CATALOGO GENERALE

GENERAL CATALOGUE

2021

OFFICINE MECCANICHE GINO NERVIANI

70 YEARS 1951/2021

Prodotti settore medicale
Medical division products

MD CLASSE

Ruote per collettività
Institutional and furniture castors

C CLASSE

Supporti autoallineanti
Self-aligning castors

SA CLASSE

Cleaning
Cleaning

CL CLASSE

Ruote gomma standard
Standard rubber wheels

1 CLASSE

Ruote antistatiche conduttive
Antistatic conductive wheels

1A CLASSE

Ruote gomma elastica
Elastic rubber wheels

2 CLASSE

Ruote gomma superelastica & pneumatica
Superelastic & pneumatic tyred wheels

3 CLASSE

Ruote in polipropilene o poliammide
Polypropilene or polyamide wheels

4 CLASSE

Ruote alte temperature
High temperature wheels

5 CLASSE

Ruote poliuretano
Polyurethane wheels

6 CLASSE

Ruote con supporti serie INOX
Stainless steel castors

INOX CLASSE

Supporti industriali
Industrial castors

S CLASSE

Prodotti speciali
Special products

SPECIALI CLASSE

Per una corretta consultazione dei fascicoli si consiglia una attenta lettura delle norme di utilizzo prodotto riportate nella prefazione. Per novità ed aggiornamenti consultate le pagine web all'indirizzo **www.nerviani.it** Tutti i dati del catalogo possono essere variati per esigenze tecniche senza preavviso. Dati e prodotti validi salvo errori tipolitografici.

We advice to read carefully the regulations of use reported in the preface, to have a correct consultation of the chapters. Visit the website ***www.nerviani.it*** *to have news and updates.*
All the information of the catalogue could be changed for technical needs without notification. Datas and products are effective except for font mistakes.

PAG. 6
CENNI AZIENDALI
HISTORICAL NOTES

PAG. 10
PRODUZIONE
PRODUCTION

PARAMETRI DI IMPIEGO PRODOTTO

- Portata dinamica del prodotto
- Tipologia dei carrelli di movimentazione
- Scorrevolezza
- Forza di traino e spunto
- Tipo di pavimentazione
- Durata e frequenza di movimentazione
- Temperatura d'impiego
- Condizioni particolari di utilizzo
- Velocità di movimentazione
- Lunghezza del percorso

SELECTION CRITERIA

- *Dynamic load capacity*
- *Type of trolley*
- *Rolling resistance*
- *Pushing force and starting force*
- *Floor condition*
- *Duration and frequency of the movement*
- *Temperature of use*
- *Special condition of use*
- *Working speed*
- *Length of the run*

PAG. 20

GUIDA
ALL'IMPIEGO
ED AVVERTENZE

- Prodotti
- Accessori
- Applicazione
- Controlli e manutenzione
- Tabella riassuntiva manutenzioni e/o controlli periodici
- Stoccaggio del prodotto

INSTRUCTIONS AND CAUTIONS

- *Products*
- *Accessories*
- *Application*
- *Periodical checks and maintenance*
- *Schedule of maintenance and/or periodical checks*
- *Stocking of the product*

PAG. 24

GARANZIA

NORMATIVE
METODI DI PROVA

WARRANTY

REGULATIONS TESTS

PAG. 27

MATERIALI IMPIEGATI
E RESISTENZA
AD AGGRESSIVI CHIMICI

MATERIALS USED AND RESISTANCE TO CHEMICAL AGENTS

QUALITÀ
TECNOLOGIA
SERVIZIO
AFFIDABILITÀ

Nel mondo della movimentazione industriale ed ospedaliera.

Sistemi di produzione integrata in due unità produttive con l'unico obiettivo di produrre articoli altamente qualitativi.

QUALITY
TECHNOLOGY
CUSTOMER
SERVICE
RELIABILITY

For industrial and medical handling.

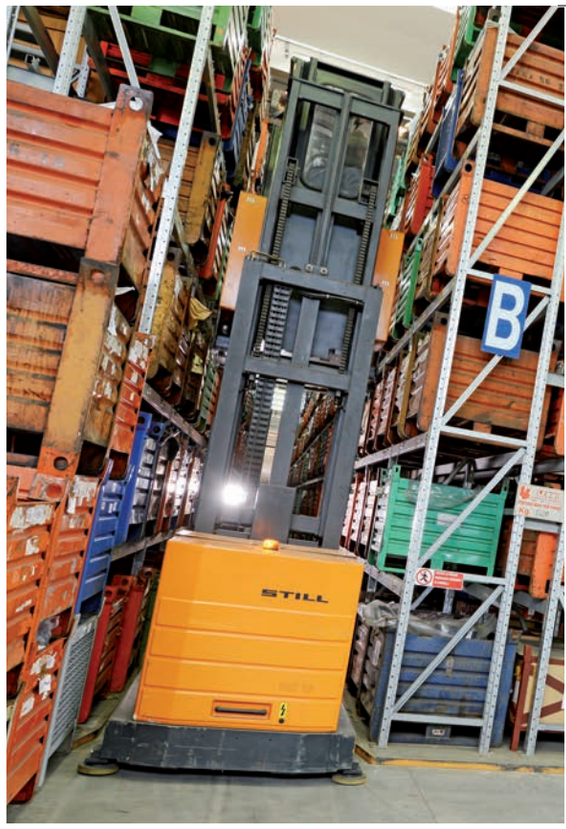
Two manufacturing plants having only one target high quality products only.

DATI IDENTIFICATIVI DEL GRUPPO:

- n° 2 unità produttive
- 39.000 mq. di superficie di cui scoperti 24.000 mq. e coperti 15.000 mq. 12.000 mq. aree dedicate alla produzione
- 8.000 mq. aree dedicate ai magazzini scorte
- 2.200 mq. aree uffici
- 37.000 articoli globali presenti a catalogo
- 10.000 articoli speciali fuori catalogo
- 78.103 item componenti fornibili
- 100 dipendenti

IDENTIFICATION:

- *n° 2 productive unites: 39.000 sm divided as follows:*
- *outdoor place: 24.000 sm*
- *indoor place: 15.000 sm*
- *production area: 12.000 sm*
- *stock warehouse: 8.000 sm*
- *offices: 2.200 sm*
- *articles into the catalogue: n° 37.000*
- *special articles out of the catalogue: n° 10.000*
- *item components: n° 78.103*
- *total employees: 100*



IERI

L'epilogo della seconda Guerra Mondiale, vide la nascita in tutta l'Europa occidentale di una miriade di piccole e medie imprese sorte dalle ceneri della distruzione che la guerra stessa aveva inevitabilmente causato.

L'Italia, con le sue piccole industrie, non di rado gestite con metodologie artigianali, fu una delle protagoniste di tale periodo contribuendo in modo determinante alla ricostruzione di una Europa dilaniata ma bisognosa di ogni tipo di bene di consumo. Fu proprio in tale periodo storico che iniziarono le loro attività le Officine Meccaniche Gino Nerviani, attingendo da una precedente esperienza avente origine negli anni 20 con la costruzione di trapani da banco, ventilatori industriali, componenti meccanici di macchine utensili e ruote per carrelli.

Gli anni successivi, e precisamente a partire dal 1951, data di inizio dell'attività di costruzione ruote e supporti per uso industriale, furono decisivi per le scelte di prodotto e orientarono la produzione in maniera articolata ma altamente specifica per tale settore. Una continua e progressiva espansione ed una maggior richiesta dei mercati contribuirono poi necessariamente alla nascita di unità produttive sussidiarie le cui caratteristiche filosofiche di base furono, ed a tutt'oggi rimangono, elasticità, adattabilità ed efficienza definendo conseguentemente l'attuale configurazione logistica della società.

YESTERDAY

Following the Second World War, a lot of small and medium size companies were founded in the whole Western Europe from the ruins of the war.

Italy, with its small industries, often managed with artisanal methods, was one of the leading countries during the reconstruction of an Europe destroyed by the war and needed of any consumer goods.

In this period Officine Meccaniche Gino Nerviani established its business based on previous experiences, since the Twenties, as manufacturer of drilling machines, industrial fans, components of machining tools and wheels for handling equipment.

Starting from 1951 Officine Meccaniche Gino Nerviani has been exclusively manufacturing wheels and castors for industrial handling and institutional equipment. The continuous growing and the requests of the market forced the company to build up other manufacturing plants where the working policy was used to be flexible and reliable. Nowadays this policy is still applied.

A sinistra:
Vecchia sede di Lonate Pozzolo
Sotto:
Unità produttiva di Oleggio

On the left:
Old headquarter in Lonate Pozzolo
Below:
Manufacturing unit in Oleggio

OGGI

Con sede principale in Pombia (NO) e con stabilimento sussidiario in Oleggio (NO), le Officine Meccaniche Gino Nerviani risultano oggi strutturate in 2 unità produttive per un totale di circa 29.000 mq.

Sistema qualità
Le Officine Meccaniche Gino Nerviani al fine di meglio interpretare le esigenze presenti e future del mercato, hanno adottato il modello di gestione per la qualità conforme alla UNI EN ISO 9001 in modo da poter soddisfare ogni tipo di requisito mirando inoltre a superare le aspettative stesse. La Società risulta inoltre attualmente iscritta all'ANIMA (Federazione delle Associazioni Nazionali dell'Industria Meccanica Varia ed Affine) ed opera nell'ambito di tale Associazione tramite l'U.C.I.R. (Associazione Costruttori Italiani di Ruote).

Da giugno 2009 un nuovo piano di sviluppo industriale ha potuto introdurre, mediante un riassetto organizzativo globale, un notevole ampliamento della gamma di produzione riuscendo a proporre al mercato articoli sempre più affini e strutturati in modo specifico per poter coprire ogni esigenza di movimentazione interna industriale, per collettività ed ospedaliera.

Il nuovo "asset" organizzativo oggi verte congiuntamente su due punti:
A) Ampliamento societario aziendale con l'acquisizione di due nuove aziende di settore.
B) Implementazione ed incremento della gamma prodotti mirante alla copertura globale delle necessità di mercato.

Profilo prodotti del gruppo:
- ruote e supporti ad uso logistico industriale.
- ruote e supporti ad uso ospedaliero e per portatori di handicap.
- ruote e supporti per arredamento e collettività.
- particolari tecnici in gomma, anelli, ruote e rivestimento corpi ruota in alluminio, ghisa e acciaio con gomma e poliuretano, con mescole di propria formulazione o su specifica Cliente.
- anelli pieni e pneumatici per carrelli elevatori.
- ruote e supporti speciali per utilizzi particolari.

La commercializzazione dei prodotti utilizza una rete di distribuzione capillare che tramite venditori specializzati opera in tutto il mondo, rendendo la "Nerviani Technology", per l'elevata qualità del prodotto e la grande affidabilità di servizio, società leader di settore.

TODAY

The headquarter in Pombia (NO) and a subsidiary plant, located in Oleggio (NO), represent an approx. total manufacturing area of 29.000 square meters.

A new industrial development plan became effective from June 2009. The company had been completely reorganized and the production and marketing products range have been expanded. Thanks to that, we can offer to the market even more improved items and personalized ones to comply with the different needs of the industrial, institutional and hospital handling.

The new set up consists in:

A) Enlargement of the corporate base through the acquisition of two companies operating in the field.
B) Implementation and enlargement of the products range directed towards covering global market demand.

Items profile and services of the group:

- *wheels and castors for industrial handling;*
- *wheels and castors for hospital use and handicap chairs for disabled people's fitting out;*
- *wheels and castors for institutional applications;*
- *rubber technical details such as rings, wheels and aluminium/steel/cast iron rims coated with rubber and polyurethane rings, composed by mixtures created by our company;*
- *full rings and pneumatic wheels for forklift trucks;*
- *special wheels and castors for particular uses on request;*

The products are distributed worldwide by a network of specialized dealers and Officine Meccaniche Gino Nerviani is a leading company in the business of castors & wheels for industrial applications due to the high quality of the goods and the first class Customer's service.

Quality control system

The last introduction of a strict quality control system "in accordance with UNI EN ISO 9001" is another commitment to continuously improve the offered standard quality and to match any customer's request.

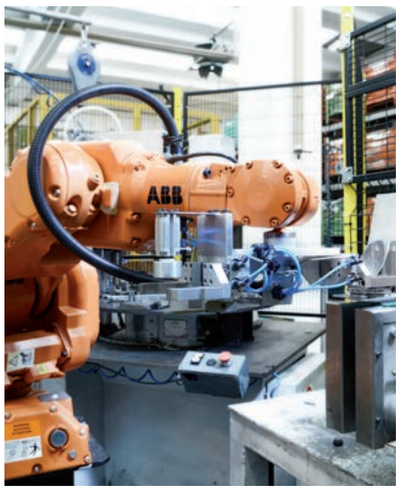
Officine Meccaniche Gino Nerviani is also enrolled as a member of ANIMA (Federazione delle Associazioni Nazionali dell'Industria Meccanica Varia e Affine) and within this Association, it is a part of U.C.I.R. (Italian Association of Wheels Manufacturers).

PRODUZIONE

L'attuale produzione comprende ruote di piccolo diametro e modesta portata adatte a collettività, ruote per impiego ospedaliero e prodotti sia di piccolo che di grande diametro con medie ed alte capacità di carico, destinati ad impieghi specifici o gravosi.

Filosofia industriale di base è inoltre lo sviluppo e l'industrializzazione di prodotti particolari su specifica richiesta dei Clienti, articoli studiati e collaudati in partnership con i richiedenti.
Questi prodotti particolari, pur non essendo illustrati nel presente catalogo generale, sono catalogati in appositi verbali di fattibilità indicanti in maniera chiara ed inequivocabile le caratteristiche e modalità di impiego di tali materiali. I dati raccolti in apposito archivio elettronico, costituiscono patrimonio tecnologico della Nerviani che viene continuamente aggiornato, sviluppato ed utilizzato per soddisfare le più svariate esigenze di mercato.

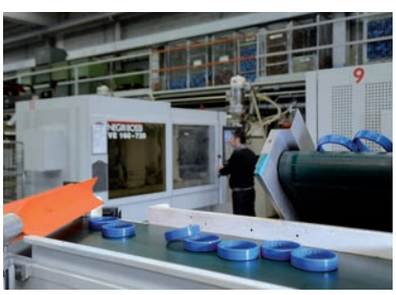
Le caratteristiche tecniche dei prodotti presenti nella gamma sono oggi tali da poter risolvere i molteplici problemi di movimentazione interna che la moderna logistica richiede.



PARAMETRI D'IMPIEGO

Le soluzioni di problemi particolari e la risposta alle esigenze più disparate nascono sempre da una seria analisi delle problematiche d'impiego e da valutazioni ben ponderate, effettuate talvolta presso lo stesso utilizzatore.

Una seria riflessione sui problemi della movimentazione interna consente il recupero di efficienza nei flussi logistici dei materiali, quindi in ultima analisi una radicale e sovente drastica riduzione dei costi di gestione della logistica.



Naturalmente tutto ciò è possibile se la scelta dell'elemento adatto viene effettuata con cognizione tenendo presente i principali parametri di base che consentono l'identificazione dell'esatto tipo di prodotto da impiegare.

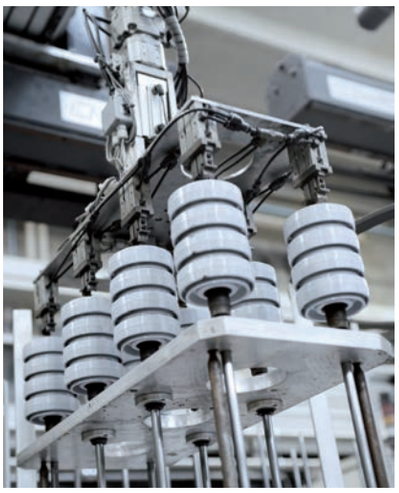
Tali parametri essenziali possono essere identificati e definiti come segue:

- **Portata dinamica del prodotto.**
- **Tipologia dei carrelli di movimentazione.**
- **Scorrevolezza.**
- **Forza di traino e spunto.**
- **Tipo di pavimentazione.**
- **Durata e frequenza della movimentazione.**
- **Temperatura d'impiego.**
- **Condizioni particolari di utilizzo.**
- **Velocità di movimentazione.**
- **Lunghezza del percorso.**

L'analisi di tali parametri di impiego può risultare in molte situazioni soggettiva e personale, ma in ogni caso necessaria per l'esatta scelta del tipo di prodotto da impiegare. Il nostro Ufficio Tecnico è comunque a disposizione per fornire opportuni consigli e suggerimenti per la soluzione di tali problematiche.

PRODUCTION

The current production range is from small diameter and low load capacity wheels suitable for use on institutional equipment, wheels for hospital equipment to special products with small and big diameters, medium and high load capacity for extra heavy duty applications.



Our policy is also the development and the manufacturing of special products according to specific Customer's need.

Even if these special products are not showed in this catalogue, they are normally classified on reports showing all the necessary technical information.

All the reports are settled in electronic files that represent our knowhow and they are continuously upgraded, developed and applied in order to meet customers' requirements. Technical features of the standard articles in our production range are already suitable to solve all the request for handling equipment and industrial handling.

SELECTION CRITERIA

Solutions to special problems and different needs are achieved by an accurate evaluation of the conditions of use.

This analysis is sometimes carried out directly at the End User's site. A serious investigation about the problems of internal handling makes possible to recover efficiency and consequently to have a considerable reduction of the management costs. Of course, to reach this goal, the product should be selected based on a correct identification of the most important parameters of use.

Such essential parameters can be identified and defined as follows:

- ***Dynamic load capacity.***
- ***Type of trolley.***
- ***Rolling resistance.***
- ***Pushing force and starting force.***
- ***Floor condition.***
- ***Duration and frequency of the movement.***
- ***Temperature range.***
- ***Special conditions of use.***
- ***Working speed.***
- ***Length of the run.***

Even if the analysis of such parameters can often be interpreted personally, it is essential to select the correct type of product to use. Our Technical Department is always available to suggest you a proper choice.

PORTATA DINAMICA DEL PRODOTTO

Occorre considerare per la determinazione di questo valore la somma del carico da trasportare ed il peso proprio del mezzo di trasporto.

La portata per ogni prodotto chiaramente indicata sul presente catalogo è il valore massimo espresso in daN. a cui una ruota o un supporto con ruota può essere sottoposto senza pregiudicare il buon funzionamento del mezzo di trasporto al quale è vincolato. Una volta determinato il valore totale da movimentare, una valutazione più approfondita deve essere assolutamente effettuata prima di assegnare il carico unitario definitivo ad ogni singola ruota o supporto con ruota. Possono verificarsi condizioni instabili e/o dinamiche del carico trasportato dal mezzo di movimentazione quali una non uniforme distribuzione sul pianale di carico, o l'utilizzo del mezzo su rampe inclinate che necessariamente variano i valori dei carichi dinamici agenti sulle ruote e/o supporti. La pavimentazione potrebbe essere non sufficientemente livellata o in cattivo stato di manutenzione ed in tal caso tutti i complessivi supporti con ruota non lavorerebbero contemporaneamente a contatto con il suolo. Le immagini forniscono un esempio di calcolo semplificato per la determinazione della portata di ogni singola ruota in funzione della tipologia dei carrelli complanari usualmente più utilizzati.
Una volta determinato il carrello tipo ed il relativo valore del carico dinamico che dovrà sopportare, è indispensabile incrementare il valore di tale portata di almeno il 30% come coefficiente di sicurezza.

DYNAMIC LOAD CAPACITY

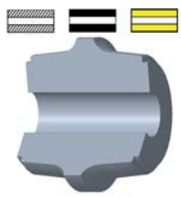
Total load capacity is determined by adding the applied load to the weight of the trolley.
*The capacity of each product stated in this catalogue is the maximum value in daN to which a wheel or a castor can stand without prejudice for the good operation of the means of transport. After determining the total load capacity a further evaluation should be absolutely carried out before fixing the correct load to each wheel or castor. An unbalanced or a dynamic distribution of the load on the trolley might happen or the trolley might be used on inclined ramps; these conditions necessary change the dynamic load of the wheel or/and the castor. The floor condition could be unflatted or in a bad state of maintenance and in this case all the assembled castors would not work in contact with the floor at the same time. Pictures shows a simple method to calculate the capacity of each wheel in relation to the most used types of coplanar trolleys. Once the type of trolley and the relative value of the dynamic load is selected, it is necessary to increase the calculated load capacity of min.
a 30% as safety factor.*

TIPOLOGIA MOZZI RUOTA

WHEEL HUB TYPE

FORO PASSANTE

Foro passante codice mozzo ruota A
Boccola autolubrificante codice mozzo ruota B
Boccola in bronzo sinterizzato codice mozzo Z

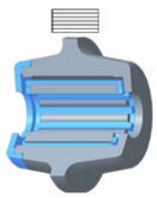


PLAIN BEARING

Plain bore : code A
Self-lubricating bush : code B
Syntherized bronze bushing : code Z

GABBIA A RULLI

Gabbia e rulli standard codice mozzo ruota R
Gabbia e rulli inox codice mozzo ruota X

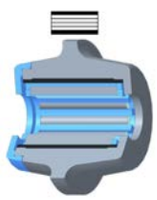


ROLLER BEARING

Roller bearing : code R
Stainless steel roller bearing : code X

GABBIA A RULLI CON PISTA SCORRIMENTO IN ACCIAIO

Gabbia e rulli standard con pista scorrimento in acciaio codice mozzo ruota E
Gabbia e rulli inox con pista scorrimento in acciaio inox codice mozzo ruota W



ROLLER BEARING WITH STEEL TUBE

Roller bearing with steel seat : code E
Stainless steel roller bearing with stainless steel seat : code W

MONO CUSCINETTO A SFERE

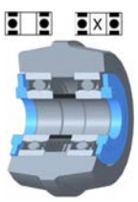
Singolo cuscinetto a sfere codice mozzo ruota M
Singolo cuscinetto a sfere inox codice mozzo ruota C.

SINGLE BALL BEARING

Single ball bearing : code M
Stainless steel single ball bearing : code C

DOPPI CUSCINETTI A SFERE

Doppi cuscinetti a sfere schermati codice mozzo ruota K
Doppi cuscinetti a sfere tenuta stagna codice mozzo ruota T
Doppi cuscinetti a sfere inox codice mozzo ruota C



BALL BEARING

Double ball bearings 2RS : code K
Waterproof double ball bearings : code T
Double ball bearings in stainless steel : code C

SEDE CUSCINETTI A SFERE

Ruote senza cuscinetto a sfere codice mozzo L.

WHEEL WITHOUT BALL BEARINGS

Wheel without ball bearings : code L

TIPOLOGIA DEI CARRELLI DI MOVIMENTAZIONE

TYPE OF TROLLEY

SOLUZIONE A: n°1 supporti pivottanti n°2 supporti fissi

Questo tipo di montaggio può essere adottato unicamente per carrelli di piccole dimensioni e con carichi modesti. La manovrabilità risulta buona, il carico dovrà essere posizionato sul baricentro per non compromettere la stabilità del carrello.

SOLUTION A : n°1 swivel castor n°2 fixed castors

This arrangement can be only applied on small trolleys and light loads. Maneuverability is good. The load should be balanced on the center line in order to guarantee the stability of the trolley.

SOLUZIONE B: n°2 supporti pivottanti n°2 supporti fissi

Montaggio preferibilmente usato per carrelli con buona capacità di carico e quando specificatamente esiste il problema della manovrabilità in presenza di spazi limitati o notevolmente ristretti. Soluzione ottimale per traino meccanico con più carrelli accoppiati a rimorchio.

SOLUTION B: n°2 swivel castors n°2 fixed castors

This arrangement is the most pratical configuration for trolleys with good load capacity and when manoeuvrability is requested in limited or restricted areas. The best solution for mechanical trailing of several coupled trolleys.

SOLUZIONE C: n°4 supporti pivottanti

Risulta essere il tipo di montaggio più diffuso in quanto consente di avere una discreta capacità di carico unitamente ad una buona manovrabilità del carrello. Risulta difficoltoso lo spunto per la trazione nel caso di disposizione delle staffe girevoli in senso contrario a quello di marcia.

SOLUTION C: n°4 supporti pivottanti

This is the most widely applied castor arrangement. In fact, it allows both good load capacity and good manoeuvrability of the trolley. Starting force could be quite high if swivel forks are opposite to run direction.

SOLUZIONE D: n°2 supporti pivottanti n°2 supporti fissi

Con questa soluzione si riesce ad ottenere un'ottima manovrabilità ed una buona capacità di carico. Il peso totale va suddiviso sulle due staffe fisse in quanto il mezzo di trasporto lavora a bilico. E' determinante quindi la scelta del tipo di ruota fissa centrale.

SOLUTION D: n°2 swivel castors n°2 fixed castors

This solution provides optimum manoeuvrability and good load capacity. Total weight should be balanced on the two fixed castors as the trolley has to centrally pivot. The choice of the correct type of fixed wheel is essential.

SOLUZIONE E: n°4 supporti pivottanti n°2 supporti fissi

La presenza di forti carichi o la necessità di movimentare particolari molto lunghi suggerisce la scelta di questa soluzione. Occorre comunque rammentare che la manovrabilità di un carrello adottante tale soluzione risulta sempre difficoltosa a causa del passo abbastanza elevato fra le ruote, anche se, per effetto del basculamento, risulta sicuramente essere la migliore.

SOLUZIONE E: n°4 swivel castors n°2 fixed castors

This solution should be applied when the need is to move heavy loads or very long trolleys. However remind the manoeuvrability of a trolley equipped with this solution is always difficult because of the long distance among the wheels, even if it remains the best one due to pivoting.

Supporto girevole - ***Swivel castor:***

Supporto fisso - Fixed castor:

Qf Portata dei supporti fissi in daN *Load capacity of the fixed castors in daN*

Qg Portata dei supporti pivottanti in daN *Load capacity of the swivel castors in daN*

Nf N° dei supporti fissi *N° of fixed castors*

Ng N° dei supporti pivottanti *N° of swivel castors*

P Carico applicato al baricentro del carrello in daN *Load capacity of the trolley gravity center in daN*

T Tara del carrello comprensivo di supporti in daN *Gross weight of the trolley including castors in daN*

SCORREVOLEZZA

Le Officine Meccaniche Gino Nerviani considerano il fattore di scorrevolezza una variabile estremamente importante per una corretta scelta della ruota, ma vista la carenza di appropriata bibliografia su tale argomento, in accordo con definizioni simili in altri settori d'impiego, definiscono la scorrevolezza come la capacità di un corpo di scorrere lungo un piano sollecitato da una forza F ad una velocità V.

Il suo valore è in funzione del carico applicato, della velocità di scorrimento, della larghezza della fascia, del diametro, della durezza della ruota e del tipo di organo di rotolamento del mozzo; della temperatura di utilizzo, del tipo di pavimentazione (rugosità, coefficiente d'attrito, durezza della pavimentazione), della eventuale presenza di lubrificanti ed infine della natura del battistrada.

La scorrevolezza quindi è un parametro caratteristico della ruota e definibile una volta fissate le variabili sopra elencate. In generale si può ritenere che pavimentazioni in ottimo stato suggeriscono l'utilizzo di ruote con battistrada con durezze maggiori di 90 Sh.A, mentre pavimentazioni in pessime condizioni impongono scelte rivolte a ruote con battistrada in gomma elastica o pneumatiche. Organi di rotolamento del mozzo quali cuscinetti a sfere o a rulli offrono sicuramente prestazioni migliori che semplici alesaggi passanti o boccole di scorrimento, poiché abbassano drasticamente il valore della spinta e dello spunto da applicare al mezzo per il suo avanzamento. Pur non esistendo una normativa ben precisa riguardante la determinazione ed il valore accettabile di scorrevolezza per ogni singolo prodotto, si può in ogni caso affermare che una ruota e/o supporto con ruota ha un valore di scorrevolezza accettabile qualora lo sforzo massimo da applicare ad un carrello lavorante su pavimentazione piana ed in cemento liscio non superi il valore massimo di 15 daN (5 daN per ruota) per mantenere il medesimo in movimento. Tutto questo si può basare sugli studi di tipo psicofisico di Snook e Ciriello, sulle valutazioni delle azioni di trasporto in piano per carichi manuali, ed nel rispetto delle normative sull'igiene e sicurezza del lavoro.

FORZA DI TRAINO E SPUNTO

Per movimentare un carrello occorre applicare una forza di trazione perché lo stesso possa spostarsi nella direzione scelta. Tale forza, che si può immaginare applicata al baricentro della massa da movimentare, assume due valori particolari ben distinti e può essere identificata in due fasi: Forza di traino e Forza di spunto.

Viene normalmente definita come Forza di traino la forza necessaria a mantenere in movimento a velocità costante un mezzo di trasporto. Un impiego continuo o comunque abbastanza frequente deve indirizzare la scelta su di un prodotto con ottime caratteristiche di scorrevolezza affinchè i valori di spunto (di seguito specificati) e traino siano accettabili. Non solo quindi va considerato come determinante per la scelta il valore della massima capacità di carico necessaria. L'indirizzo verso ruote di grande diametro con organi di rotolamento adeguati consente di rimanere entro un valore di traino per ruota di 3-3,5 daN, valore ottimale per un utilizzo accentuato o continuo. L'ottimizzazione di tale scelta potrà essere sicuramente verificata contattando l'U.T. della Nerviani che potrà fornire tutti i ragguagli del caso ed indirizzare l'Utilizzatore verso la soluzione più confacente all'impiego. La Forza di spunto è invece il valore massimo da applicare al mezzo di movimentazione affinché possa passare dallo stato di quiete a quello di moto. Minore è il tempo che si desidera nella transizione fra i due stati, maggiore è la forza da applicare affinché la velocità di traslazione del mezzo si stabilizzi. La forza da applicare comunque è in correlazione alle diverse condizioni di utilizzo, che possono variare anche per lo stesso carrello in funzione di molte variabili tra cui le più importanti sono:

A. posizionamento angolare dei supporti con ruota rispetto alla direzione di marcia.
B. tipologia del carrello e dei supporti con ruota montati.
C. tipo e qualità dei componenti del sistema di pivottamento dei supporti.
D. tipo e qualità dei componenti della rotazione dei mozzi ruota.
E. temperatura e condizioni ambientali.
F. tipo di pavimentazione.
G. complanarità della pavimentazione.
H. stato ed usura dei battistrada delle ruote.
I. stato ed usura dei componenti dei supporti pivottanti.

Ad ogni buon conto può essere assunto come forza di spunto il valore della forza di traino aumentato del 30%. Questo dato è stato ricavato statisticamente dai risultati di svariati test effettuati dal nostro. Ufficio Prove che sistematicamente rileva tali valori per poter garantire una qualità costante di prodotto.

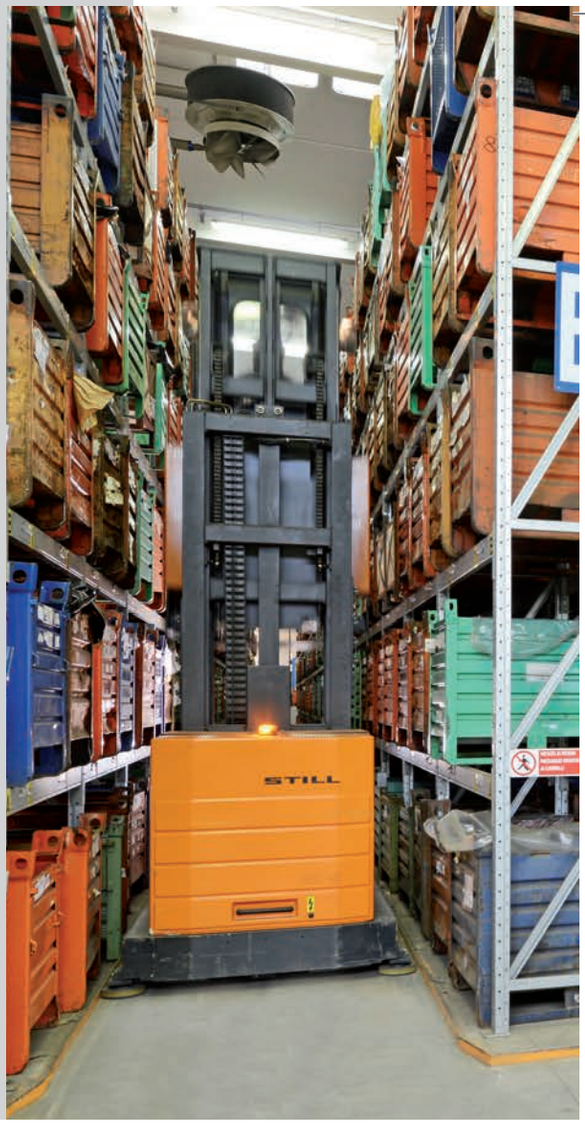
ROLLING RESISTANCE

Officine Meccaniche Gino Nerviani considers the rolling resistance as an extremely important variable for the correct choice of the wheel, but considering the limited information about this matter, and in accordance with equivalent definition in other applications, we can define the rolling resistance as the capacity of the body to roll on the surface subjected to force F and a velocity V.

Its value is in relation to the applied load, the speed of running, the width, the diameter and the tread hardness of the wheel, the type of bearing, the temperature of use, the floor condition (roughness, friction coefficient, hardness), the possible presence of lubricants and the type of wheel. The rolling resistance is a parameter of the wheel and it can be defined only with the knowledge of the above variables.

In general wheels having hardness more than 90 Sh.A can be used for very good floor conditions, while bad floorings oblige to select elastic rubber or pneumatic tyres. Type of bearings such as ball bearing or roller bearings have better performances than plain bearings or bushes and they highly reduce the necessary effort for starting and pushing the trolley. Although of it doesn't exist norms regarding the calculations and the acceptable value of rolling resistance, it's possible to say that a wheel or/and a castor has an acceptable value of rolling resistance if the maximum force, applied to a trolley working on an even floor in concrete, doesn't exceed the maximum value of 15 daN (5 daN per each wheel) for keeping the trolley running.

The above is based on the study of Snook and Ciriello, the analyses of movement for handpushed equipment and in accordance to the norms of hygiene and safety at work.



PUSHING FORCE STARTING FORCE

A pushing force has to be applied to a trolley in order to let it move in the force direction. This force, applied to the gravity center, has two different values and can be identified in two steps:
Pushing force Starting force

The pushing force is necessary to keep the trolley moving at a constant speed. A continuous or frequent use of the handling equipment should suggest the choice of a product with very low rolling resistance in order to have acceptable values of the pushing force and starting force.

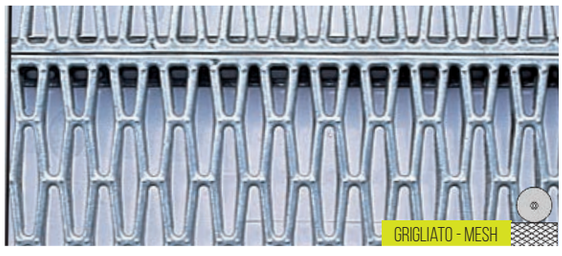
Therefore the total load capacity is not the only necessary parameter. Wheels of big diameters and high quality bearings allow to remain within a range of pushing force of 33,5 DaN per wheel, which is an optimum value for frequent or continuous use. Our Technical Department is always available to suggest you a proper choice.

The starting force is the maximum value to apply on the trolley in order to pass from a state of rest to a state of motion. Smaller it is the time of transition between the two states, higher it will be the force to apply for keeping the trolley moving at constant speed.

However this force is in relation to the different conditions of use, they can be different even for the same trolley due to various factors and the most important are the following:

A. orientation of the castors in relation with the movement direction.
B. type of trolley and castors.
C. type and quality of swivel components.
D. type and quality of the bearing of the wheel.
E. temperature and environmental conditions.
F. floor condition.
G. planarity of the floor.
H. wearing of the tread of the wheels.
I. wearing of the components of the swivel castors.

For the above the starting force is calculated as the value of the pushing force increased by 30%. This value is statistically achieved by the results of the tests carried out by our Quality Department in order to be able to guarantee a constant quality of product.



PAVIMENTAZIONE

È un altro dei fattori determinanti nella scelta del corretto tipo di ruota da impiegare. Occorre tenere presente che il valore della portata nominale è riferito, facendo capo alle normative internazionali attualmente in vigore, ad un impiego su pavimenti lisci, compatti ed in buono stato di manutenzione.

Pavimenti dissestati in cemento, asfalto, grigliati e comunque irregolari devono indirizzare l'utilizzatore ad una scelta verso ruote con battistrada in gomma elastica o pneumatica, con il maggior diametro possibile unitamente ad una fascia di rotolamento più larga, in modo tale da contenere la pressione specifica a terra entro valori sufficientemente ridotti. Tale scelta consente di non sovraccaricare gli organi di rotolamento del prodotto non compromettendone quindi la durata e la normale utilizzazione.

Pavimentazioni regolari e delicate come gres, ceramiche o similari, devono indirizzare la scelta verso prodotti con battistrada in poliuretano o gomme elastiche. Infine pavimentazioni in materiali duri e compatti possono consentire l'uso di ruote con battistrada rigido come poliammidi, resine fenoliche o similari.

In ogni serie di ruote illustrate sul presente catalogo generale, sono fornite indicazioni schematiche per la scelta della tipologia di prodotto da impiegare in funzione di tale variabile.

DURATA E FREQUENZA DI MOVIMENTAZIONE

Questo parametro riveste particolare importanza qualora la movimentazione del mezzo di trasporto abbia una frequenza ed una durata elevata in relazione al normale tempo di lavoro.

FLOOR CONDITION

It is another essential factor for the selection of the correct type of wheel. It should be reminded the load capacity is rated, according to the international norms, for an use on smooth, solid and well maintained floor.

Concrete, mesh or asphalt floorings, which are damaged or uneven, it should suggest to the user to select elastic or pneumatic rubber tyred wheels, having the possible bigger diameter and wider tread in order to keep the specific pressure on the floor within acceptable values. This choice allows to not overload the bearing and, consequently, the lasting and the normal use of the product is not reduced.

Smooth and even floorings such as gres, ceramic tiles or similar should suggest to select wheels with polyurethane tread or elastic rubber tyres. Hard and solid floorings allow to use solid wheels such as nylon wheels, phenolic wheels and similar.

Some suggestions for the selection of the right type of product are showed at the bottom of page for each series of wheels of this general catalogue.

DURATION AND FREQUENCY OF MOVEMENT

This parameter is particularly relevant if the trolley has to be frequently moved and for a time longer than a standard working one.

TEMPERATURA D'IMPIEGO

La normale temperatura d'impiego delle ruote e dei supporti è generalmente compresa fra + 5°C e + 40°C.

Tuttavia, data l'influenza di tale parametro per il corretto e normale utilizzo del prodotto, ad ogni pagina di presentazione della serie di ruote sono indicati i valori minimi e massimi di temperatura accettabili. **In casi straordinari e con temperature di utilizzo diverse dagli standard abituali, vengono impiegati lubrificanti particolari per gli organi di rotolamento e/o materiali specifici compatibili per tali condizioni.**

CONDIZIONI PARTICOLARI DI UTILIZZO

Pur considerando che le condizioni ambientali standard di utilizzo dei prodotti elencati sul presente catalogo sono:

- **temperatura d'impiego (+5°C ÷ +40°C)**
- **umidità relativa (40% ÷ 80%)**
- **aggressivi fisico/chimici (assenti)**

tenendo tuttavia presenti i valori minimi e massimi di temperatura accettabili come specificatamente riportato, occorre tenere nella giusta considerazione alcune caratteristiche d'impiego particolari. Ambienti ad alta aggressività chimica, pavimentazioni con presenza permanente di residui industriali quali scorie, trucioli di acciaio o altri componenti che potrebbero deteriorare in breve tempo i materiali che compongono il battistrada del prodotto scelto, incidono in maniera negativa sulla durata.

È opportuno quindi valutare attentamente tali condizioni, e a questo proposito è stata inserita in questo catalogo una tabella indicativa di compatibilità chimica con i materiali utilizzati nella costruzione delle ruote e dei supporti.
Nel caso inoltre occorra utilizzare prodotti aventi caratteristiche di conducibilità elettrica o di antistaticità, i prodotti GN sono verificati riferendosi alle norme UNI EN 12527 - UNI EN 12532 in accordo con la UNI ISO 2878 dove una ruota è definita come conducibile se la resistenza misurata è $\leqslant 10^4\Omega$, mentre viene definita antistatica se la resistenza misura è compresa tra $10^5\Omega$ e $10^7\Omega$. La misurazione di tale valore va effettuata tramite un opportuno tester per la misura dell'isolamento e resistenza elettrica con tensione a circuito aperto di 500 V.c.c. e con impedenza interna tale che il voltaggio in uscita non cada sotto i 40 V.c.c. La misurazione deve essere eseguita con il supporto e la ruota caricati con una portata pari al 5÷10% del carico nominale.

TEMPERATURE RANGE

Working temperature of wheels and castors is generally in a range between + 5°C and + 40°C.

Nevertheless, due to the relevant influence of this parameter for a correct and normal use of the product, the minimum and the maximum acceptable working temperature is showed at the bottom of page for each series of wheels.

Special lubricants and/or compatible materials are used for special applications at working temperature different from the standard ones.

INSTRUCTIONS FOR SPECIAL CONDITION

In this catalogue we have considered as standard environmental conditions of use for the products the following ones:

- ***working temperature (+5°C ÷ +40°C)***
- ***relative humidity (40% ÷ 80%)***
- ***physical and chemical agents (absent)***

However, unflatted in the stated working temperature range, it's important to consider some special conditions of use. Environment with aggressive chemicals, floorings permanently dirty of industrial scraps such as wastes, steel chips or other materials which could damage the tread of the wheel, affect the normal working life of the product.

These parameters should be carefully evaluated and for this purpose this catalogue contains an indicative table of chemical resistance of the materials used in manufacturing our wheels and castors. In case of application of products requiring antistatic properties, the GN products are checked in accordance to the norm UNI EN 12527 - UNI EN 12532 according to UNI ISO 2878 where a wheel is conductive if the measured resistance is $\leqslant 10^4\Omega$ while it is antistatic if the measured resistance is within $10^5\Omega$ and $10^7\Omega$.
The measurement of this value is carried out by a device suitable to measure the electric resistance with an open circuit of 500 V.c.c. and having an inner impedance to keep the outlet voltage over the 40 V.d.c. The measurement is performed with castor charged at 5 ÷10% of the load capacity.

NORME DI SICUREZZA

La conduttività elettrica di ruote e anelli può variare in presenza di fattori esterni di tipo chimico o meccanico, che possono modificare la struttura esterna variando la conduttività elettrica di progetto. In particolare polvere, sporco, vernici, acidi, soluzioni basiche, eccessivi carichi o urti possono diminuire o interrompere completamente la messa a terra della corrente elettrica anche di origine elettrostatica. In considerazione del fatto che i nostri prodotti una volta in servizio possono essere soggetti a condizioni d'uso a noi sconosciute, la nostra garanzia di conduttività elettrica è applicabile solo a ruote nuove nelle condizioni di spedizione. La verifica delle condizioni di sicurezza, ad esempio test della conduttività delle ruote dopo il montaggio e durante l'uso, è esclusiva responsabilità dell'utilizzatore.

VELOCITÀ DI MOVIMENTAZIONE

Poiché le ruote lavorano a contatto del terreno, il carico applicato genera pressioni specifiche e temperature elevate sul battistrada della ruota e sulla componentistica del prodotto in funzione della velocità di movimentazione. È quindi opportuno valutare attentamente anche questo parametro. La produzione standard è indirizzata verso ruote per movimentazione manuale, con velocità massima di utilizzo di 4 Km/h. pari a 1,1 m/s.

Eventuali velocità superiori comportano obbligatoriamente una diminuzione della portata, fenomeni di incremento delle temperature degli organi di rotolamento e delle masse costituenti i componenti del prodotto, generazione del fenomeno di sbattimento del supporto (conosciuto col termine tecnico inglese di "shimmy").

Consigliamo quindi in tali casi di contattare il nostro personale tecnico per la verifica dell'idoneità del prodotto scelto.

LUNGHEZZA DEL PERCORSO

L'utilizzo standard delle ruote e dei supporti per movimentazione manuale comporta generalmente un impiego su percorsi brevi, ma in qualche caso specifico si presenta la necessità di utilizzo su lunghi percorsi. In tal caso, è preferibile utilizzare ruote di diametro maggiore rispetto a quello ottenuto dalla valutazione dei precedenti parametri.

Si ottiene così un risultato migliore sia per lo sforzo fisico che deve impiegare l'operatore del mezzo di trasporto sia per la durata del prodotto, in quanto, ovviamente, maggiore è il diametro di ruota impiegato, minore risultano sia le sollecitazioni che il consumo del battistrada.

SAFETY NOTE

The electrical conductivity of wheels and wheel treads may be affected by foreign body deposits as well as by chemical and mechanical causes, in such a way that the permissible values set by the standards may be exceeded. In particular dust, dirt, paints, acids, caustic solutions, excessive and shock loads can lead to a diminished, or even completely interrupted, discharge of electric/ electrostatic energy to the floor. Because our products, once they are in service, may be subject to a wide range of factors unknown to us, our warranty for electrically conductivity can only apply to new wheels as delivered insofar as the permissible values set by the standards are concerned. Constant supervision of safety regulations, e.g. testing the conductivity of the wheels after mounting and in use, remains the exclusive responsibility of the user.

WORKING SPEED

As the wheels are always in contact with the floor, the applied load produces high specific pressure and temperature on the tread of the wheel and other components due to the working speed. This parameter should b e also subjected to a careful evaluation. Standard wheels are used for manual operation having a maximum working speed of 4 KPH, equivalent to 1.1 m/s. Possible higher speed fixes a reduction of the load capacity, an increasing of the temperature of the bearings and the components, and it can determine a shimmy effect. For this reason, we recommend to contact our Technical Department for checking the right selection.

LENGTH OF THE RUN

Standard use of wheels and castors for hand-pushed equipment normally requires short runs but, sometimes, the need is for longer paths.
In these cases they suggest to use a wheel having a bigger diameter than the evaluated one based on the previous parameters .

You will achieve a better result both for the requested effort by the operator and the product life; in fact, a bigger diameter of the wheel reduces both the stress and the wearing.

GUIDA ALL'IMPIEGO ED AVVERTENZE

L'Utilizzatore è tenuto ad osservare ed applicare tutte le raccomandazioni qui di seguito elencate affinché possa utilizzare in sicurezza tutti i prodotti elencati nel presente catalogo. L'inosservanza e la non applicazione dei punti seguenti determinano inevitabilmente lo scadere di ogni tipo di garanzia sul prodotto. Di conseguenza si suggerisce:

PRODOTTI

Le ruote ed i relativi supporti con ruota illustrati nel presente catalogo sono specificatamente studiati per movimentazione di tipo manuale e per velocità di lavoro massima di 4 Km/h.

In alcuni casi, come riportato in calce alle pagine di introduzione di ogni serie di ruote, è consentito il traino meccanico, sempre che la velocità di lavoro non superi il dato riportato e vengano rispettati i tempi di utilizzo indicati. Il singolo supporto invece, è collaudato in conformità alle normative: **UNI EN 12527 UNI EN 12532.** Qualora dei prodotti o componenti debbano essere utilizzati in modo diverso, si consiglia di contattare il nostro U.T. per maggiori dettagli.

ACCESSORI

In taluni casi e per impieghi particolari, nonché per normative riguardanti la sicurezza d'impiego, vengono utilizzati dispositivi aggiuntivi al complessivo ruota e supporto comunemente denominati freni.

Tali dispositivi vanno intesi come freni di stazionamento e -qualora assemblati su un carrello- è buona norma utilizzarli unicamente su pavimentazioni piane con inclinazione massima non superiore al 3,5 %.
In ogni caso il mezzo di movimentazione che utilizza questi dispositivi deve essere provvisto di almeno una coppia di tali sistemi che devono essere azionati contemporaneamente per garantirne l'utilizzo in sicurezza.

In nessun caso possono essere impiegati durante il movimento del mezzo o per ridurre la velocità del medesimo.

APPLICAZIONE

È necessario attenersi alle seguenti prescrizioni durante il montaggio dei supporti o delle ruote al mezzo di movimentazione:

A. controllare con cura la planarità e la geometria del mezzo sul quale devono essere montate le ruote e/o i supporti con ruota, assicurandosi dell'esatto dimensionamento degli attacchi predisposti per il montaggio delle ruote e/o supporti con ruota.

B. evitare nel modo più assoluto l'unione del supporto al mezzo di movimentazione mediante saldatura, ma utilizzare i sistemi di fissaggio meccanico per cui è stato predisposto il prodotto, assicurandosi che il medesimo sia assolutamente solidale al pianale portante del mezzo.

C. i supporti devono essere perfettamente ortogonali al pianale del mezzo di trasporto ed essere posizionati in maniera assolutamente parallela al senso di marcia del medesimo.

GENERAL USE INSTRUCTIONS AND WARNINGS

The End User must observe and apply all the recommendations here below listed so he can safely use all the products of this catalogue.
The non-observance and the not appliance of the following items consequently determine the expiration of each type of warranty on the product. For the above we suggest:

PRODUCTS

Wheels and castors stated in this catalogue are expressly designed for manual operation at a maximum working speed of 4 KPH. *In some cases, as indicated at the bottom of the page for each series of wheels, mechanical trailing is allowed in accordance to the stated speed limit and working time.*
Forks are tested in accordance to the UNI ENI 12527 and ***UNI EN 12532*** *Norms.*

If some products or components must be used in different conditions, we recommend to contact our Technical Department for further details.

ACCESSORIES

In particular applications and in compliance with the safety standards, additional devices are fitted on the castor and we normally refer to the brakes.
These devices are parking brakes and when they are fitted on trolley they should be used only on even flooring having a slope with a maximum of 3,5%.
In any case the handling equipment, that requires such devices, must be equipped at least with a pair of brakes to be driven. At the same time for safety reasons they must be never used when the trolley is moving or to reduce its speed.

APPLICATION

It is necessary to comply the following instructions during the assembling of castor or wheels on the trolley:

A. *To carefully check the planarity and the proper dimensions of the trolley where the wheels or/and the castors have to be fitted on and also check the exact sizing for the assembling of the wheels or/and the castors.*

B. *It is absolutely forbidden to fit the castor on the trolley by welding. To assembly the castor on the trolley you must use the mechanical fixing elements provided on the product and ensure the castor is firmly fixed to the platform of the trolley.*

C. *Castors must be perfectly square to the platform of the trolley and be positioned straight to the running direction.*

CONTROLLI E MANUTENZIONE

Per un corretto utilizzo in sicurezza e per una maggiore durata nel tempo, l'Utilizzatore deve procedere periodicamente a controlli e manutenzioni affinché il prodotto impiegato continui ad avere affidabilità e costanza qualitativa. Occorre quindi:

A. Verificare periodicamente, almeno ogni 6 mesi, il perfetto serraggio degli organi di collegamento dei supporti al mezzo di trasporto (viti dadi e rondelle) nonché il corretto bloccaggio dell'assale ruota.

B. Lubrificare con olii e grassi appropriati gli organi di rotolamento sia delle ruote che dei supporti ogni 6 mesi, ponendo particolare attenzione al tipo di lubrificante da utilizzare, in special modo quando le temperature di impiego risultino essere diverse dagli standard compresi fra +5°C e +40°C.

Qualora l'ambiente di lavoro sia altamente corrosivo o la temperatura di utilizzo elevata, occorre ridurre i tempi di intervallo tra le lubrificazioni periodiche arrivando ad intervalli mensili o anche più frequenti in caso di lavaggi con detergenti. In ogni caso non utilizzare mai detergenti che non siano compatibili con i materiali impiegati nella costruzione della componentistica del prodotto. Per maggiori informazioni contattare il nostro Ufficio Tecnico.

C. Eliminare periodicamente dal battistrada tutte quelle occlusioni che determinano una alterazione del suo profilo iniziale (trucioli, pietre, sporcizia varia). Questa avvertenza vale in modo particolare per i prodotti aventi conducibilità elettrica, ed in tale caso è opportuno verificare ad intervalli massimi di 3 mesi il valore minimo accettabile della conduttività.

D. Verificare ogni 3 mesi l'efficacia dei dispositivi di frenatura ripristinando qualora necessario le opportune lubrificazioni dei leverismi e asportando gli eventuali oggetti o inclusioni che possano pregiudicare il buon funzionamento dei dispositivi.

E. Rimuovere inoltre dalla intercapedine esistente tra il mozzo ruota e la parete della forcella del supporto inclusioni varie quali fili, corde, ecc. Il montaggio di doppi dischi parafili all'esterno del mozzo ruota, allunga il periodo fra gli intervalli di manutenzione oltre a garantire continuità nelle prestazioni del prodotto.

TABELLA RIASSUNTIVA MANUTENZIONI E/O CONTROLLI PERIODICI

TIPO DI MANUTENZIONE	3 MESI	6 MESI	12 MESI
Geometria carrello			●
Elementi di fissaggio		●	
Integrità prodotto		●	
Efficacia dispositivi opzionali		●	
Alterazione prodotto		●	
Proprietà conduttive		●	
Lubrificazioni		●	
Pressioni di gonfiaggio	●		

STOCCAGGIO DEL PRODOTTO

Risulta determinante per la conservazione delle caratteristiche tecniche del prodotto uno stoccaggio che garantisca un normale livello di umidità, con temperature comprese fra -10°C e +40°C ed una esposizione non diretta agli agenti atmosferici in generale. In caso di stoccaggio superiore ai 6 mesi dalla data di ricevimento del materiale, è consigliabile una revisione manutentiva del prodotto prima del suo utilizzo, con particolare riguardo al ripristino dei vari lubrificanti, controllo dei leverismi di frenatura e pressioni di gonfiaggio nel caso di ruote pneumatiche. Pioggia ed esposizione solare per periodi prolungati possono modificare la composizione chimico-fisica e l'aspetto estetico (colore e/o opacità) dei componenti alterandone quindi le caratteristiche di base e conseguentemente le prestazioni di progetto all'atto del susseguente impiego.

PERIODICAL CHECKS AND MAINTENANCE

The End User should periodically inspect and do maintenance in order to maintain a constant quality and reliability of the product. Proceed as follows:

A. *Periodically check at least every 6 months, the correct tightening of the fixing elements of the castor to the trolley (screws and bolts) as well as the correct locking of the wheel on the axle.*

B. *Lubricate, by proper lubricating oils and greases, the bearings of both the wheels and the castors every 6 months, taking care to apply the correct lubricant especially when the working temperatures are outside the standard range of +5°C and + 40°C. If environmental conditions are highly corrosive or working temperature is very high, periodical lubrications should be done every month or even shorter when detergents are used for cleaning. However you shall never use detergents not compatible with the components of the product. We suggest to contact our Technical Department for further information.*

C. *Periodically remove all the obstructions that modify the original tread profile, such as metal chippings, stones and scraps. This is particularly important for conductive products; in this case it is recommended to check the leak resistance value every max. 3 months.*

D. *Verify the efficiency of the locking devices every 3 months and, if any, restore the lubrication of the braking mechanism and remove any obstruction that can damage the good functioning.*

E. *Remove all the obstructions such as threads, strings, etc. from the clearance between the hub wheel and the fork side. Wheels equipped with thread guards allow to reduce the periodical checking time and to guarantee longer performances.*

SCHEDULE OF MAINTENANCE OR/AND PERIODICAL CHECKS

TYPE OF MAINTENANCE OR CONTROL	3 MONTH	6 MONTH	12 MONTH
Dimensions of the trolley			●
Fixing elements		●	
Product integrity		●	
Good functioning of the locking devices		●	
Product changes		●	
Conductive properties		●	
Lubrications		●	
Tyre pressure	●		

STOCKING OF THE PRODUCT

In order to keep the technical characteristics of the product, it is essential to store it under the following conditions: normal humidity rate, temperatures between –10°C and + 40°C and protection against atmospheric agents. In case of storing over than 6 months from the arrival of the material, it is recommended a revision of a product before using it, with particular care in restoring the different lubricants, checking the locking devices and the pressure of the pneumatic tyres.

Exposure to rain and direct sunlight for a long time can modify the chemical-physical properties of the components and consequently the performance of the product.

NORMATIVE

L'inosservanza o la non corretta applicazione delle norme generali sull'impiego ed avvertenze citate, comportano inevitabilmente la decadenza di qualsiasi forma di garanzia data dalle Officine Meccaniche Gino Nerviani sui prodotti, così come l'esclusione da qualsiasi tipo di responsabilità sia civile che penale.

NORMATIVE - METODI DI PROVA

La ricerca e la progettazione, il collaudo ed i dati dimensionali, le caratteristiche e le prestazioni dei prodotti elencati nel presente catalogo fanno riferimento ed ottemperano alle normative attualmente in vigore quali:

NORMATIVE COMUNI

UNI EN 12527
Ruote e supporti, Metodi di prova ed apparecchiature

UNI EN 12526
Castor and wheels Vocabulary, recommended symbols and multilingual dictionary.

NORMATIVE RIFERITE A RUOTE E SUPPORTI PER USI INDUSTRIALI

UNI EN 12532
Ruote e supporti.
Ruote e supporti per applicazione max 1,1 m/s (4 km/h).

UNI EN 12533
Ruote e supporti.
Ruote e supporti per applicazione oltre 1,1 m/s (4 km/h) e fino a 4,4 m/s (16 km/h).

NORMATIVE RIFERITE A RUOTE E SUPPORTI PER COLLETTIVITÀ ARREDAMENTO

UNI EN 12528
Ruote e supporti. Rotelle per arredamento. Requisiti.

UNI EN 12529
Ruote e supporti. Rotelle per arredamento. Rotelle per sedie mobili. Requisiti.

UNI EN 12530
Ruote e supporti. Ruote e supporti per attrezzature mobili a propulsione manuale per comunità.

UNI EN 12531
Ruote e supporti. Rotelle per letti d'ospedale.

NORMATIVE RIFERITE A GOMME E RIVESTIMENTI RUOTE

UNI ISO 2878
Gomma vulcanizzata. Prodotti antistatici e conduttori. Determinazione della resistenza elettrica.

UNI EN ISO 1183-1
UNI EN ISO 1183-2
Prove sulle materie plastiche. Determinazione della massa volumica delle materie plastiche non alveolari.

UNI 6065
Elastomeri. Prove su gomma vulcanizzata e termoplastica. Prova di trazione.

UNI ISO 34-2
Gomma vulcanizzata o termoplastica. Determinazione della resistenza alla lacerazione. Parte 2: provini di forma ridotta (Delft).

UNI ISO 4649:2009
Elastomeri. Determinazione della resistenza all'abrasione mediante dispositivo a tamburo cilindrico rotante.

UNI 7716
Elastomeri - prove su gomme vulcanizzate e termoplastiche - Determinazione della resa elastica.

UNI 1853:2007
Elastomeri: prova su vulcanizzati. Determinazione della resistività di volume di elastomeri conduttori ed antistatici.

UNI 8313
Elastomeri: Prove su vulcanizzati. Determinazione della variazione di massa, di volume e di dimensioni di articoli di gomma in contatto statico con liquidi miscibili e non miscibili con acqua.

UNI EN ISO 868
Materie plastiche ed ebanite - Determinazione della durezza per penetrazione di un durometro (durezza Shore).

UNI 7406
Elastomeri. Termini e definizioni, riguardanti: materie prime, materie ausiliarie e nozioni generali; prove: processi di lavorazione, di trasformazione e macchinari.

NORMS

Non-compliance or incorrect application of the above general norms for use and instructions will invalidate any warranty given by Officine Meccaniche Gino Nerviani on the products and release the manufacturer from any civil and penal liability.

TEST - NORMS

Research, engineering test, dimensional data, features and performances of each product showed in this catalogue are in accordance and to comply with the Norms and Standards currently applied as follows:

IN ACCORDO CON I RIFERIMENTI DIN

DIN 53505; DIN 53516; DIN 53504; DIN 53479; DIN 53512; DIN 60093; DIN 60167; DIN 53521; DIN 53517.

IN ACCORDO CON I RIFERIMENTI ASTM

ASTM D624-00 e 1; ASTM D2240; ASTM D412; ASTM D470; ASTM D2632; ASTM D1630; ASTM D395; ASTM D792; ASTM D746; ASTM D790; ASTM 638.

CON RIFERIMENTO ALLE NORMATIVE: UNI EN 12527 UNI EN 12532

le portate nominali indicate nel presente catalogo sia per le ruote che per i supporti con ruota, sono riferite a condizioni di collaudo quali:

A. velocità max. 4 Km./h.;

B. pavimentazione dura e compatta;

C. presenza di ostacoli aventi altezza massima pari al 5% del diametro della ruota qualora la durezza battistrada sia < di 90 Sh.A o pari al 2,5% del diametro ruota per durezze > di 90 Sh.A.;

D. temperatura ambiente di +25°C;

E. cicli di impiego discontinui intercalati da fasi di riposo.

Inoltre, per poter fornire adeguate garanzie e per verificare la costanza nel tempo del proprio processo produttivo le Officine Meccaniche Gino Nerviani utilizzano un'adeguata: **MACCHINA PROVA RUOTE.**

REFERRING TO THE UNI EN 12527 UNI EN 12532 NORMS:

load capacity stated in this catalogue both about wheels and castors are referred to normal working conditions, such as:

A. max speed of 4 KPH;

B. solid and hard flooring;

C. obstacles having maximum height equal to 5% of the wheel diameter if tread hardness is < than 90 Sh.A or equal to 2,5% of the wheel diameter if hardness is > than 90 Sh.A.;

D. working temperature of +25°C;

E. sequence working cycles and resting times.

In order to give proper guarantees and to check the constant quality of production, Officine Meccaniche Gino Nerviani has a suitable: ***TESTING MACHINE.***

MACCHINA PROVA RUOTE

Impiegando i parametri di collaudo secondo le normative sopraindicate, tale attrezzatura, provvista di completo monitoraggio elettronico, consente di emettere Dichiarazione di Conformità, secondo quanto definito nella norma UNI CEI EN ISO/IEC 17050-1 e 17050-2, o di fornire, su specifica richiesta, oltre ai valori dei risultati in funzione dalle normativein vigore, altri dati che possano interessare l'Utilizzatore e precisamente:

A. conformità del prodotto testato ai dati riportati a catalogo;

B. valore dei picchi di carico incontrati durante lo svolgimento del test;

C. valore dell'andamento delle temperature sviluppatesi durante le prove nei tre livelli di composizione dei prodotti quali battistrada, corpo portante o nucleo ruota, organi di rotolamento mozzo ruota;

D. valore dei consumi del battistrada in %;

E. compatibilità del prodotto con i più svariati tipi di pavimentazioni utilizzate;

F. controllo e monitoraggio della resistenza dinamica del prodotto impiegato tra +20°C e +300°C;

G. collaudi di durata con cicli di lavoro particolari con possibilità di testare carichi da 50 a 2500 daN;

H. test comparativi tra differenti prodotti aventi identiche caratteristiche di impiego anche se di differente provenienza;

I. valori delle forze necessarie allo spunto ed alla scorrevolezza.

L. valori delle forze necessarie alla sterzata

TESTING MACHINE

In accordance with the checking parameters of the above mentioned Norms, this machine, equipped with a digital control, allows to issue a DECLARATION OF CONFORMITY, as stated in UNI CEI EN ISO/IEC 17050-1 e 17050-2 Norms, or to provide some specific data of interest for the End User such as:

A. *compliance of the product with the data in the catalogue;*

B. *value of the loading peaks during the test;*

C. *value of temperatures during the test for tread, center wheel and hub bearing;*

D. *wearing of the tread of the wheel in %;*

E. *compatibility of the product with different type of floorings;*

F. *checking and monitoring of dynamic resistance of the product between +20°C and +300°C;*

G. *endurance tests at special working cycles and for load capacity from 50 to 2500 daN;*

H. *comparative tests on similar products of different manufacturers;*

I. *values of the forces needed for cue and smoothness.*

L. *values of the forces needed for turning*

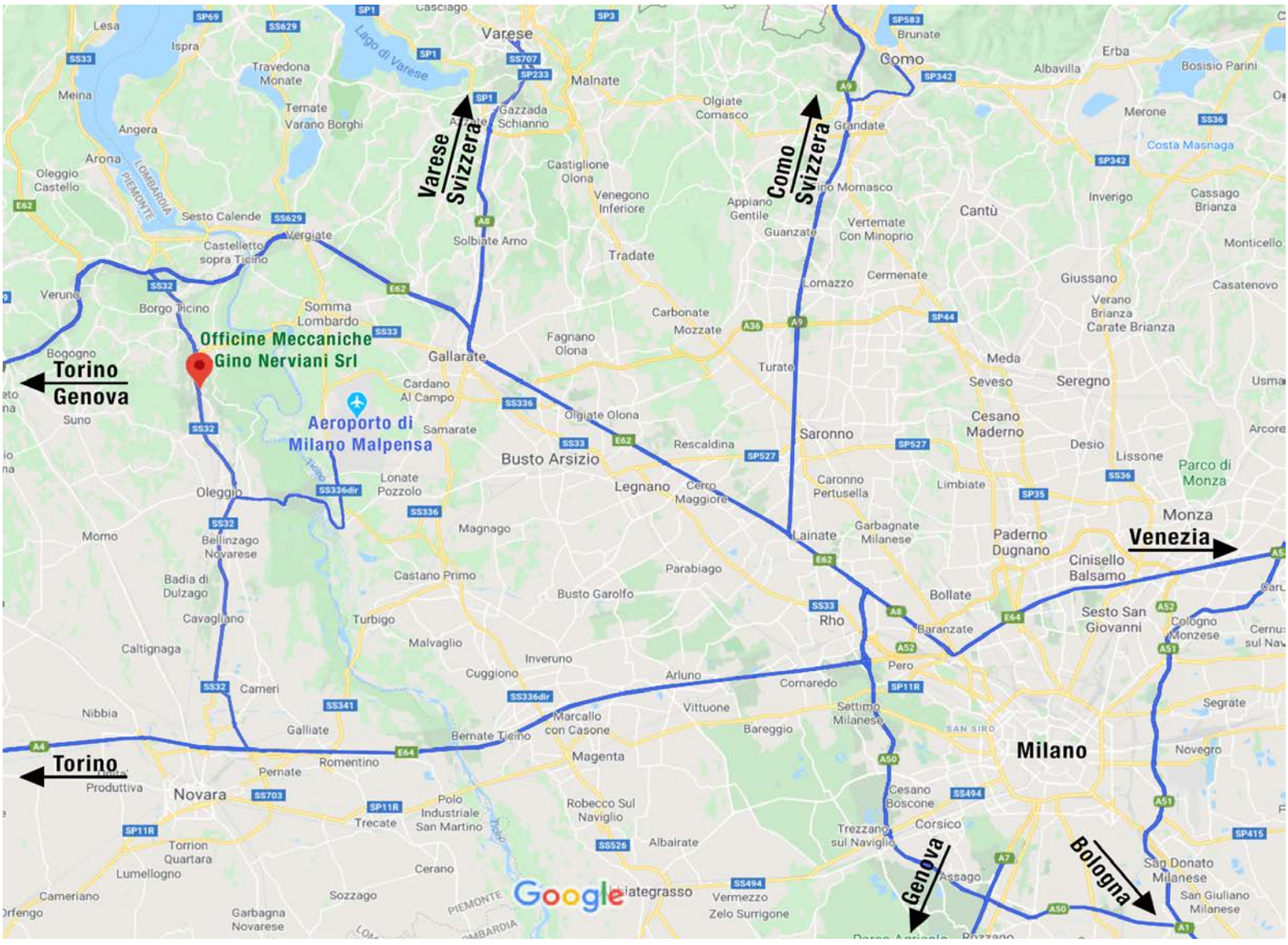
MATERIALI IMPIEGATI E COMPATIBILITÀ CON AGGRESSIVI CHIMICI

INDICATIVE CHEMICAL RESISTANCE OF THE MATERIALS OF MANUFACTURING

	Durezza ***Hardness***	Allungamento ***Elongation***	Carico ***Tensile Strenght***	Acidi deboli *Weak Acid*	Acidi forti *Strong Acid*	Basi deboli *Weak bases*	Basi forti *Strong Bases*	Alcoli *Alchols*	Solventi clorurati e aromatici *Aromatic and chlourided Solvents*	Idrocarburi *Hydrocarbons*	Acetoni *Acetones*	Acqua a 20° C *Water ad 20° C*	Vapore acqueo saturo *Satured steam*	Acqua salata *Salted water*
Lamiera in acciaio per stampaggio e imbottitura ***Pressed steel***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Lamiera in acciaio INOX AISI 3014 per stampaggio e imbottitura ***Pressed stainless steel INOX 304***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Alluminio profuso UNI EN 1706 ***Die-casting aluminium UNI EN 1706***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Ghisa per colata EN-GJL-200 ***Cast iron EN-GJL-200***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Gomma standard ***Standard rubber***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Gomma antistatica ***Antistatic rubber***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Gomma elastica ***Elastic rubber***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Polipropilene copolimero ***Polypropylene copolymer***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Poliammide tipo 6 ***Polyamide 6***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Poliammide tipo 6 con cariche fibra di vetro ***Polyamide 6 reinforced with glass fibre***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Poliuretano termoplastico ***Thermoplastic polyurethane***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Poliuretano per colata ***Cast polyurethane***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Resina termoindurente ***Thermosetting resin***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●
Poliflex 80 ***Poliflex 80***	50 62 HRB	27% 36%	340 390 N/mm²	●	●	●	●	●	●	●	●	●	●	●

LEGENDA *LEGEND*

● Ottimo *Very good*
● Buono *Good*
● Mediocre *Poor*
● Pessimo *Very bad*
● Vietato *Forbidden*


Officine Meccaniche
Gino Nerviani Srl
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Genova
Aeroporto di
Milano Malpensa
Varese
Svizzera
Como
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Genova
Bologna
Varese
Como
Busto Arsizio
Gallarate
Saronno
Rho
Legnano
Lainate
Novara
Magenta
Monza
Sesto San
Giovanni
Cinisello
Balsamo
Paderno
Dugnano
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Maderno
Seregno
Seveso
Meda
Desio
Lissone
Parco di
Monza
Giussano
Cantù
Carate Brianza
Verano
Brianza
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Cassago
Brianza
Merone
Costa Masnaga
Erba
Albavilla
Bosisio Parini
Brunate
Grandate
Olgiate
Comasco
Malnate
Tradate
Solbiate Arno
Castiglione
Olona
Venegono
Inferiore
Appiano
Gentile
Guanzate
Vertemate
Con Minoprio
Cermenate
Lomazzo
Carbonate
Mozzate
Fagnano
Olona
Turate
Rescaldina
Olgiate Olona
Samarate
Lonate
Pozzolo
Oleggio
Magnago
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Busto Garolfo
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Milanese
Vittuone
Bareggio
Arluno
Inveruno
Cuggiono
Malvaglio
Turbigo
Cavaglano
Badia di
Dulzago
Momo
Bellinzago
Novarese
Somma
Lombardo
Borgo Ticino
Castelletto
sopra Ticino
Sesto Calende
Vergiate
Oleggio
Castello
Arona
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Ternate
Varano Borghi
Travedona
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Ispra
Lesa
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Bogogno
Suno
Caltignaga
Cameri
Nibbia
Galliate
Romentino
Pernate
Produttiva
Torrion
Quartara
Lumellogno
Cameriano
Orfengo
Cerano
Sozzago
Garbagna
Novarese
Trecate
Polo
Industriale
San Martino
Robecco Sul
Naviglio
Albairate
Marcallo
con Casone
Bernate Ticino
Trezzano
sul Naviglio
Corsico
Cesano
Boscone
Assago
Milanese
Segrate
Novegro
San Donato
Milanese
San Giuliano
Milanese
Garbagnate
Milanese
Caronno
Pertusella
Limbiate
Cologno
Monzese
Cernusco
sul Naviglo
Google

Sede / Heardquarter

Strada Statale 59
28050 Pombia (NO) Italy
info@nerviani.it
Tel: +39 0321.950511
Fax: +39 0321.950590

Commerciale Italia / Domestic Sales Department

vendite@nerviani.it
Tel: +39 0321.950511
Fax: +39 0321.950591

Commerciale Estero / Export Sales Department

sales@nerviani.it
Ph: +39 0321.950511
Fax: +39 0321.950592

Simboli - Symbols - Symboles - Simbolos

A
Foro liscio
Plain bore
Roulement lissè
Gleitlager Eje
Agujero liso

B
Boccola autolubrificante
Self-lubricating bush
Douille auto-lubrifiant
Selbstchmierende Buchse
Casquillo auto-lubrificante

R
Gabbia a rulli standard
Roller bearing
Roulement à rouleaux
Standard Rollenlager
Cojinetes a rodillo standard

X
Gabbia a rulli inox
Stainless steel roller bearing
Douil/e d'acien inoxydable
Rostfreie Rollenlager
Casquillo acero inoxidable

E
Gabbia a rulli pista scorrimento in acciaio
Roller bearing with steel seat
Roulement à rouleaux avec piste en acier
Rollenlager mit Stah/buchse
Sobre eje pasante en casquillo de acero

W
Gabbia a rulli inox pista scorrimento in acciaio inox
Stainless steel roller bearing with stainless steel seat
Roulement à rou/eaux inox avec piste en inox
Rostfreie Rollenlager mit rostfreie Buhse
Sobre eje pasante en casquillo de acero inoxidable

K
Cuscinetto a sfere
Ball bearing
Roulement à billes
Kugellager
Rodamiento a bolas

M
Singolo cuscinetto a sfere
Single ball bearing
Roulement à billes
Einzel Kugellager
Rodamiento a bolas

N
Singolo cuscinetto a sfere a tenuta stagna
Waterproof single ball bearing
Roulement à billes étanche single
Einzel Dichtkugellager
Rodamiento a bolas 2RS

T
Cuscinetto a sfere a tenuta stagna
Waterproof ball bearing
Roulement à billes étanche
Dichtkugellager
Rodamiento a bolas 2RS

D
Cuscinetti con rulli temperati
Ball bearings with tempered rollers
Lager mit gehärteten Rollen
Roulements à rouleaux trempés
Rodamiento con rodillos templados

C
Cuscinetto a sfere tenuta stagna inox
Waterproof stainless steel ball bearing
Roulement à billes étanche inox
Dichtkugellager rostfrei
Rodamiento a bolas, hermético, inoxidables

L
Ruote senza cuscinetti a sfere
Wheel without ball bearings
Roue sans roulements à billes
Rad ohne Kugellager
Rueda sin rodamiento

S
Cono sfere
Cone bearing
Cone à billes
Konuskugellager
Cono a bolas

Z
Boccola in bronzo sinterizzato
Syntherized bronze bushing
Bagues en bronze frittè
Sinterbronze-Buchse
Buje de bronce sinterizado

COD
Codice
Part no.
Code
Artikel Nr.
Código

Diametro ruota
Wheel diameter
Diamètre de la roue
Raddurchmesser
Diámetro de la rueda

Larghezza fascia ruota
Tread width
Largeur de bandage
Radbreite
Ancho banda de Rodadura

Diametro ruota - Larghezza fascia ruota
Wheel diameter - Tread width
Diamètre de la roue - Largeur de bandage
Raddurchmesser - Radbreite
Diámetro de la rueda - Banda de Rodadura

Diametro foro mozzo ruota
Hub bore
Diamètre alésage de moyeu
Bohrungdurchmesser
Diámetro del eje

Larghezza mozzo ruota
Hub lenght
Longueur de moyeu
Bohrunglänge
Largo del cubo

Diametro foro mozzo ruota - Larghezza mozzo ruota
Hub bore - Hub lengh
Diamètre alésage de moyeu - Longueur de moyeu
Bohrungdurchmesse - Bohrunglänge
Diámetro del eje - Largo del cubo

a
Scartamento esterno cuscinetti
Distance between bearing outer faces
Ecartement extérieur des roulements
Einspannlänge
Largo externo entre cojinetes

c / a / b / (axb-c)
Dimensione sedi e larghezza mozzo
Hub seat sizes
Dimensions siège et longueur de moyeu
Kugellagersitzmaße
Dimensiòn alojamiento del rodamiento y ancho buje

cerchio / rims
Cerchio
Rims
Jante
Felgen
Llanta

Vite
Screw
Boulon
Schraube
Tornillo

daN
Portata nominale espressa in daN
Load capacity in daN
Capacité de charge en daN
Tragkraft daN
Capacidad de carga en daN

Kg
Massa espressa in kg
Weight in kilos
Poids en kg
Gewicht kg
Peso en kg

Pavimento in resina epossidica e similari
Epoxy resin flooring or similar
Sol en rèsine èpoxyde ou similaire
Epoxydharzfußboden oder ähnlichen
Pavimento en resina eposìdica y similares

Pavimento in cemento e similari
Concrete flooring or similar
Sol en ciment ou similaire
Zementfußboden oder ähnlichen
Pavimento en cemento y similare

Pavimento in asfalto e similari
Asphalt flooring or similar
Sol en asphalte ou similaire
Asphaltfußboden oder ähnlichen
Pavimento en asfalto y similaires

Pavimento in gres e similari
Gres or tiled flooring
Sol en grès ou similaire
Steinzeugfußboden oder ähnlichen
Pavimento en gres y similares

Pavimento sterrato
Rough terrain
Sol accidenté
Ungepflasterterfußboden oder ähnlichen
Pavimento apisonado

Simboli - Symbols - Symboles - Simbolos

Pavimento in grigliato e similari
Mesh flooring or similar
Sol en grillage ou similaire
Rostfußboden oder ähnlichen
Pavimento en rejado y similares

Pavimento trucioli in ferro e similar
Iron chips flooring or similar
Sol à rognures de fer ou similaire
Eisenspanefußboden oder ähnlichen
Pavimento con viruta de hierro y similares

Temperatura d'impiego
Working temperature
Température d'utilisation
Betriebstemperatur
Temperatura de empleo

Utilizzo con aggressivi chimici
Use with chemicals
Emploi avec agents chimiques
Verwendbar mit chemischen Medien
Empleo con agresivo quimicos

Durezza battistrada espressa in Sh.A
Tread hardness in Sh.A
Dureté de la bandage en Sh.A
Laufflächenhärte in Sh.A
Dureza de la banda expresa en Sh.A

Coefficiente di abrasione in mm3
Abrasion factor in mm3
Coéfficient d'abrasion en mm3
Reibfestigkelt in mm3
Coeficiente de abrasiòn en mm3

Velocità massima di utilizzo
Maximum working speed
Vitesse maximale d'utilisation
Max. Verwedungsgeschwindigkeit
Velocidad maxima de empleo

Impiego con traino manuale
Hand trailing
Trainage manual
Manuelles Schleppen
Empleo Manual

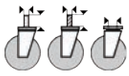
Impiego con traino meccanico
Mechanical trailing
Trainage mécanique
Mechanisches Schleppen
Empleo con tracciòn mecànica

Utilizzo sconsigliato
Forbidden use
Emploi interdit
Besser nicht zu verwenden
Empleo desaconsejable

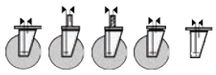
Dimensioni piastra
Top plate size
Dimension de platine
Plattengröße
Dimensiones de platina

Interasse fori
Bolt hole spacing
Ecartement des trous de fixation
Schraublochentfernung
Distancia entre centros

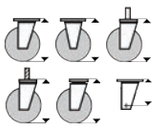
Diametro fori piastra
Bolt hole diameter
Diamètre trous de la platine
Schraubloch-durchmesser
Diametro taladros fijacion



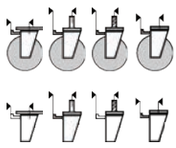
Dimensioni codolo cilindrico - Dimensioni codolo filettato - Dimensioni foro centrale di fissaggio
Stem sizes - Threaded stem sizes - Bolt hole sizes
Dimensions de la tige - de la tige filetée -Diamètre de trou centrai de fixation
Zapfendurchmesser - Gewindezapfen-Größe -Rückenlochdurchmesser
Dimensiones espiga cilindrica - Dimensiones espiga roscada - Diametro pasador



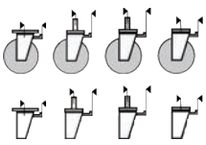
Disassamento
Offset
Déport
Ausladung
Desplazamiento



Altezza totale
Overall height
Hauteur totale
Bauhöhe
Altura total



Ingombro leva freno anteriore
Front brake lever size
Longueur pédale du frein antérieur
Vorderbremspedal-Maße
Radio giro de freno anterior



IIngombro leva freno posteriore
Front brake lever size
Longueur pédale du frein arrière
Hinterbremspedal-Maße
Radio giro de freno volver

Altezza esagono
Hexagon height
Hauteur de l'hexagone
Sechskantbauhöhe
Altura de la espiga del hexagonal

Diametro ruota interno supporto
Wheel diameter internal housing
Diamètre de la roue intérieur roulette
Raddurchmesser Gehause inner
Dimensiòn de la rueda

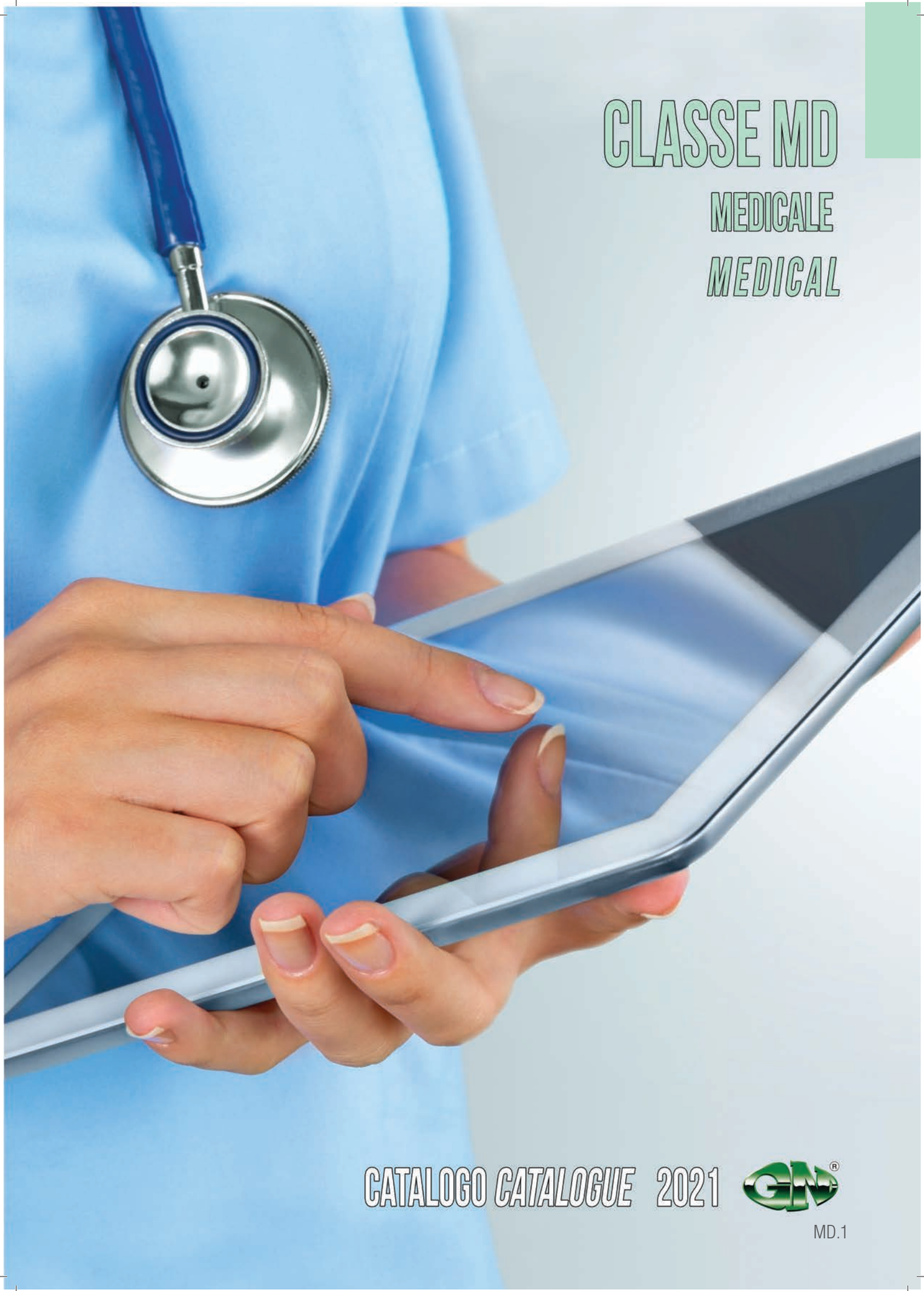
IInterno supporto e foro assale
Internal size of housing and hub diameter
Dimension intérieur roulette et diamètre alésage de moyeu
Innergehausemesser
und Bohrungdurchmesser
Soporte interno y agujero de eje

Sporgenza spintore centrale esteso/compresso
Central push-rod ledge extended/compressed
Saillie pousseur central étendu/comprimé
Mittelstößelüberstand-ausgestreckt/gedruckt
Recorrido espiga accionamiento

Diametro e spessore ranella supporto
Diameter and thickness of support washer
Diamètre et épaisseur de la rondelle de la roulette
Durchmesser und Dicke der Stützscheibe
Diametro y grosor del soporte

Ruota a terra
Wheel ground placed
Roue non levée
Bodenrad
Rueda no levantada

Ruota sollevata
Wheel up
Roue levée
Rad vom Boden abgehoben
Rueda levantada



CLASSE MD

MEDICALE

MEDICAL

CATALOGO *CATALOGUE* 2021

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PRODOTTI PER IL SETTORE MEDICALE

L'esperienza e la tecnologia acquisite con l'incorporazione nelle Officine Meccaniche Gino Nerviani della società Luigi Perego, ci hanno consentito di proporre soluzioni tecniche altamente specifiche per il settore ospedaliero. Ruote per handicap, per trasporto malati, per letti ospedalieri e per tavoli operatori, compongono una gamma completa di prodotti che ci consente di soddisfare ogni particolare condizione di utilizzo in ambiente medicale.

CASTORS FOR MEDICAL DIVISION

Experience and technology aquired when Company Luigi Perego have been incorporated into Officine Meccaniche Gino Nerviani, allowed us to offer a wide range of products exclusively dedicated to medical industry such as wheels for disabled, stretchers, hospital beds, surgery tables and medical devices.

ED

RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA SINTETICA GRIGIA
PLASTIC CENTRE WHEELS WITH GREY SYNTHETIC RUBBER TYRES
Pag. 5

DN DH

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO GRIGIO
RUOTE CONDUTTIVE NUCLEO POLIAMMIDE ANELLO POLIURETANO GRIGIO
POLYAMIDE CENTRE WHEELS WITH GREY POLYURETHANE TREAD
CONDUCTIVE POLYAMIDE CENTRE WHEELS WITH GREY POLIURETHANE TREAD
Pag. 6 - 7

H

SUPPORTI IN POLIAMMIDE
POLYAMIDE HOUSING
Pag. 8

S

SUPPORTI IN POLIAMMIDE
POLYAMIDE HOUSING
Pag. 9 - 13 - 14

T

SUPPORTI IN POLIAMMIDE CONDUTTIVO
CONDUCTIVE POLYAMIDE HOUSING
Pag 10 - 15 - 16

G

SUPPORTI CROMATI
CHROME-PLATED HOUSING
Pag. 19

F

SUPPORTI ACCIAIO INOX
STAINLEES STEEL HOUSING
Pag. 20

D

SUPPORTI CROMATI
CHROME-PLATED HOUSING
Pag. 21

K

SUPPORTI CROMATI
CHROME-PLATED HOUSING
Pag. 22 - 23 - 26- 27 -28

O

RUOTE GEMELLATE IN POLIURETANO
POLYURETHANE TWIN CASTORS
Pag. 31

GP SW

RUOTE PNEUMATICA GRIGIA ANTITRACCIA O POLIURETANO SOFT GRIGIO ANTITRACCIA
PNEUMATIC GREY TYRE NON-MARKING OR GREY SOFT POLIURETHANE NON-MARKING
Pag. 40 - 41

U3 U5

RUOTE A 3 O 5 RAZZE IN GOMMA GRIGIA MORBIDA
3 OR 5 SPOKE WHEELS WITH GREY THERMOPLASTIC SOFT RUBBER
Pag. 42 - 43

VARIANTI - ATTACCHI - ACCESSORI
OPTIONS - ACCESSORIES
Pag. 11 - 12 - 17 - 18 - 24 - 25 - 29 - 30 - 44

PT NAME
IC
RN
WARD

RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA SINTETICA GRIGIA

PLASTIC CENTRE WHEELS WITH GREY SYNTHETIC RUBBER TYRE

Caratteristiche Ruota

Anello in gomma sintetica grigia.
Struttura portante colore grigio
in materiale plastico.
Movimento mozzo:
alesaggio passante.
monocuscinetto a tenuta stagna (EDN).
doppi cuscinetti a tenuta stagna (EDT).
Temperatura d'impiego da -20°C a +70°C.
Discreta resistenza agli aggressivi chimici.
Durezza battistrada 85 Sh.A +/- 5
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Movimentazione manuale.

Wheel Features

Grey synthetic rubber tyre
Plastic material centre wheels.
Type of bearing:
plain bearing.
single water proof ball bearing (EDN).
double water proof ball bearing.(EDT).
Temperature range:from -20°C to +70°C.
Fair resistance to chemicals.
Tread hardness 85 Sh.A +/-5.
Good resistance to abrasion.
Max working speed 4 km/h.
Operation: manual.

EDA

EDN EDT

	COD		daN	COD		daN	COD		daN
60x25	**2EDA060008**	8x30	60	**2EDN060006**	6x32	60			
80x25	**2EDA080012**	12x30	70	**2EDN080008**	8x32	70			
80x32	**2EDA080A12**	12x36	80	**2EDN080A08**	8x38	80			
100x25	**2EDA100012**	12x30	80	**2EDN100008**	8x32	80			
100x32	**2EDA100A12**	12x36	90	**2EDN100A08**	8x38	90			
125x25	**2EDA125012**	12x30	90	**2EDN125008**	8x32	90			
125x32	**2EDA125A12**	12x36	100	**2EDN125A08**	8x38	100			
125x46							**0EDT125B12**	12x63	160
150x32	**2EDA150012**	12x36	140				**2EDT150008**	8x38	140
160x46							**0EDT160012**	12x63	220
200x32	**2EDA200012**	12x36	160				**2EDT200008**	8x38	160
200x50							**0EDT200A12**	12x63	300

Varianti / *Options*

EDA

Parafili a richiesta
Thread guards on request

EDN

Parafili inclusi
Thread guards included

EDT

Completo di parafili o riduttori laterali in nylon
Complete with thread guards
or nylon side reduction

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO GRIGIO

POLYAMIDE CENTRE WHEELS WITH GREY POLYURETHANE TREAD

DNN

DNT

Caratteristiche Ruota

Rivestimento in poliuretano grigio.
Struttura portante in poliammide 6 ad alta densità colore grigio.
Movimento mozzo:
monocuscinetto a tenuta stagna (DNN):
doppi cuscinetti a tenuta stagna (DNT).
Temperatura d'impiego da –40°C a +85°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 95 Sh.A +/- 5.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Grey polyurethane tyre
Grey polyamide 6 centre wheel.
Type of bearing:
single water proof ball bearing (DNN).
double water proof ball bearing.(DNT).
Temperature range: from -40°C to +85°C.
Good resistance to chemicals.
Tread hardness 95 Sh.A +/- 5.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

	COD		daN	COD		daN
60x25	**2DNN060006**	6x32	70			
80x25	**2DNN080A08**	8x32	100			
80x32	**2DNN080008**	8x38	100			
100x25	**2DNN100A08**	8x32	120			
100x32	**2DNN100008**	8x38	150			
125x25	**2DNN125A08**	8x32	130			
125x32	**2DNN125008**	8x38	160			
125x46				**0DNT125B12**	12x63	400
150x32				**2DNT150008**	8x38	170
160x46				**0DNT160012**	12x63	450
200x32				**2DNT200008**	8x38	180
200x50				**0DNT200A12**	12x63	500

Varianti / *Options*

DNN

Parafili inclusi
Thread guards included

DNT

Completo di parafili o riduttori laterali in nylon
Complete with thread guards or nylon side reduction

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

RUOTE CONDUTTIVE NUCLEO POLIAMMIDE ANELLO POLIURETANO GRIGIO

CONDUCTIVE POLYAMIDE CENTRE WHEELS WITH GREY POLYURETHANE TREAD

DHN

DHT

Caratteristiche Ruota

Anello in poliuretano grigio CONDUTTIVO
Struttura portante in poliammide CONDUTTIVO colore grigio.
Movimento mozzo:
monocuscinetto a tenuta stagna (DHN).
doppi cuscinetti a tenuta stagna (DHT).
Temperatura d'impiego da –20°C a +70°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 95 Sh.A +/- 5.
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.
Resistenza elettrica inferiore a 100000 Ohm.

Wheel Features

CONDUCTIVE grey poliurethane tread
CONDUCTIVE grey polyamide 6 centre wheel.
Type of bearing:
single water proof ball bearing (DHN).
double water proof ball bearing (DHT).
Temperature range: from –20°C to +70°C.
Good resistance to chemicals.
Tread hardness 95 Sh.A.
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.
Leak resistance < 100000 Ohm.

	COD		daN	COD		daN
60x25	**2DHN060006**	6x32	70			
80x25	**2DHN080A08**	8x32	100			
80x32	**2DHN080008**	8x38	130			
100x25	**2DHN100A08**	8x32	120			
100x32	**2DHN100008**	8x38	150			
125x25	**2DHN125A08**	8x32	130			
125x32	**2DHN125008**	8x38	160			
150x32				**2DHT150012**	12x32	180
200x32				**2DHT200012**	12x32	180

Varianti / *Options*

DHN

Parafili inclusi
Thread guards included

DHT

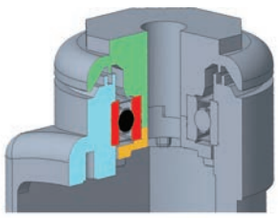
Parafili a richiesta
Thread guards on request

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Supporto stampato in poliammide rinforzato
con fibra di vetro.
Movimento rotazione su cuscinetto a sfere di precisione
DIN 625 2RS a tenuta stagna.
Colore grigio RAL 7005

ASSEMBLATO CON:
ED Ruota nucleo materiale plastico
anello gomma termoplastica grigia antitraccia.

DN Ruota nucleo poliammide rivestimento
in poliuretano grigio.



Polyamide swivel housing
with fibreglass.
waterproof ball bearing DIN 625 2RS.
Grey colour RAL 7005

ASSEMBLED WITH:
ED Plastic material centre wheels.
with grey non-marking thermoplastic rubber tyre.

DN Polyamide centre wheels
with grey polyurethane tread.

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
100x32	12	38	145	**3EDN100AQH0Q2**	90
125x32	12	47	165	**3EDN125AQH0Q2**	100
150x32	12	49	195	**3EDT1500QH0Q2**	120
200x32	12	67	251	**3EDT2000QH0Q2**	120
100x32	12	38	145	**3DNN1000QH0Q2**	100
125x32	12	47	165	**3DNN1250QH0Q2**	100
150x32	12	49	195	**3DNT1500QH0Q2**	120
200x32	12	67	251	**3DNT2000QH0Q2**	120

girevole foro per vite freno totale / *bolt hole swivel castor total lock*

				COD	daN
100x32	12	38	145	**3EDN100AQHDQ2**	90
125x32	12	47	165	**3EDN125AQHDQ2**	100
150x32	12	49	195	**3EDT1500QHDQ2**	120
200x32	12	67	251	**3EDT2000QHDQ2**	120
100x32	12	38	145	**3DNN1000QHDQ2**	100
125x32	12	47	165	**3DNN1250QHDQ2**	100
150x32	12	49	195	**3DNT1500QHDQ2**	120
200x32	12	67	251	**3DNT2000QHDQ2**	120

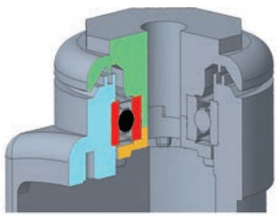
girevole foro per vite freno direzionale / *bolt hole swivel castor directional lock*

				COD	daN
100x32	12	38	145	**3EDN100AQHQQ2**	90
125x32	12	47	165	**3EDN125AQHQQ2**	100
150x32	12	49	195	**3EDT1500QHQQ2**	120
200x32	12	67	251	**3EDT2000QHQQ2**	120
100x32	12	38	145	**3DNN1000QHQQ2**	100
125x32	12	47	165	**3DNN1250QHQQ2**	100
150x32	12	49	195	**3DNT1500QHQQ2**	120
200x32	12	67	251	**3DNT2000QHQQ2**	120

Supporto stampato in poliammide rinforzato
con fibra di vetro.
Movimento di rotazione su cuscinetto a sfere di precisione
DIN 625 2RS a tenuta stagna.
Colore grigio RAL 7044

ASSEMBLATE CON:
ED Ruota nucleo materiale plastico
anello gomma termoplastica grigia antitraccia.

DN Ruota nucleo poliammide rivestimento
in poliuretano grigio.



Polyamide swivel housing
with fiberglass.
waterproof pecision ball bearing
DIN 625 2RS.
Colour grey RAL 7044

ASSEMBLED WITH:
ED Plastic material centre wheels.
with grey non-marking thermoplastic rubber tyre.

DN Polyamide centre wheels
with grey polyurethane tread.

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
100x32	12	38	145	**3EDN100AQS0Q2**	90
125x32	12	47	165	**3EDN125AQS0Q2**	100
150x32	12	49	195	**3EDT1500QS0Q2**	120
200x32	12	67	251	**3EDT2000QS0Q2**	120
100x32	12	38	145	**3DNN1000QS0Q2**	100
125x32	12	47	165	**3DNN1250QS0Q2**	100
150x32	12	49	195	**3DNT1500QS0Q2**	120
200x32	12	67	251	**3DNT2000QS0Q2**	120

girevole foro per vite freno totale / *bolt hole swivel castor total lock*

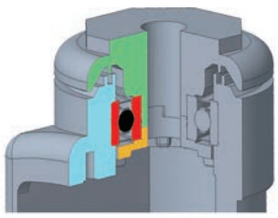
				COD	daN
100x32	12	38	145	**3EDN100AQSDQ2**	90
125x32	12	47	165	**3EDN125AQSDQ2**	100
150x32	12	49	195	**3EDT1500QSDQ2**	120
200x32	12	67	251	**3EDT2000QSDQ2**	120
100x32	12	38	145	**3DNN1000QSDQ2**	100
125x32	12	47	165	**3DNN1250QSDQ2**	100
150x32	12	49	195	**3DNT1500QSDQ2**	120
200x32	12	67	251	**3DNT2000QSDQ2**	120

girevole foro per vite freno direzionale / *bolt hole swivel castor directional lock*

				COD	daN
100x32	12	38	145	**3EDN100AQSQQ2**	90
125x32	12	47	165	**3EDN125AQSQQ2**	100
150x32	12	49	195	**3EDT1500QSQQ2**	120
200x32	12	67	251	**3EDT2000QSQQ2**	120
100x32	12	38	145	**3DNN1000QSQQ2**	100
125x32	12	47	165	**3DNN1250QSQQ2**	100
150x32	12	49	195	**3DNT1500QSQQ2**	120
200x32	12	67	251	**3DNT2000QSQQ2**	120

Supporto stampato in poliammide CONDUTTIVO
Movimento di rotazione su cuscientto a sfere di precisione
DIN 625 2RS a tenuta stagna.
Colore grigio RAL 7005

ASSEMBLATO CON:
DH Ruota CONDUTTIVA nucleo poliammide anello in poliuretano grigio conduttivo.
UNI EN 12528 (R>10^5 R<10^7 Ohm)



CONDUTTIVE polyamide swivel housing
waterproof precision ball bearing
DIN 625 2RS a tenuta stagna.
Grey colour RAL 7005

ASSEMBLED WITH:

DH CONDUTTIVE polyamide centre wheels
with grey polyurethane tread.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
100x32	12	38	145	**3DHN1000QT0Q2**	100
125x32	12	47	165	**3DHN1250QT0Q2**	100
150x32	12	49	195	**3DHT1500QT0Q2**	120
200x32	12	67	251	**3DHT2000QT0Q2**	120

girevole foro per vite freno totale / *bolt hole swivel castor total lock*

				COD	daN
100x32	12	38	145	**3DHN1000QTDQ2**	100
125x32	12	47	165	**3DHN1250QTDQ2**	100
150x32	12	49	195	**3DHT1500QTDQ2**	120
200x32	12	67	251	**3DHT2000QTDQ2**	120

girevole foro per vite freno direzionale / *bolt hole swivel castor directional lock*

				COD	daN
100x32	12	38	145	**3DHN1000QTQQ2**	100
125x32	12	47	165	**3DHN1250QTQQ2**	100
150x32	12	49	195	**3DHT1500QTQQ2**	120
200x32	12	67	251	**3DHT2000QTQQ2**	120

tipo attacco foro vite / *attack type bolt hole*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
Q	Q	●	●	●	Ø10	Q0
Q	Q	●	●	●	Ø12	Q2
Q	Q	●	●	●	Ø1/2"	Q7

tipo attacco foro filettato / *attack type threaded hole*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
O	O	●	●	●	M10	M0
O	O	●	●	●	M12	M2

tipo attacco filettato perno stampato / *attack type threaded fitting with pressed pin*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
V	V	●	●	●	M10x20	B1
V	V	●	●	●	M10x30	B2
V	V	●	●	●	M12x20	B3
V	V	●	●	●	M12x30	B4

tipo attacco filettato vite infilata / *attack type threaded fitting with inserted screw*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
D	D	●	●	●	M10x20	B1
D	D	●	●	●	M10x30	B2
D	D	●	●	●	M12x20	B3
D	D	●	●	●	M12x30	B4

tipo attacco codolo cilindrico / *attack type solid stem*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
C	C	●	●	●	Ø19X45	2C
C	C	●	●	●	Ø20,5X45	3C
C	C	●	●	●	Ø21,5X45	4C
C	C	●	●	●	Ø22X45	5C
C	C	●	●	●	Ø23,5X45	6C
C	C	●	●	●	Ø25,5X45	7C
C	C	●	●	●	Ø27,5X45	8C
C	C	●	●	●	Ø27,8X45	9C
C	C	●	●	●	Ø32X54	0C

tipo attacco espansore poliammide cilindrico / *attack type round polyamide expander*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
EL	E	●	●	●	Ø19-21x46	L2
EL	E	●	●	●	Ø22-23x46	L4
EL	E	●	●	●	Ø24-26x46	L5
EL	E	●	●	●	Ø27-29x46	L6
EL	E	●	●	●	Ø30-32x46	L7

tipo attacco espansore poliammide quadro / *attack type square polyamide expander*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
EE	**E**	●	●	●	20-21,5x46	**E1**
EE	**E**	●	●	●	22-24x46	**E2**
EE	**E**	●	●	●	25-27x46	**E3**
EE	**E**	●	●	●	30-32x46	**E4**
EE	**E**	●	●	●	36-38x46	**E5**

tipo attacco espansore zama / *attack type zamac expander*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
EZ	**E**	●	●	●	Ø17-18,5x40	**Z1**
EZ	**E**	●	●	●	Ø19-21,5x40	**Z2**
EZ	**E**	●	●	●	Ø22-23,5x40	**Z3**
EZ	**E**	●	●	●	Ø24-27,5x40	**Z4**
EZ	**E**	●	●	●	Ø 28-32x40	**Z6**
EZ	**E**	●	●	●	20-20x40	**Z7**

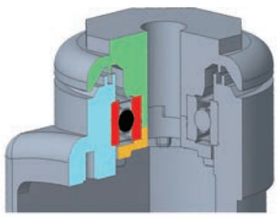
tipo attacco piastra / *attack type plate*

Tipo *Type*	Attacco *Fitting*	Serie H	Serie S	Serie T	Dimensioni *Dimension*	Suffisso *Final Code*
G	**G**	●	●	●	80X80 60X60 8,5	**PQ**
G	**G**	●	●	●	90X70 70X50 8,5	**PR**
G	**G**	●	●	●	77X67 60X50 8,5	**PD**

Supporto stampato in poliammide rinforzato
con fibra di vetro.
Movimento di rotazione su cuscinetto a sfere di precisione
DIN 625 2RS a tenuta stagna.
Colore grigio RAL 7044

ASSEMBLATE CON:
ED Ruota nucleo materiale plastico
anello gomma termoplastica grigia antitraccia.

DN Ruota nucleo poliammide rivestimento
in poliuretano grigio.



Polyamide swivel housing
with fiberglass.
waterproof pecision ball bearing
DIN 625 2RS.
Colour grey RAL 7044

ASSEMBLED WITH:
ED Plastic material centre wheels.
with grey non-marking thermoplastic rubber tyre.

DN Polyamide centre wheels
with grey polyurethane tread.

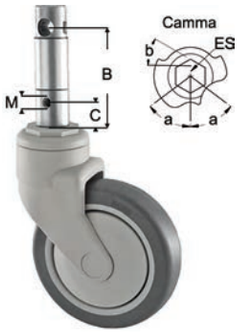
girevole codolo cilindrico freno totale / *stem swivel castor total lock*

		B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
100x32	32x52	34	7	M6	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN100ABSBH5**	90
125x32	32x52	34	7	M6	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN125ABSBH5**	100
150x32	32x52	34	7	M6	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT1500BSBH5**	120
200x32	32x52	34	7	M6	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT2000BSBH5**	120
100x32	32x52	34	7	M6	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1000BSBH5**	100
125x32	32x52	34	7	M6	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1250BSBH5**	100
150x32	32x52	34	7	M6	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT1500BSBH5**	120
200x32	32x52	34	7	M6	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT2000BSBH5**	120

girevole codolo cilindrico freno totale o direzionale / *stem swivel castor total lock or directional lock*

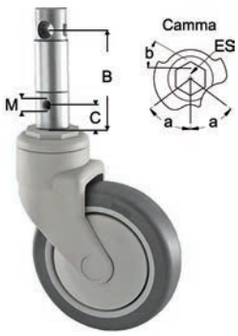
		B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
100x32	32x52	34	7	M6	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN100ABSAH5**	90
125x32	32x52	34	7	M6	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN125ABSAH5**	100
150x32	32x52	34	7	M6	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT1500BSAH5**	120
200x32	32x52	34	7	M6	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT2000BSAH5**	120
100x32	32x52	34	7	M6	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1000BSAH5**	100
125x32	32x52	34	7	M6	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1250BSAH5**	100
150x32	32x52	34	7	M6	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT1500BSAH5**	120
200x32	32x52	34	7	M6	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT2000BSAH5**	120

girevole codolo cilindrico freno totale / *stem swivel castor total lock*



		B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
100x32	28x100	79	19	M8	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN100ABSBK5**	90
125x32	28x100	79	19	M8	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN125ABSBK5**	100
150x32	28x100	79	19	M8	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT1500BSBK5**	120
200x32	28x100	79	19	M8	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT2000BSBK5**	120
100x32	28x100	79	19	M8	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1000BSBK5**	100
125x32	28x100	79	19	M8	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1250BSBK5**	100
150x32	28x100	79	19	M8	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT1500BSBK5**	120
200x32	28x100	79	19	M8	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT2000BSBK5**	120

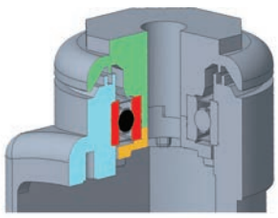
girevole codolo cilindrico freno totale o direzionale / *stem swivel castor total lock or directional lock*



								camma CB	COD	daN
100x32	28x100	79	19	M8	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN100ABSAK5**	90
125x32	28x100	79	19	M8	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDN125ABSAK5**	100
150x32	28x100	79	19	M8	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT1500BSAK5**	120
200x32	28x100	79	19	M8	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3EDT2000BSAK5**	120
100x32	28x100	79	19	M8	38	145	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1000BSAK5**	100
125x32	28x100	79	19	M8	47	165	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNN1250BSAK5**	100
150x32	28x100	79	19	M8	49	195	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT1500BSAK5**	120
200x32	28x100	79	19	M8	67	251	4 fori - 4 holes	**ES=11 a=45° b=15**	**3DNT2000BSAK5**	120

Supporto stampato in poliammide CONDUTTIVO
Movimento di rotazione su cuscientto a sfere di precisione
DIN 625 2RS a tenuta stagna.
Colore grigio RAL 7005

ASSEMBLATO CON:
DH Ruota CONDUTTIVA nucleo poliammide
anello in poliuretano grigio conduttivo.
UNI EN 12528 (R>10^5 R<10^7 Ohm)



CONDUTTIVE polyamide swivel housing
waterproof precision ball bearing
DIN 625 2RS a tenuta stagna.
Grey colour RAL 7005

ASSEMBLED WITH:

DH CONDUTTIVE polyamide centre wheels
with grey polyurethane tread.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

girevole codolo cilindrico freno totale / *bolt hole swivel castor total lock*

		B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
100x32	32x52	34	7	M6	38	145	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1000BTBH5**	100
125x32	32x52	34	7	M6	47	165	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1250BTBH5**	100
150x32	32x52	34	7	M6	49	195	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT1500BTBH5**	120
200x32	32x52	34	7	M6	67	251	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT2000BTBH5**	120

girevole codolo cilindrico freno totale o direzionale / *bolt hole swivel castor directional lock*

		B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
100x32	32x52	34	7	M6	38	145	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1000BTAH5**	100
125x32	32x52	34	7	M6	47	165	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1250BTAH5**	100
150x32	32x52	34	7	M6	49	195	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT1500BTAH5**	120
200x32	32x52	34	7	M6	67	251	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT2000BTAH5**	120

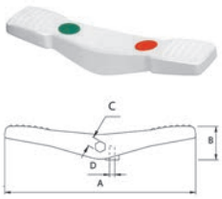
girevole codolo cilindrico freno totale / *bolt hole swivel castor total lock*

		B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
100x32	28x100	79	19	M8	38	145	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1000BTBK5**	100
125x32	28x100	79	19	M8	47	165	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1250BTBK5**	100
150x32	28x100	79	19	M8	49	195	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT1500BTBK5**	120
200x32	28x100	79	19	M8	67	251	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT2000BTBK5**	120

girevole codolo cilindrico freno totale o direzionale / *bolt hole swivel castor directional lock*

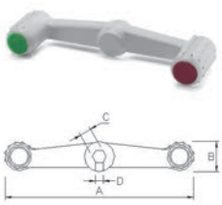
			B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
100x32	28x100		79	19	M8	38	145	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1000BTAK5**	100
125x32	28x100		79	19	M8	47	165	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1250BTAK5**	100
150x32	28x100		79	19	M8	49	195	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT1500BTAK5**	120
200x32	28x100		79	19	M8	67	251	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT2000BTAK5**	120

leva pedale profilo piatto / *double lever flat profile*



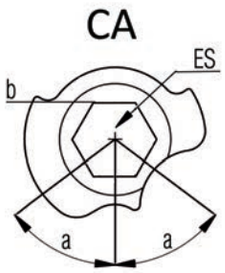
A mm	B mm	C mm	D mm	Camma Cam's	COD
215	38	ESAG. 12,2-0°	M6	CA	**G7FQ5150NA201**
215	38	ESAG. 11,2-15°	M6	CB	**G7FQ5150N1001**
215	38	ESAG. 11,2-30°	M6	CC-CD	**G7FQ5150NA901**

leva pedale profilo rotondo / *double lever round profile*



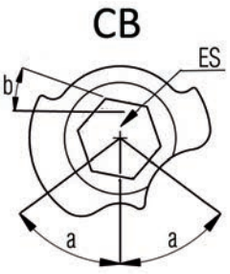
A mm	B mm	C mm	D mm	Camma Cam's	COD
190	30	ESAG. 12,2-0°	M8	CA	**G7FQK200AA201**
190	30	ESAG. 11,2-15°	M8	CB	**G7FQK200A3002**

tipi di camma / *cam's type*



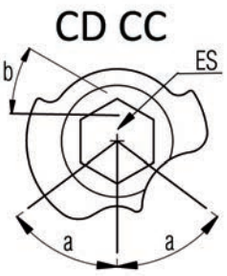
ES	a°	b°	tipo di camma *cam type*
12	45°	0°	**CA**

tipi di camma / *cam's type*



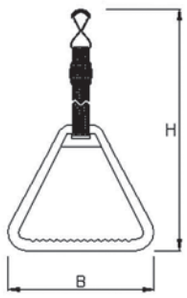
ES	a°	b°	tipo di camma *cam type*
11	45°	15°	**CB**

tipi di camma / *cam's type*



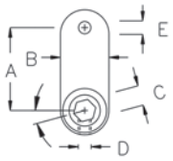
ES	a°	b°	tipo di camma *cam type*
11	45°	30°	**CC**
11	30°	30°	**CD**

trapezio di sollevamento con cinghie poliammide grigio / *raising trapeze handle and strap grey polyamide*



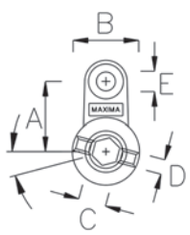
B mm	H max mm	COD
260	600	**7ACTR260400**

leva collegamento 52 mm / *change lever 52 mm*



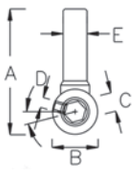
A mm	B mm	C mm	D mm	E mm	COD
52	30	ESAG. 12,2-0°	M8	diam. 8,5	**7SN12001AB**
52	30	ESAG. 11,2-15°	M8	diam. 8,5	**7SN11002AB**
52	30	ESAG. 11,2-30°	M8	diam. 8,5	**7SN11001AB**

leva collegamento 28 mm / *change lever 28 mm*



A mm	B mm	C mm	D mm	E mm	COD
28	26	ESAG. 11,2-15°	M6	diam. 8,2	**7SN11001ZB**

giunto adattatore / *adaptor*



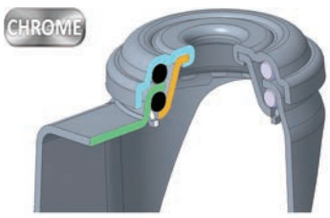
A mm	B mm	C mm	D mm	E mm	COD
73,5	27	ESAG. 11,2-15°	M6	diam. 14	**7SN11002ZB**

Supporto in acciaio stampato girevole
su doppio giro di sfere.
Finitura cromata.

ASSEMBLATE CON:
ED Ruota nucleo materiale termoplastico.
anello gomma termoplastica grigia antitraccia.

DH Ruota CONDUTTIVA nucleo poliammide
anello in poliuretano grigio conduttivo.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Ruota nucleo poliammide rivestimento
in poliuretano grigio.



Steel swivel housing on double ball races.
Chrome plated finishing.

ASSEMBLED WITH:
ED Plastic material centre wheels.
with grey non-marking thermoplastic rubber tyre.
plain bearing (A)

DH CONDUTTIVE polyamide centre wheels
with grey polyurethane tread.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Polyamide centre wheels
with grey polyurethane tread.

girevole foro per vite / *bolt hole swivel castor*

				COD	daN	COD	daN
60x25	12	26	86	**3EDA0600QG0Q2**	60	**3EDN0600QG0Q2**	60
80x25	12	38	108	**3EDA0800QG0Q2**	70	**3EDN0800QG0Q2**	70
100x25	12	38	130	**3EDA1000QG0Q2**	80	**3EDN1000QG0Q2**	80
125x25	12	38	158	**3EDA1250QG0Q2**	80	**3EDN1250QG0Q2**	80
60x25	12	26	86			**3DNN0600QG0Q2**	70
80x25	12	38	108			**3DNN080AQG0Q2**	80
100x25	12	38	130			**3DNN100AQG0Q2**	80
125x25	12	38	158			**3DNN125AQG0Q2**	80
60x25	12	26	86			**3DHN0600QG0Q2**	70
80x25	12	38	108			**3DHN080AQG0Q2**	80
100x25	12	38	130			**3DHN100AQG0Q2**	80
125x25	12	38	158			**3DHN125AQG0Q2**	80

girevole foro per vite freno totale / *bolt hole swivel castor total lock*

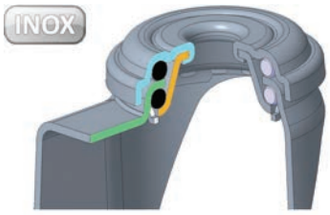
				COD	daN	COD	daN
60x25	12	37	86	**3EDA0600QGDQ2**	60	**3EDN0600QGDQ2**	60
80x25	12	37	108	**3EDA0800QGDQ2**	70	**3EDN0800QGDQ2**	70
100x25	12	35	130	**3EDA1000QGDQ2**	80	**3EDN1000QGDQ2**	80
125x25	12	35	158	**3EDA1250QGDQ2**	80	**3EDN1250QGDQ2**	80
60x25	12	37	86			**3DNN0600QGDQ2**	70
80x25	12	37	108			**3DNN080AQGDQ2**	80
100x25	12	35	130			**3DNN100AQGDQ2**	80
125x25	12	35	158			**3DNN125AQGDQ2**	80
60x25	12	37	86			**3DHN0600QGDQ2**	70
80x25	12	37	108			**3DHN080AQGDQ2**	80
100x25	12	35	130			**3DHN100AQGDQ2**	80
125x25	12	35	158			**3DHN125AQGDQ2**	80

Supporto in acciaio stampato girevole
su doppia corona di sfere.
Finitura in acciaio INOX AISI 304

ASSEMBLATE CON:
ED Ruota nucleo materiale termoplastico.
anello gomma termoplastica grigia antitraccia.

DH Ruota CONDUTTIVA nucleo poliammide
anello in poliuretano grigio conduttivo.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Ruota nucleo poliammide rivestimento
in poliuretano grigio.



Steel swivel housing on double ball races.
Stainless steel AISI 304 finishing.

ASSEMBLED WITH:
ED Plastic material centre wheels.
with grey non-marking thermoplastic rubber tyre.

DH CONDUTTIVE polyamide centre wheels
with grey polyurethane tread.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Polyamide centre wheels
with grey polyurethane tread.

girevole foro per vite / *bolt hole swivel castor*

				COD	daN	COD	daN
60x25	12	26	86	**3EDA0600QF0Q2**	60	**3EDN0600QF0Q2**	60
80x25	12	38	108	**3EDA0800QF0Q2**	70	**3EDN0800QF0Q2**	70
100x25	12	38	130	**3EDA1000QF0Q2**	80	**3EDN1000QF0Q2**	80
125x25	12	38	158	**3EDA1250QF0Q2**	80	**3EDN1250QF0Q2**	80
60x25	12	26	86			**3DNN0600QF0Q2**	70
80x25	12	38	108			**3DNN080AQF0Q2**	80
100x25	12	38	130			**3DNN100AQF0Q2**	80
125x25	12	38	158			**3DNN125AQF0Q2**	80
60x25	12	26	86			**3DHN0600QF0Q2**	70
80x25	12	38	108			**3DHN080AQF0Q2**	80
100x25	12	38	130			**3DHN100AQF0Q2**	80
125x25	12	38	158			**3DHN125AQF0Q2**	80

girevole foro per vite freno totale / *bolt hole swivel castor total lock*

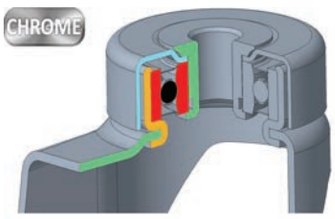
				COD	daN	COD	daN
60x25	12	37	86	**3EDA0600QFDQ2**	60	**3EDN0600QFDQ2**	60
80x25	12	37	108	**3EDA0800QFDQ2**	70	**3EDN0800QFDQ2**	70
100x25	12	35	130	**3EDA1000QFDQ2**	80	**3EDN1000QFDQ2**	80
125x25	12	35	158	**3EDA1250QFDQ2**	80	**3EDN1250QFDQ2**	80
60x25	12	37	86			**3DNN0600QFDQ2**	70
80x25	12	37	108			**3DNN080AQFDQ2**	80
100x25	12	35	130			**3DNN100AQFDQ2**	80
125x25	12	35	158			**3DNN125AQFDQ2**	80
60x25	12	37	86			**3DHN0600QFDQ2**	70
80x25	12	37	108			**3DHN080AQFDQ2**	80
100x25	12	35	130			**3DHN100AQFDQ2**	80
125x25	12	35	158			**3DHN125AQFDQ2**	80

Supporto in acciaio stampato girevole su cuscinetto a sfere di precisione DIN 625 2RS a tenuta stagna.
Finitura cromata.

ASSEMBLATO CON:
ED Ruota nucleo materiale termoplastico.
anello gomma termoplastica grigia antitraccia.

DH Ruota CONDUTTIVA nucleo poliammide anello in poliuretano grigio conduttivo.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Ruota nucleo poliammide rivestimento in poliuretano grigio.



Steel swivel housing on waterproof precision ball bearing DIN 625 2RS. Chrome plated finishing.

ASSEMBLED WITH:
ED Plastic material centre wheels. with grey non-marking thermoplastic rubber tyre.

DH CONDUTTIVE polyamide centre wheels with grey polyurethane tread.
UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Polyamide centre wheels with grey polyurethane tread.

girevole foro per vite / *bolt hole swivel castor*

				COD	daN	COD	daN
60x25	12	26	96	**3EDA0600QD0Q2**	60	**3EDN0600QD0Q2**	60
80x25	12	38	118	**3EDA0800QD0Q2**	70	**3EDN0800QD0Q2**	70
100x25	12	38	139	**3EDA1000QD0Q2**	80	**3EDN1000QD0Q2**	80
125x25	12	38	166	**3EDA1250QD0Q2**	80	**3EDN1250QD0Q2**	80
60x25	12	26	96			**3DNN0600QD0Q2**	70
80x25	12	38	118			**3DNN080AQD0Q2**	80
100x25	12	38	139			**3DNN100AQD0Q2**	80
125x25	12	38	166			**3DNN125AQD0Q2**	80
60x25	12	26	96			**3DHN0600QD0Q2**	70
80x25	12	38	118			**3DHN080AQD0Q2**	80
100x25	12	38	139			**3DHN100AQD0Q2**	80
125x25	12	38	166			**3DHN125AQD0Q2**	80

girevole foro per vite freno totale / *bolt hole swivel castor total lock*

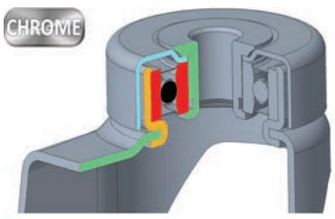
				COD	daN	COD	daN
60x25	12	37	96	**3EDA0600QDDQ2**	60	**3EDN0600QDDQ2**	60
80x25	12	37	118	**3EDA0800QDDQ2**	70	**3EDN0800QDDQ2**	70
100x25	12	35	139	**3EDA1000QDDQ2**	80	**3EDN1000QDDQ2**	80
125x25	12	35	166	**3EDA1250QDDQ2**	80	**3EDN1250QDDQ2**	80
60x25	12	37	96			**3DNN0600QDDQ2**	70
80x25	12	37	118			**3DNN080AQDDQ2**	80
100x25	12	35	139			**3DNN100AQDDQ2**	80
125x25	12	35	166			**3DNN125AQDDQ2**	80
60x25	12	37	96			**3DHN0600QDDQ2**	70
80x25	12	37	118			**3DHN080AQDDQ2**	80
100x25	12	35	139			**3DHN100AQDDQ2**	80
125x25	12	35	166			**3DHN125AQDDQ2**	80

Supporto in acciaio stampato girevole su cuscinetto a sfere di precisione DIN 625 2RS a tenuta stagna.
Finitura cromata.

ASSEMBLATO CON:
ED Ruota nucleo materiale termoplastico. anello gomma termoplastica grigia antitraccia. alesaggio passante (A)

DH Ruota CONDUTTIVA nucleo poliammide anello in poliuretano grigio conduttivo. UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Ruota nucleo poliammide rivestimento in poliuretano grigio.



Steel swivel housing on waterproof precision ball bearing DIN 625 2RS. Chrome plated finishing.

ASSEMBLED WITH:
ED Plastic material centre wheels. with grey non-marking thermoplastic rubber tyre. plain bearing (A)

DH CONDUTTIVE polyamide centre wheels with grey polyurethane tread. UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Polyamide centre wheels with grey polyurethane tread.

girevole foro per vite / *bolt hole swivel castor*

				COD	daN	COD	daN
80x32	12	43	130	**3EDA080AQK0Q2**	80	**3EDN080AQK0Q2**	80
100x32	12	44	150	**3EDA100AQK0Q2**	90	**3EDN100AQK0Q2**	90
125x32	12	45	175	**3EDA125AQK0Q2**	100	**3EDN125AQK0Q2**	100
150x32	12	50	200	**3EDA1500QK0Q2**	120	**3EDT1500QK0Q2**	120
200x32	12	54	250			**3EDT2000QK0Q2**	120
80x32	12	43	130			**3DNN0800QK0Q2**	100
100x32	12	44	150			**3DNN1000QK0Q2**	100
125x32	12	45	175			**3DNN1250QK0Q2**	110
150x32	12	50	200			**3DNT1500QK0Q2**	120
200x32	12	54	250			**3DNT2000QK0Q2**	120
80x32	12	43	130			**3DHN0800QK0Q2**	100
100x32	12	44	150			**3DHN1000QK0Q2**	100
125x32	12	45	175			**3DHN1250QK0Q2**	110
150x32	12	50	200			**3DHT1500QK0Q2**	120
200x32	12	54	250			**3DHT2000QK0Q2**	120

girevole foro per vite freno totale / *bolt hole swivel castor total lock*

				COD	daN	COD	daN
80x32	12	43	130	**3EDA080AQKDQ2**	80	**3EDN080AQKDQ2**	80
100x32	12	44	150	**3EDA100AQKDQ2**	90	**3EDN100AQKDQ2**	90
125x32	12	45	175	**3EDA125AQKDQ2**	100	**3EDN125AQKDQ2**	100
150x32	12	50	200	**3EDA1500QKDQ2**	120	**3EDT1500QKDQ2**	120
200x32	12	54	250			**3EDT2000QKDQ2**	120
80x32	12	43	130			**3DNN0800QKDQ2**	100
100x32	12	44	150			**3DNN1000QKDQ2**	100
125x32	12	45	175			**3DNN1250QKDQ2**	110
150x32	12	50	200			**3DNT1500QKDQ2**	120
200x32	12	54	250			**3DNT2000QKDQ2**	120
80x32	12	43	130			**3DHN0800QKDQ2**	100
100x32	12	44	150			**3DHN1000QKDQ2**	100
125x32	12	45	175			**3DHN1250QKDQ2**	110
150x32	12	50	200			**3DHT1500QKDQ2**	120
200x32	12	54	250			**3DHT2000QKDQ2**	120

girevole foro per vite freno direzionale / *bolt hole swivel castor directional lock*

				COD	daN	COD	daN
80x32	12	43	130	**3EDA080AQKTQ2**	80	**3EDN080AQKTQ2**	80
100x32	12	44	150	**3EDA100AQKTQ2**	90	**3EDN100AQKTQ2**	90
125x32	12	45	175	**3EDA125AQKTQ2**	100	**3EDN125AQKTQ2**	100
150x32	12	50	200	**3EDA1500QKTQ2**	120	**3EDT1500QKTQ2**	120
200x32	12	54	250			**3EDT2000QKTQ2**	120
80x32	12	43	130			**3DNN0800QKTQ2**	100
100x32	12	44	150			**3DNN1000QKTQ2**	100
125x32	12	45	175			**3DNN1250QKTQ2**	110
150x32	12	50	200			**3DNT1500QKTQ2**	120
200x32	12	54	250			**3DNT2000QKTQ2**	120
80x32	12	43	130			**3DHN0800QKTQ2**	100
100x32	12	44	150			**3DHN1000QKTQ2**	100
125x32	12	45	175			**3DHN1250QKTQ2**	110
150x32	12	50	200			**3DHT1500QKTQ2**	120
200x32	12	54	250			**3DHT2000QKTQ2**	120

tipo attacco foro vite / *attack type bolt hole*

Tipo *Type*	Attacco *Fitting*	Serie G	Serie F	Serie D	Serie K	Dimensioni *Dimension*	Suffisso *Final Code*
Q	Q	●	●	●	●	Ø10	Q0
Q	Q	●	●	●	●	Ø12	Q2

tipo attacco filettato perno stampato / *attack type threaded fitting with pressed pin*

Tipo *Type*	Attacco *Fitting*	Serie G	Serie F	Serie D	Serie K	Dimensioni *Dimension*	Suffisso *Final Code*
V	V	●	●	●	●	M10x20	B1
V	V	●	●	●	●	M10x30	B2
V	V	●	●	●	●	M12x20	B3
V	V	●	●	●	●	M12x30	B4

tipo attacco codolo cilindrico / *attack type solid stem*

Tipo *Type*	Attacco *Fitting*	Serie G	Serie F	Serie D	Serie K	Dimensioni *Dimension*	Suffisso *Final Code*
C	C	●	●	●	●	Ø19X45	2C
C	C	●	●	●	●	Ø20,5X45	3C
C	C	●	●	●	●	Ø21,5X45	4C
C	C	●	●	●	●	Ø22X45	5C
C	C	●	●	●	●	Ø23,5X45	6C
C	C	●	●	●	●	Ø25,5X45	7C
C	C	●	●	●	●	Ø27,5X45	8C
C	C	●	●	●	●	Ø27,8X45	9C
C	C	●	●	●	●	Ø32X54	0C

tipo attacco espansore poliammide cilindrico / *attack type round polyamide expander*

Tipo *Type*	Attacco *Fitting*	Serie G	Serie F	Serie D	Serie K	Dimensioni *Dimension*	Suffisso *Final Code*
EL	E	●	●	●	●	Ø19-21x46	L2
EL	E	●	●	●	●	Ø22-23x46	L4
EL	E	●	●	●	●	Ø24-26x46	L5
EL	E	●	●	●	●	Ø27-29x46	L6
EL	E	●	●	●	●	Ø30-32x46	L7

tipo attacco espansore poliammide quadro / *attack type square polyamide expander*

Tipo *Type*	Attacco *Fitting*	Serie G	Serie F	Serie D	Serie K	Dimensioni *Dimension*	Suffisso *Final Code*
EE	E	●	●	●	●	20-21,5x46	E1
EE	E	●	●	●	●	22-24x46	E2
EE	E	●	●	●	●	25-27x46	E3
EE	E	●	●	●	●	30-32x46	E4
EE	E	●	●	●	●	36-38x46	E5

tipo attacco espansore zama / *attack type zamac expander*

Tipo *Type*	Attacco *Fitting*	Serie G	Serie F	Serie D	Serie K	Dimensioni *Dimension*	Suffisso *Final Code*
EZ	E	●	●	●	●	Ø17-18,5x40	Z1
EZ	E	●	●	●	●	Ø19-21,5x40	Z2
EZ	E	●	●	●	●	Ø22-23,5x40	Z3
EZ	E	●	●	●	●	Ø24-27,5x40	Z4
EZ	E	●	●	●	●	Ø 28-32x40	Z6
EZ	E	●	●	●	●	20-20x40	Z7

tipo attacco piastra / *attack type plate*

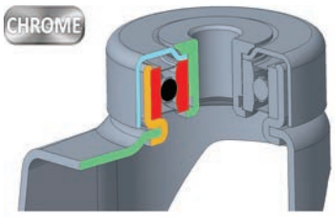
Tipo *Type*	Attacco *Fitting*	Serie G	Serie F	Serie D	Serie K	Dimensioni *Dimension*	Suffisso *Final Code*
G	G	●	●			65X65 50X40 6,5	PG
G	G			●	●	80X80 60X60 8,5	PQ
G	G			●	●	90X70 70X50 8,5	PR
G	G			●	●	77X67 60X50 8,5	PD

Supporto in acciaio stampato girevole su cuscinetto a sfere di precisione DIN 625 2RS a tenuta stagna.
Finitura cromata.

ASSEMBLATO CON:
ED Ruota nucleo materiale termoplastico. anello gomma termoplastica grigia antitraccia. alesaggio passante (A)

DH Ruota CONDUTTIVA nucleo poliammide anello in poliuretano grigio conduttivo. UNI EN 12528 (R>10^5 R<10^7 Ohm)

DN Ruota nucleo poliammide rivestimento in poliuretano grigio.



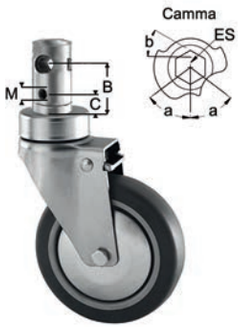
Steel swivel housing on waterproof precision ball bearing DIN 625 2RS. Chrome plated finishing.

ASSEMBLED WITH:
ED Plastic material centre wheels. with grey non-marking thermoplastic rubber tyre. plain bearing (A)

DH CONDUTTIVE polyamide centre wheels with grey polyurethane tread. UNI EN 12528 (R>10^5 R<10^7 Ohm)

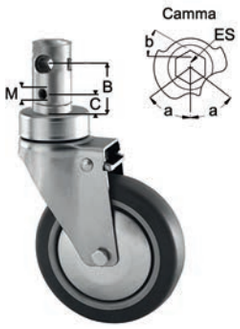
DN Polyamide centre wheels with grey polyurethane tread.

girevole codolo cilindrico freno totale / *stem swivel castor total lock*



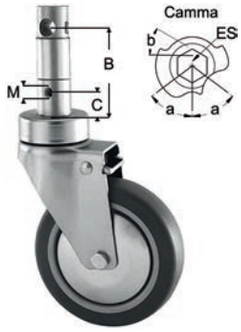
			B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
80x32	32x52		34	7	M6	43	130	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDN080ABKBH5**	80
100x32	32x52		34	7	M6	44	150	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDN100ABKBH5**	90
125x32	32x52		34	7	M6	45	175	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDN125ABKBH5**	100
150x32	32x52		34	7	M6	50	200	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDT1500BKBH5**	120
200x32	32x52		34	7	M6	54	250	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDT2000BKBH5**	120
80x32	32x52		34	7	M6	43	130	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNN0800BKBH5**	100
100x32	32x52		34	7	M6	44	150	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNN1000BKBH5**	100
125x32	32x52		34	7	M6	45	175	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNN1250BKBH5**	110
150x32	32x52		34	7	M6	50	200	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNT1500BKBH5**	120
200x32	32x52		34	7	M6	54	250	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNT2000BKBH5**	120
80x32	32x52		34	7	M6	43	130	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN0800BKBH5**	100
100x32	32x52		34	7	M6	44	150	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1000BKBH5**	100
125x32	32x52		34	7	M6	45	175	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1250BKBH5**	110
150x32	32x52		34	7	M6	50	200	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT1500BKBH5**	120
200x32	32x52		34	7	M6	54	250	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT2000BKBH5**	120

girevole codolo cilindrico freno totale o direzionale / *bolt hole swivel castor directional lock*



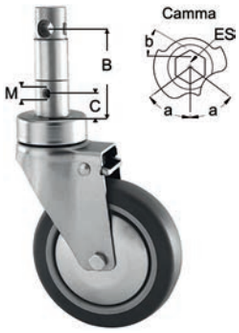
			B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
80x32	32x52		34	7	M6	43	130	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDN080ABKAH5**	80
100x32	32x52		34	7	M6	44	150	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDN100ABKAH5**	90
125x32	32x52		34	7	M6	45	175	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDN125ABKAH5**	100
150x32	32x52		34	7	M6	50	200	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDT1500BKAH5**	120
200x32	32x52		34	7	M6	54	250	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDT2000BKAH5**	120
80x32	32x52		34	7	M6	43	130	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNN0800BKAH5**	100
100x32	32x52		34	7	M6	44	150	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNN1000BKAH5**	100
125x32	32x52		34	7	M6	45	175	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNN1250BKAH5**	110
150x32	32x52		34	7	M6	50	200	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNT1500BKAH5**	120
200x32	32x52		34	7	M6	54	250	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNT2000BKAH5**	120
80x32	32x52		34	7	M6	43	130	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHN0800BKAH5**	100
100x32	32x52		34	7	M6	44	150	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHN1000BKAH5**	100
125x32	32x52		34	7	M6	45	175	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHN1250BKAH5**	110
150x32	32x52		34	7	M6	50	200	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHT1500BKAH5**	120
200x32	32x52		34	7	M6	54	250	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHT2000BKAH5**	120

girevole codolo cilindrico freno totale / *stem swivel castor total lock*



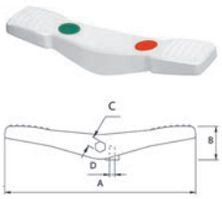
			B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
80x32	28x100		79	19	M8	43	130	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDN080ABKBK5**	80
100x32	28x100		79	19	M8	44	150	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDN100ABKBK5**	90
125x32	28x100		79	19	M8	45	175	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDN125ABKBK5**	100
150x32	28x100		79	19	M8	50	200	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDT1500BKBK5**	120
200x32	28x100		79	19	M8	54	250	4 fori - 4 holes	ES=11 a=45° b=15°	**3EDT2000BKBK5**	120
80x32	28x100		79	19	M8	43	130	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNN0800BKBK5**	100
100x32	28x100		79	19	M8	44	150	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNN1000BKBK5**	100
125x32	28x100		79	19	M8	45	175	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNN1250BKBK5**	110
150x32	28x100		79	19	M8	50	200	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNT1500BKBK5**	120
200x32	28x100		79	19	M8	54	250	4 fori - 4 holes	ES=11 a=45° b=15°	**3DNT2000BKBK5**	120
80x32	28x100		79	19	M8	43	130	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHN0800BKBK5**	100
100x32	28x100		79	19	M8	44	150	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHN1000BKBK5**	100
125x32	28x100		79	19	M8	45	175	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHN1250BKBK5**	110
150x32	28x100		79	19	M8	50	200	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHT1500BKBK5**	120
200x32	28x100		79	19	M8	54	250	4 fori - 4 holes	ES=11 a=45° b=15°	**3DHT2000BKBK5**	120

girevole codolo cilindrico freno totale o direzionale / *bolt hole swivel castor directional lock*



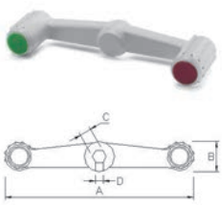
			B	C	M			Fori fissaggio *Fixing holes*	camma CB	COD	daN
80x32	28x100		79	19	M8	43	130	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDN080ABKAK5**	80
100x32	28x100		79	19	M8	44	150	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDN100ABKAK5**	90
125x32	28x100		79	19	M8	45	175	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDN125ABKAK5**	100
150x32	28x100		79	19	M8	50	200	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDT1500BKAK5**	120
200x32	28x100		79	19	M8	54	250	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3EDT2000BKAK5**	120
80x32	28x100		79	19	M8	43	130	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNN0800BKAK5**	100
100x32	28x100		79	19	M8	44	150	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNN1000BKAK5**	100
125x32	28x100		79	19	M8	45	175	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNN1250BKAK5**	110
150x32	28x100		79	19	M8	50	200	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNT1500BKAK5**	120
200x32	28x100		79	19	M8	54	250	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DNT2000BKAK5**	120
80x32	28x100		79	19	M8	43	130	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN0800BKAK5**	100
100x32	28x100		79	19	M8	44	150	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1000BKAK5**	100
125x32	28x100		79	19	M8	45	175	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHN1250BKAK5**	110
150x32	28x100		79	19	M8	50	200	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT1500BKAK5**	120
200x32	28x100		79	19	M8	54	250	4 fori - 4 holes	**ES=11 a=45° b=15°**	**3DHT2000BKAK5**	120

leva pedale profilo piatto / *double lever flat profile*



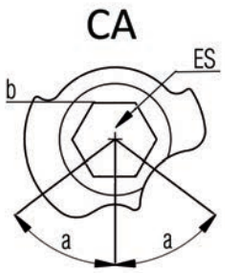
A mm	B mm	C mm	D mm	Camma Cam's	COD
215	38	ESAG. 12,2-0°	M6	CA	**G7FQ5150NA201**
215	38	ESAG. 11,2-15°	M6	CB	**G7FQ5150N1001**
215	38	ESAG. 11,2-30°	M6	CC-CD	**G7FQ5150NA901**

leva pedale profilo rotondo / *double lever round profile*



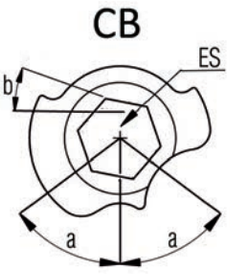
A mm	B mm	C mm	D mm	Camma Cam's	COD
190	30	ESAG. 12,2-0°	M8	CA	**G7FQK200AA201**
190	30	ESAG. 11,2-15°	M8	CB	**G7FQK200A3002**

tipi di camma / *cam's type*



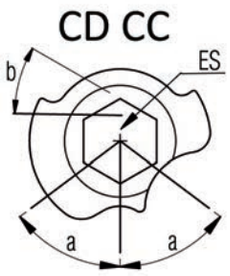
ES	a°	b°	tipo di camma *cam type*
12	45°	0°	**CA**

tipi di camma / *cam's type*



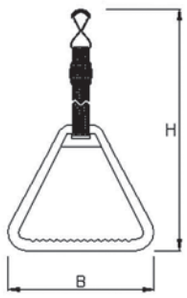
ES	a°	b°	tipo di camma *cam type*
11	45°	15°	**CB**

tipi di camma / *cam's type*



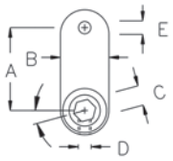
ES	a°	b°	tipo di camma *cam type*
11	45°	30°	**CC**
11	30°	30°	**CD**

trapezio di sollevamento con cinghie poliammide grigio / *raising trapeze handle and strap grey polyamide*



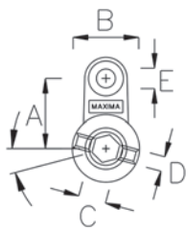
B mm	H max mm	COD
260	600	**7ACTR260400**

leva collegamento 52 mm / *change lever 52 mm*



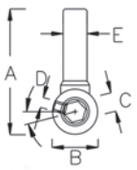
A mm	B mm	C mm	D mm	E mm	COD
52	30	ESAG. 12,2-0°	M8	diam. 8,5	**7SN12001AB**
52	30	ESAG. 11,2-15°	M8	diam. 8,5	**7SN11002AB**
52	30	ESAG. 11,2-30°	M8	diam. 8,5	**7SN11001AB**

leva collegamento 28 mm / *change lever 28 mm*



A mm	B mm	C mm	D mm	E mm	COD
28	26	ESAG. 11,2-15°	M6	diam. 8,2	**7SN11001ZB**

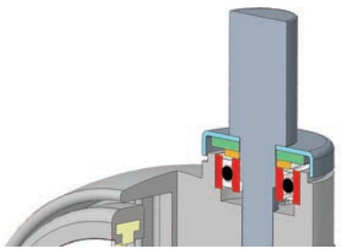
giunto adattatore / *adaptor*



A mm	B mm	C mm	D mm	E mm	COD
73,5	27	ESAG. 11,2-15°	M6	diam. 14	**7SN11002ZB**

JD: Ruote gemellate in poliuretano antitraccia scorrevole su cuscinetti a sfera a tenuta stagna DIN 625 2RS.

JH: Ruote CONDUTTIVE gemellate in poliuretano antitraccia scorrevole su cuscinetti a sfera a tenuta stagna DIN 625 2RS. Colore bianco RAL 9002



JD:*Non-marking polyurethane twin castors on waterproof ball bearings DIN 625 2RS.*

JH: *CONDUTTIVE non-marking polyurethane twin castors on waterproof ball bearings DIN 625 2RS. White colour RAL 9002*

girevole codolo cilindrico / *stem swivel castor*

				COD	daN
125x77	28x100	40	153	**3JDN1250C009C**	180
125x77	32x52	40	153	**3JDN1250C000C**	180
150x80	28x100	45	179	**3JDN1500C009C**	250
150x80	32x52	45	179	**3JDN1500C000C**	250

girevole codolo cilindrico conduttive / *conduttive stem swivel castor*

				COD	daN
125x77	28x100	40	153	**3JHN1250C009C**	180
125x77	32x52	40	153	**3JHN1250C000C**	180
150x80	28x100	45	179	**3JHN1500C009C**	250
150x80	32x52	45	179	**3JHN1500C000C**	250

girevole codolo cilindrico freno totale / *swivel swivel castor total lock*

		B	C	M			Fori fissaggio *Fixing holes*	camma CD	COD	daN
125x77	32x52	34	7	M6	40	153	4 fori - 4 holes	ES=11 a=30° b=30°	**3JDN1250B0BHL**	180
150x80	32x52	34	7	M6	45	179	4 fori - 4 holes	ES=11 a=30° b=30°	**3JDN1500B0BHL**	250

girevole codolo cilindrico freno totale o direzionale / *stem swivel castor total lock or directional lock*

		B	C	M			Fori fissaggio *Fixing holes*	camma CD	COD	daN
125x77	32x52	34	7	M6	40	153	4 fori - 4 holes	ES=11 a=30° b=30°	**3JDN1250B0AHL**	180
150x80	32x52	34	7	M6	45	179	4 fori - 4 holes	ES=11 a=30° b=30°	**3JDN1500B0AHL**	250

girevole codolo cilindrico conduttive freno totale / *conduttive stem swivel castor total lock*

		B	C	M			Fori fissaggio *Fixing holes*	camma CD	COD	daN
125x77	32x52	34	7	M6	40	153	4 fori - 4 holes	ES=11 a=30° b=30°	**3JHN1250B0BHL**	180
150x80	32x52	34	7	M6	45	179	4 fori - 4 holes	ES=11 a=30° b=30°	**3JHN1500B0BHL**	250

girevole codolo cilindrico conduttive freno totale o direzionale / *conduttive stem swivel castor total lock or directional lock*

			B	C	M			Fori fissaggio *Fixing holes*	camma CD	COD	daN
125x77	32x52		34	7	M6	40	153	4 fori - 4 holes	ES=11 a=30° b=30°	**3JHN1250BOAHL**	180
150x80	32x52		34	7	M6	45	179	4 fori - 4 holes	ES=11 a=30° b=30°	**3JHN1500BOAHL**	250

girevole codolo cilindrico freno totale / *stem swivel castor total lock*

			B	C	M			Fori fissaggio *Fixing holes*	camma CC	COD	daN
125x77	28x100		79	19	M8	40	153	4 fori - 4 holes	ES=11 a=45° b=30°	**3JDN1250BOBKG**	180
150x80	28x100		79	19	M8	45	179	4 fori - 4 holes	ES=11 a=45° b=30°	**3JDN1500BOBKG**	250

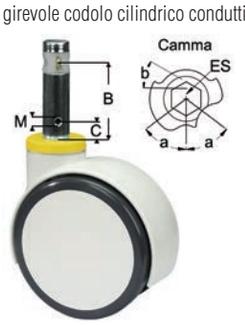
girevole codolo cilindrico freno totale o direzionale / *stem swivel castor total lock or directional lock*

			B	C	M			Fori fissaggio *Fixing holes*	camma CC	COD	daN
125x77	28x100		79	19	M8	40	153	4 fori - 4 holes	ES=11 a=45° b=30°	**3JDN1250BOAKG**	180
150x80	28x100		79	19	M8	45	179	4 fori - 4 holes	ES=11 a=45° b=30°	**3JDN1500BOAKG**	250

girevole codolo cilindrico conduttive freno totale / *conduttive stem swivel castor total lock*

			B	C	M			Fori fissaggio *Fixing holes*	camma CC	COD	daN
125x77	28x100		79	19	M8	40	153	4 fori - 4 holes	ES=11 a=45° b=30°	**3JHN1250BOBKG**	180
150x80	28x100		79	19	M8	45	179	4 fori - 4 holes	ES=11 a=45° b=30°	**3JHN1500BOBKG**	250

girevole codolo cilindrico conduttive freno totale o direzionale / *conduttive stem swivel castor total lock or directional lock*

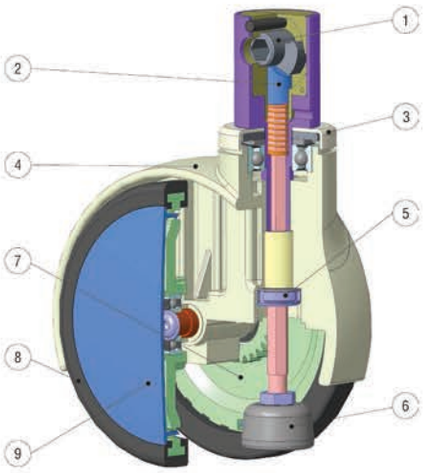


			B	C	M			Fori fissaggio *Fixing holes*	camma CC	COD	daN
125x77	28x100		79	19	M8	40	153	4 fori - 4 holes	ES=11 a=45° b=30°	**3JHN1250BOAKG**	180
150x80	28x100		79	19	M8	45	179	4 fori - 4 holes	ES=11 a=45° b=30°	**3JHN1500BOAKG**	250

SUPPORTO GEMELLATO IN POLIAMMIDE DIAM. 125 E 150 CON STATIVO MECCANICO
TWIN WHITE POLYAMIDE CASTOR WITH STATIVE BREAK DEVICE
PORTATA LOAD CAPACITY KG. 160-220

NUOVO SISTEMA FRENANTEAD AZIONAMENTO MECCANICO, MIGLIORE STABILITA' E MAGGIORE SICUREZZA NELL'UTILIZZO.
Supporto realizzato per assicurare una perfetta stabilità della struttura anche in presenza di forti urti laterali, particolarmente indicato per tavoli operatori ed in qualunque applicazione dove sia richiesta la massima rigidità senza alcuna vibrazione dell'apparecchiatura da utilizzare.
La stativià del prodotto può essere azionata simultaneamente agendo su un unico pedale tramite aste esagonali di collegamento come avviene per il bloccaggio delle tradizionali ruote per letti. L'azione frenante è ottenuta mediante uno stativo posizionato verticalmente nel perno di fissaggio che, azionato da una camma, permette di alzare da terra la struttura.
Lo stativo, una volta azionato, oltre ad assicurare una perfetta solidità, permette lo scarico delle correnti statiche a terra garantendo una perfetta conducibilità grazie alla larga base di appoggio in poliuretano conduttivo. Questo sistema innovativo ha inoltre il pregio di eliminare la consueta ovalizzazione delle ruote che si manifesta dopo una prolungata pausa statica e di consentire sempre una movimentazione silenziosa, dolce e senza sussulti.
La corsa dello stativo di oltre 12mm. che rientra in sede dopo la sua disattivazione, permette di superare senza problemi i normali ostacoli presenti sulle pavimentazioni.

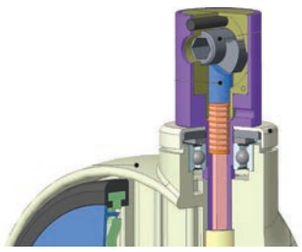
NEW WHEEL LOCK, BETTER STABILITY AND BETTER SAFETY
The wheel was projected to satisfy the reaching of a perfect stability also in case of strong and lateral crashes, perfect for operating tables and in all the applications when the max rigidness is requested, in order to avoid vibrations of the equipment. The brake can be activated simultaneously using a single pedal equipped with a connective hexagonal bar, the same used for traditional bed wheels lock system. The brake is composed by a stative placed vertically in the anchor bolt, actioned by a shaped cam that allows to lift up the structure. The stative, when puts into action, ensures stability and a perfecf conductivity with the efficient earth connection through its conductive polyurethane large base. The new innovative wheel's system permit to avoid the ovaling wheels problems observed after long braking periods and guarantees a noiseless and fluid handling. More than 12 mm. stative run, which returns in its original position after has been disactived, permits to overcome normal hurdles you could meet on your way.



1 CAMMA DI COMANDO
Control cam
2 PUNTALE DI CONTATTO
Metal push rod
3 CALOTTA DI PROTEZIONE ANTIPOLVERE
Protection cover from dust
4 CORPO IN POLIAMMIDE
Polyamide body
5 GHIERA DI REGOLAZIONE CORSA SPINTORE
Adjustment Ring nut
6 BASE APPOGGIO
Support base
7 CORPO RUOTA IN POLIAMMIDE
Center wheel made in polyamide
8 RIVESTIMENTO RUOTA
Tread
9 DISCO DI PROTEZIONE ANTIFILO
Thread guard

JD: Ruote gemellate in poliuretano antitraccia scorrevole su cuscinetti a sfera a tenuta stagna DIN 625 2RS.

JH: Ruote CONDUTTIVE gemellate in poliuretano antitraccia scorrevole su cuscinetti a sfera a tenuta stagna DIN 625 2RS. Colore bianco RAL 9002



JD:*Non-marking polyurethane twin castors on waterproof ball bearings DIN 625 2RS.*

JH: *CONDUTTIVE non-marking polyurethane twin castors on waterproof ball bearings DIN 625 2RS. White colour RAL 9002*

ruota con stativo / *stative brake device*

			B	C	M						COD	daN
125x77	45x59		41	7	M6	40	153	12	1,5	ES=11 a=60°	**3JDN1250BOZHA**	160
150x80	45x59		41	7	M6	45	179	12	1,5	ES=11 a=60°	**3JDN1500BOZHA**	220

ruota con stativo conduttive / *conduttive stative brake device*

			B	C	M						COD	daN
125x77	45x59		41	7	M6	40	153	12	1,5	ES=11 a=60°	**3JHN1250BOZHA**	160
150x80	45x59		41	7	M6	45	179	12	1,5	ES=11 a=60°	**3JHN1500BOZHA**	220

ruota girevole / *swivel castor*

			B	C	M						COD	daN
125x77	45x59		41	7	M6	40	153	12	1,5	ES=11 a=60°	**3JDN1250C00C1**	160
150x80	45x59		41	7	M6	45	179	12	1,5	ES=11 a=60°	**3JDN1500C00C1**	220

ruota girevole conduttive / *conduttive swivel castor*

			B	C	M						COD	daN
125x77	45x59		41	7	M6	40	153	12	1,5	ES=11 a=60°	**3JHN1250C00C1**	160
150x80	45x59		41	7	M6	45	179	12	1,5	ES=11 a=60°	**3JHN1500C00C1**	220

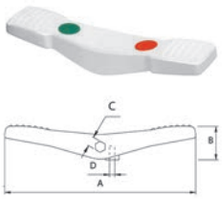
ruota fissa / *fixed castor*

		B	C	M						COD	daN
125x77	45x59	41	7	M6	40	153	12	1,5	ES=11 a=60°	**3JDN1250F00C1**	160
150x80	45x59	41	7	M6	45	179	12	1,5	ES=11 a=60°	**3JDN1500F00C1**	220

ruota fissa conduttive / *conduttive fixed castor*

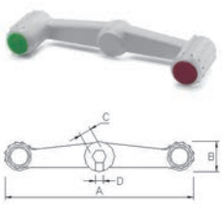
		B	C	M						COD	daN
125x77	45x59	41	7	M6	40	153	12	1,5	ES=11 a=60°	**3JHN1250F00C1**	160
150x80	45x59	41	7	M6	45	179	12	1,5	ES=11 a=60°	**3JHN1500F00C1**	220

leva pedale profilo piatto / *double lever flat profile*



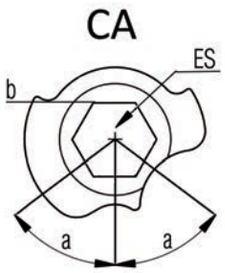
A mm	B mm	C mm	D mm	Camma Cam's	COD
215	38	ESAG. 12,2-0°	M6	CA	**G7FQ5150NA201**
215	38	ESAG. 11,2-15°	M6	CB	**G7FQ5150N1001**
215	38	ESAG. 11,2-30°	M6	CC-CD	**G7FQ5150NA901**

leva pedale profilo rotondo / *double lever round profile*



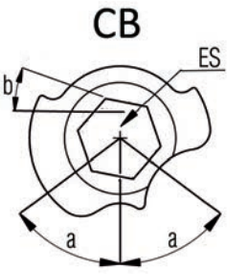
A mm	B mm	C mm	D mm	Camma Cam's	COD
190	30	ESAG. 12,2-0°	M8	CA	**G7FQK200AA201**
190	30	ESAG. 11,2-15°	M8	CB	**G7FQK200A3002**

tipi di camma / *cam's type*



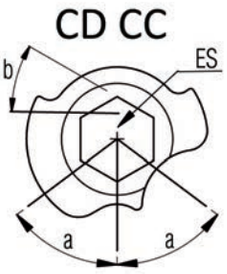
ES	a°	b°	tipo di camma *cam type*
12	45°	0°	**CA**

tipi di camma / *cam's type*



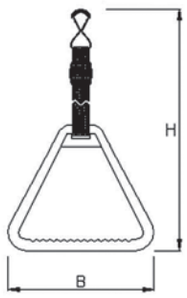
ES	a°	b°	tipo di camma *cam type*
11	45°	15°	**CB**

tipi di camma / *cam's type*



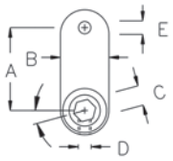
ES	a°	b°	tipo di camma *cam type*
11	45°	30°	**CC**
11	30°	30°	**CD**

trapezio di sollevamento con cinghie poliammide grigio / *raising trapeze handle and strap grey polyamide*



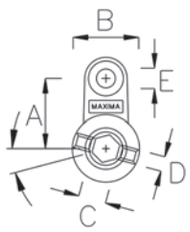
B mm	H max mm	COD
260	600	**7ACTR260400**

leva collegamento 52 mm / *change lever 52 mm*



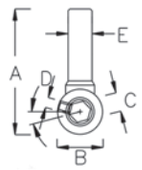
A mm	B mm	C mm	D mm	E mm	COD
52	30	ESAG. 12,2-0°	M8	diam. 8,5	**7SN12001AB**
52	30	ESAG. 11,2-15°	M8	diam. 8,5	**7SN11002AB**
52	30	ESAG. 11,2-30°	M8	diam. 8,5	**7SN11001AB**

leva collegamento 28 mm / *change lever 28 mm*



A mm	B mm	C mm	D mm	E mm	COD
28	26	ESAG. 11,2-15°	M6	diam. 8,2	**7SN11001ZB**

giunto adattatore / *adaptor*



A mm	B mm	C mm	D mm	E mm	COD
73,5	27	ESAG. 11,2-15°	M6	diam. 14	**7SN11002ZB**

SUPPORTO GEMELLATO DIAM. 125 IN LEGA DI ALLUMINIO CON STATIVO AD AZIONAMENTO IDRAULICO
TWIN ALUMINIUM CASTORS DIAM.125WITH HYDRAULIC STATIVE BREAK DEVICE
PORTATA LOAD CAPACITY KG. 160

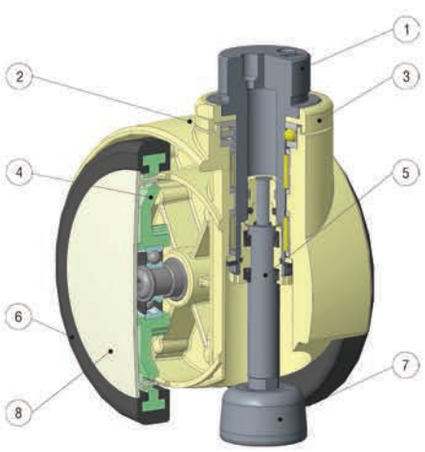
NUOVO SISTEMA FRENANTE AD AZIONAMENTO IDRAULICO, MIGLIORE STABILITA' E MAGGIORE SICUREZZA NELL'UTILIZZO. PRODOTTO CERTIFICATO IN QUALITA'.

Supporto realizzato per assicurare una perfetta stabilità della struttura ove impiegato anche in presenza di forti urti laterali, particolarmente indicato per tavoli operatori ed in qualunque applicazione dove sia richiesta la massima rigidità senza alcuna vibrazione dell'apparecchiatura da utilizzare.

La stativià del prodotto può essere azionata simultaneamente su tutti e quattro i supporti agendo su comando idraulico normalmente posizionato a bordo dell'apparecchiatura tramite dispositivo di sollevamento idraulico come avviene a titolo esplicativo per il bloccaggio delle tradizionali ruote per letti. L'azione di sollevamento delle ruote del supporto dal suolo è ottenuta mediante uno stativo posizionato verticalmente e coassiale con il cilindro idraulico annegato nel corpo portante del supporto. Tale accoppiamento meccanico consente di poter alzare da terra l'intera struttura. Lo stativo, una volta azionato, oltre ad assicurare una perfetta solidità, permette lo scarico delle correnti statiche a terra garantendo una perfetta conducibilità, grazie alla larga base di appoggio in poliuretano conduttivo. Questo sistema innovativo ha inoltre il pregio di eliminare la consueta ovalizzazione delle ruote che si manifesta dopo una prolungata pausa statica e di consentire sempre una movimentazione silenziosa, dolce e senza sussulti. La corsa dello stativo di oltre 12mm. che rientra in sede dopo la sua disattivazione, permette di superare senza problemi i normali ostacoli presenti sulle pavimentazioni.

NEW WHEEL HYDRAULICK LOCK SYSTEM, BETTER STABILITY AND BETTER SAFETY. QUALITY CERTIFICATION.

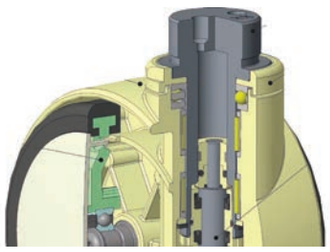
The wheel was projected to satisfy the reaching of a perfect stability also in case of strong and lateral crashes, perfect for operating tables and in all the applications when the max rigidness is requested, in order to avoid vibrations of the equipment. The brake can be activated simultaneously on the four wheels using an hydraulic device usually arranged on the side of the equipment as for the traditional brake for bed wheels. The lifting of the wheels from the floor is obtained throught a vertically oriented stative which is coaxially oriented with the hydraulic cylinder included on the castor. This mating allows to lift up the entire structure. The stative, when puts into action, ensures stability and a perfecf conductivity with the efficient earth connection through its conductive polyurethane large base. The new innovative wheel's system permit to avoid the ovaling wheels problems observed after long braking periods and guarantees a noiseless and fluid handling. More than 12 mm. stative run, which returns in its original position after has been disactived, permits to overcome normal hurdles you could meet on your way.



1 CORPO DEL CILINDRO IDRAULICO A DOPPIO EFFETTO
Double effect hydraulic cylinder
2 CORPO PORTANTE IN LEGA DI ALLUMINIO
Aluminium body
3 CALOTTA DI PROTEZIONE ANTIPOLVERE
Protection cover from dust
4 CORPO IN POLIAMMIDE
Polyamide body
5 STELO DEL CILINDRO IDRAULICO
Stem
6 RIVESTIMENTO RUOTA
Tread
7 BASE DI APPOGGIO
Support base
8 DISCO DI PROTEZIONE ANTIFILO
Thread guard

JD: Ruote gemellate in poliuretano antitraccia scorrevole su cuscinetti a sfera a tenuta stagna DIN 625 2RS.

JH: Ruote CONDUTTIVE gemellate in poliuretano antitraccia scorrevole su cuscinetti a sfera a tenuta stagna DIN 625 2RS.
Colore bianco RAL 9002
normativa di riferimento test STATICO E DINAMICO: UNI EN 12531



JD:*Non-marking polyurethane twin castors on waterproof ball bearings DIN 625 2RS.*

JH: *CONDUTTIVE non-marking polyurethane twin castors on waterproof ball bearings DIN 625 2RS. White colour RAL 9002*
STATIC and DYNAMIC TEST NORM: UNI EN 12531

ruota con stativo idraulico / *idraulic stative brake device*

						COD	daN
125x77	45x59	40	153	12	1,5	**3JDN1250C0ZM1**	160

ruota con stativo idraulico conduttive / *conduttive idraulic stative brake device*

						COD	daN
125x77	45x59	40	153	12	1,5	**3JHN1250C0ZM1**	160

RUOTA PNEUMATICA GRIGIA ANTITRACCIA

GREY PNEUMATIC TYRE NON-MARKING

Caratteristiche Ruota

GP:
Anello pneumatico grigio antitraccia
Nucleo in poliammide fibra di vetro colore nero.
Movimento mozzo:
gabbia a rulli
doppi cuscinetti a sfere tenuta stagna.
Velocità massima di lavoro 4 km/h.

Wheel Features

GP:
Grey pneumatic non-marking tyre
Black polyamide fiberglass rim.
Type of bearing:
roller bearing
double waterproof ball bearing.
Max working speed 4 km/h.

	COD		daN
175x45	**2GPR175020**	20x60	70
200x50	**2GPR200020**	20x60	70

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
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RUOTA POLIURETANO SOFT GRIGIO ANTITRACCIA

GREY SOFT POLYURETHANE NON-MARKING

Caratteristiche Ruota

SG:
Anello poliuretano SOFT grigio antitraccia
Nucleo in poliammide fibra di vetro
colore nero.
Movimento mozzo:
gabbia a rulli
doppi cuscinetti a sfere tenuta stagna.
Velocità massima di lavoro 4 km/h.

SW:
Anello poliuretano SOFT grigio antitraccia
Nucleo in poliammide fibra di vetro
colore nero.
Movimento mozzo:
doppi cuscinetti a sfere tenuta stagna.
Velocità massima di lavoro 4 km/h.

Wheel Features

SG:
Grey SOFT polyurethane non-marking tread
Black polyamide fiberglass rim.
Type of bearing:
roller bearing
double waterproof ball bearing.
Max working speed 4 km/h.

SW:
Grey SOFT polyurethane non-marking tread
Black polyamide fiberglass rim.
Type of bearing:
roller bearing
double waterproof ball bearing.
Max working speed 4 km/h.

	COD		daN	COD		daN
175x45				**2SGT175A08**	8x50	70
200x50	**2SGR200A20**	20x60	70	**2SGT200A08**	8x60	70
150x32				**2SWT150E08**	8x50	70
200x32				**2SWT200008**	8x50	70
200x32				**2SWT200E08**	8x60	70

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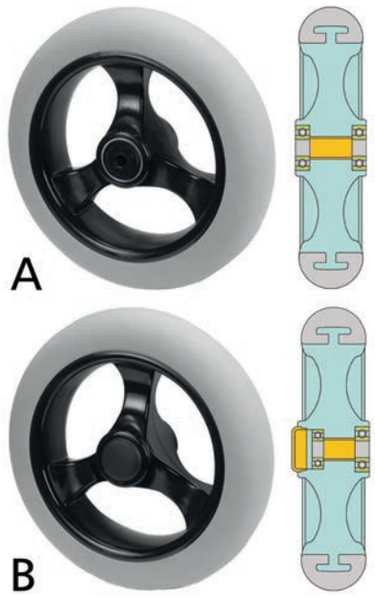
RUOTA A 3 RAZZE IN GOMMA GRIGIA MORBIDA

3 SPOKES WHEELS WITH GREY THERMOPLASTIC SOFT RUBBER



Caratteristiche Ruota

Ruote a razze
Nucleo in poliammide a 3 razze
rivestimento in gomma antitraccia
grigia 55 Sha
Movimento mozzo:
doppi cuscinetti a sfere tenuta stagna
DIN 625 2RS.
Velocità massima di lavoro 4 km/h.
NORMATIVE UNI EN ISO 12530
A richiesta ruote in differenti colori
A richiesta varianti personalizzate

Wheel Features

Spokes wheels
Polyamide centre with 3 spokes
Grey non-marking rubber tyre 55 Sha
Type of bearing:
double waterproof ball bearings
DIN 625 2RS.
Velocità massima di lavoro 4 km/h.
UNI EN ISO 12530
Wheels available in different colours
Special solutions on request

	COD		daN	A-B
175x40	**2U3T175008**	8x56	70	A
175x40	**2U3T175A12**	12x50	70	A
175x40	**2U3T175B12**	12x40	70	B
200x45	**2U3T200008**	8x56	70	A
200x45	**2U3T200A12**	12x50	70	A
200x45	**2U3T200B12**	12x40	70	B

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
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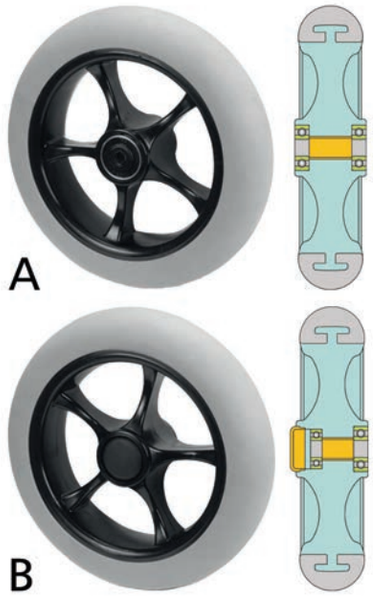
RUOTA A 5 RAZZE IN GOMMA GRIGIA MORBIDA

5 SPOKES WHEELS WITH GREY THERMOPLASTIC SOFT RUBBER



Caratteristiche Ruota

Ruote a razze
Nucleo in poliammide a 5 razze
rivestimento in gomma antitraccia
grigia 55 Sha
Movimento mozzo:
doppi cuscinetti a sfere tenuta stagna
DIN 625 2RS.
Velocità massima di lavoro 4 km/h.
NORMATIVE UNI EN ISO 12530
A richiesta ruote in differenti colori
A richiesta varianti personalizzate

Wheel Features

Spokes wheels
Polyamide centre with 5 spokes
Grey non-marking rubber tyre 55 Sha
Type of bearing:
double waterproof ball bearings
DIN 625 2RS.
Velocità massima di lavoro 4 km/h.
UNI EN ISO 12530
Wheels available in different colours
Special solutions on request

	COD		daN	A-B
175x40	**2U5T175008**	8x56	70	A
175x40	**2U5T175A12**	12x50	70	A
175x40	**2U5T175B12**	12x40	70	B
200x45	**2U5T200008**	8x56	70	A
200x45	**2U5T200A12**	12x50	70	A
200x45	**2U5T200B12**	12x40	70	B

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
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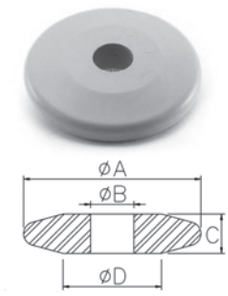
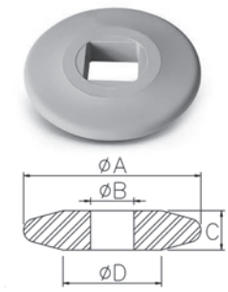
paracolpi in gomma termoplastica grigia ShA 80 / *grey thermoplastic rubber buffers ShA 80*



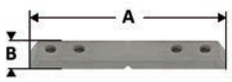
A mm	B mm	D mm	C mm	COD
90	10	50	20	**7PC090B1019**
90	12	50	20	**7PC090A1019**
90	16	50	20	**7PC090A2019**
90	19	50	20	**7PC090A3019**
90	20,5	50	20	**7PC090A4019**
90	22	50	20	**7PC090A5019**
90	25,5	50	20	**7PC090A6019**
90	28	50	20	**7PC090A7019**
90	30,5	50	20	**7PC090A9019**
90	32	50	20	**7PC090A8019**
100	12	50	20	**7PC100A1019**
100	15,5	50	20	**7PC100B2019**
100	32	50	20	**7PC100A8019**

paracolpi in gomma termoplastica grigia ShA 80 / *grey thermoplastic rubber buffers ShA 80*



A mm	B mm	D mm	C mm	COD
90	20	50	20	**7PC090C1019**
90	25	50	20	**7PC090C2019**
90	30	50	20	**7PC090C3019**
100	25	50	20	**7PC100C2019**
100	30	50	20	**7PC100C3019**

Angolari in gomma antitraccia e antitaglio colore grigio RAL 7000 o personalizzabili / *Rubber angle non marking and against cut rubber grey color RAL 7000 or personalized*



A mm	B mm	S mm	COD
75	30	15	**7AGPFG075075**
105	30	13	**7AGPFG105105**

CLASSE C

COLLETTIVITÀ

INSTITUTIONAL

CATALOGO *CATALOGUE* 2021

.

LE MIGLIORI SOLUZIONI ED IL DESIGN PER I PICCOLI DIAMETRI

Robusta gamma di ruote e supporti per tutte le applicazioni nel campo della collettività (arredamento e ufficio), utilizzabili sotto i tavoli, sedie, accessori per la casa, poltrone, letti e cassettiere, ed in grado di soddisfare anche esigenze produttive particolari. (esempio: filature, catering ecc.)

BEST CHOICES FOR SMALL DIAMETERS

Complete range of strenght wheels and castors for institutional applications such as desks, chairs, home accessories, beds and/or special equipments (i.e. textile industry, catering, etc…)

EP

RUOTE A STRUTTURA MONOLITICA IN POLIPROPILENE
POLYPROPYLENE WHEELS
Pag. 5

EN

RUOTE A STRUTTURA MONOLITICA IN POLIAMMIDE
POLYAMIDE WHEELS
Pag. 8

EG

RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA GRIGIA
PLASTIC CENTRE WHEELS WITH GREY RUBBER TYRES
Pag. 14

ED

RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA SINTETICA GRIGIA
PLASTIC CENTRE WHEELS WITH GREY SYNTHETIC RUBBER TYRES
Pag. 18

RUOTE A STRUTTURA MONOLITICA IN POLIPROPILENE

POLYPROPYLENE WHEELS

Caratteristiche Ruota

Struttura portante in polipropilene antiurto colore nero
Movimento mozzo:
alesaggio passante.
Temperatura d'impiego da +5°C a +40°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.

Wheel Features

Shock black resistant polypropylene wheel.
Type of bearing:
plain bearing.
Temperature range:from +5°C to +40°C.
Good resistance to chemicals.
Good resistance to abrasion.

	COD		daN
30x15	**2EPA030006**	6x21	25
36x15	**2EPA036006**	6x21	25
40x18	**2EPA040008**	8x21	25
50x18	**2EPA050008**	8x21	35
50x22	**2EPA050L08**	8x28	40
60x22	**2EPA060L08**	8x28	50
80x22	**2EPA080008**	8x28	55

Varianti / *Options*

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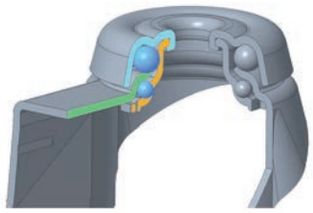
Supporto in acciaio stampato girevole
su doppio giro di sfere.
Finitura zincata.



Steel swivel housing on double ball races.
Zinc plated finishing.

girevole piastra / *swivel castor*

						COD	daN
30x15	42x42	30x30	5,2	14,5	47	**3EPA0300GL0**	25
36x15	42x42	30x30	5,2	14,5	50	**3EPA0360GL0**	25
40x18	42x42	30x30	5,2	24,5	62	**3EPA0400GL0**	25
50x18	42x42	30x30	5,2	24,5	66	**3EPA0500GL0**	35
50x18	55x55	44x44	6,2	24,5	66	**3EPA0500GL02**	35
50x22	60x60	46x46	6,2	21	72	**3EPA050LGL0**	40
60x22	60x60	46x46	6,2	21	82	**3EPA060LGL0**	50
80x22	60x60	46x46	6,2	25	103	**3EPA0800GL0**	55

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

						COD	daN
50x18	42x42	30x30	5,2	24,5	66	**3EPA0500GLD**	35
50x18	55x55	44x44	6,2	24,5	66	**3EPA0500GLD02**	35

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
30x15	8	14,5	47	**3EPA0300QL0**	25
36x15	8	14,5	50	**3EPA0360QL0**	25
40x18	8	24,5	60	**3EPA0400QL0**	25
50x18	8	24,5	66	**3EPA0500QL0**	35
50x22	10	21	73	**3EPA050LQL0**	40
60x22	10	21	82	**3EPA060LQL0**	50
80x22	10	25	103	**3EPA0800QL0**	55

girevole foro per vite freno pedale anteriore / *bolt hole swivel castor with front brake foot lever*

				COD	daN
50x18	8	24,5	66	**3EPA0500QLD**	35

girevole codolo filettato / *swivel threaded stem castor*

				COD	
30x15	M8x15	14,5	47	**3EPA0300VL0**	25
36x15	M8x15	14,5	50	**3EPA0360VL0**	25
40x18	M8x15	24,5	62	**3EPA0400VL0**	25
50x18	M8x15	24,5	66	**3EPA0500VL0**	35
50x18	M10x15	24,5	66	**3EPA0500VL02**	35
50x22	M10x15	21	72	**3EPA050LVL0**	40
60x22	M10x15	21	82	**3EPA060LVL0**	50
80x22	M10x15	25	103	**3EPA0800VL0**	55

girevole codolo filettato freno pedale anteriore / *swivel threaded stem castor with front brake foot lever*

				COD	
50x18	M8x15	24,5	66	**3EPA0500VLD**	35
50x18	M10x15	24,5	66	**3EPA0500VLD2**	35

fisso piastra / *fixed castor*

					COD	
40x18	48x48	30x30	5,2	62	**3EPA0400FL0**	25
50x18	48x48	30x30	5,2	66	**3EPA0500FL0**	35
50x18	55x55	44x44	6,2	66	**3EPA0500FL02**	35
50x22	60x60	46x46	6,2	72	**3EPA050LFL0**	40
60x22	60x60	46x46	6,2	82	**3EPA060LFL0**	50
80x22	60x60	46x46	6,2	103	**3EPA0800FL0**	55

RUOTE A STRUTTURA MONOLITICA IN POLIAMMIDE

POLYAMIDE WHEELS

Caratteristiche Ruota

Struttura portante in poliammide antiurto colore neutro
Movimento mozzo:
alesaggio passante.
Temperatura d'impiego da +5°C a +40°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione

Wheel Features

Shock resistant white polyamide wheel.
Type of bearing:
plain bearing.
Temperature range:from +5°C to +40°C.
Good resistance to chemicals.
Good resistance to abrasion.

	COD		daN
50x24	**2ENA050P08**	8x28	50
75x24	**2ENA075008**	8x28	60
75x32	**2ENA075L10**	10x36	70
100x24	**2ENA100S08**	8x28	70
100x32	**2ENA100P10**	10x36	90
125x24	**2ENA125S08**	8x28	80
125x32	**2ENA125L10**	10x36	100
150x32	**2ENA150010**	10x36	100

Varianti / *Options*

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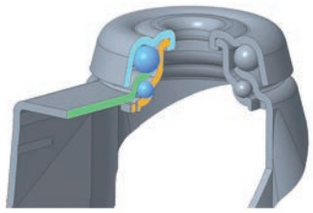
Supporto in acciaio stampato girevole
su doppio giro di sfere.
Finitura zincata.



Steel swivel housing on double ball races.
Zinc plated finishing.

girevole piastra / *swivel castor*

						COD	
50x24	60x60	43-49x43-49	6.4	25	73	**3ENA050PGM0**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	**3ENA0750GM0**	60
75x32	90x70	65-75x45-55	9	28	109	**3ENA075LGS0**	70
100x24	60x60	43-49x43-49	6.4	40	123,5	**3ENA100SGM0**	70
100x32	90x70	65-75x45-55	9	40	131,5	**3ENA100PGS0**	90
125x24	60x60	43-49x43-49	6.4	43	148,5	**3ENA125SGM0**	80
125x32	90x70	65-75x45-55	9	40	156,5	**3ENA125LGS0**	100
150x32	90x70	65-75x45-55	9	45	181,5	**3ENA1500GS0**	100

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

							COD	
50x24	60x60	43-49x43-49	6.4	25	73	86	**3ENA050PGMD**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	91	**3ENA0750GMD**	60
75x32	90x70	65-75x45-55	9	28	109	95	**3ENA075LGSD**	70
100x24	60x60	43-49x43-49	6.4	40	123,5	101	**3ENA100SGMD**	70
100x32	90x70	65-75x45-55	9	40	131,5	107	**3ENA100PGSD**	90
125x24	60x60	43-49x43-49	6.4	43	148,5	104	**3ENA125SGMD**	80
125x32	90x70	65-75x45-55	9	40	156,5	107	**3ENA125LGSD**	100
150x32	90x70	65-75x45-55	9	45	181,5	112	**3ENA1500GSD**	100

girevole foro per vite / *bolt hole swivel castor*

				COD	
50x24	10,2	25	73	**3ENA050PQM0**	50
75x24	10,2	30,5	101	**3ENA0750QM0**	60
75x32	12,2	28	109	**3ENA075LQS0**	70
100x24	10,2	40	123,5	**3ENA100SQM0**	70
100x32	12,2	40	131,5	**3ENA100PQS0**	90
125x24	10,2	43	148,5	**3ENA125SQM0**	80
125x32	12,2	40	156,5	**3ENA125LQS0**	100
150x32	12,2	45	181,5	**3ENA1500QS0**	100

girevole foro per vite freno pedale anteriore / *bolt hole swivel castor with front brake foot lever*

					COD	daN
50x24	10,2	25	73	86	**3ENA050PQMD**	50
75x24	10,2	30,5	101	91	**3ENA0750QMD**	60
75x32	12,2	28	109	95	**3ENA075LQSD**	70
100x24	10,2	40	123,5	101	**3ENA100SQMD**	70
100x32	12,2	40	131,5	107	**3ENA100PQSD**	90
125x24	10,2	43	148,5	104	**3ENA125SQMD**	80
125x32	12,2	40	156,5	107	**3ENA125LQSD**	100
150x32	12,2	45	181,5	112	**3ENA1500QSD**	100

girevole codolo filettato / *swivel threaded stem castor*

				COD	daN
50x24	M10x20	25	73	**3ENA050PVM0**	50
75x24	M10x20	30,5	101	**3ENA0750VM0**	60
75x32	M12x25	28	109	**3ENA075LVS0**	70
100x24	M10x20	40	123,5	**3ENA100SVM0**	70
100x32	M12x25	40	131,5	**3ENA100PVS0**	90
125x24	M10x20	43	148,5	**3ENA125SVM0**	80
125x32	M12x25	40	156,5	**3ENA125LVS0**	100
150x32	M12x25	45	181,5	**3ENA1500VS0**	100

girevole codolo filettato freno pedale anteriore / *swivel threaded stem castor front brake foot lever*

					COD	daN
50x24	M10x20	25	73	86	**3ENA050PVMD**	50
75x24	M10x20	30,5	101	91	**3ENA0750VMD**	60
75x32	M12x25	28	109	95	**3ENA075LVSD**	70
100x24	M10x20	40	123,5	101	**3ENA100SVMD**	70
100x32	M12x25	40	131,5	107	**3ENA100PVSD**	90
125x24	M10x20	43	148,5	104	**3ENA125SVMD**	80
125x32	M12x25	40	156,5	107	**3ENA125LVSD**	100
150x32	M12x25	45	181,5	112	**3ENA1500VSD**	100

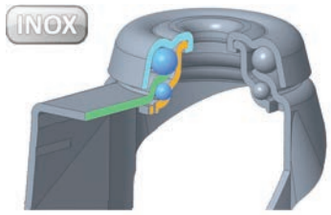
fisso piastra / *fixed castor*

					COD	daN
50x24	60x60	43-49x43-49	6.4	73	**3ENA050PFM0**	50
75x24	60x60	43-49x43-49	6.4	101	**3ENA0750FM0**	60
75x32	90x70	65-75x45-55	9	109	**3ENA075LFS0**	70
100x24	60x60	43-49x43-49	6.4	123,5	**3ENA100SFM0**	70
100x32	90x70	65-75x45-55	9	131,5	**3ENA100PFS0**	90
125x24	60x60	43-49x43-49	6.4	148,5	**3ENA125SFM0**	80
125x32	90x70	65-75x45-55	9	156,5	**3ENA125LFS0**	100
150x32	90x70	65-75x45-55	9	181,5	**3ENA1500FS0**	100

fisso foro passante / *fixed plain bearings*

			COD	
50x24	10,2	73	**3ENA050PFT0**	50
75x24	10,2	101	**3ENA0750FT0**	60
75x32	12,2	109	**3ENA075LFN0**	70
100x24	10,2	123,5	**3ENA100SFT0**	70
100x32	12,2	131,5	**3ENA100PFN0**	90
125x24	10,2	148,5	**3ENA125SFT0**	80
125x32	12,2	156,5	**3ENA125LFN0**	100
150x32	12,2	181,5	**3ENA1500FN0**	100

Supporto in acciaio stampato girevole
su doppia corona di sfere.
Finitura in acciaio INOX AISI 304



Steel swivel housing on double ball races.
Stainless steel AISI 304 finishing.

girevole piastra / *swivel castor*

						COD	daN
50x24	60x60	43-49x43-49	6.4	25	73	**3ENA050PGX0**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	**3ENA0750GX0**	60
100x24	60x60	43-49x43-49	6.4	40	123,5	**3ENA100SGX0**	70
125x24	60x60	43-49x43-49	6.4	43	148,5	**3ENA125SGX0**	80

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

							COD	daN
50x24	60x60	43-49x43-49	6.4	25	73	86	**3ENA050PGXD**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	91	**3ENA0750GXD**	60
100x24	60x60	43-49x43-49	6.4	40	123,5	101	**3ENA100SGXD**	70
125x24	60x60	43-49x43-49	6.4	43	148,5	104	**3ENA125SGXD**	80

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
50x24	10,2	25	73	**3ENA050PQX0**	50
75x24	10,2	30,5	101	**3ENA0750QX0**	60
100x24	10,2	40	123,5	**3ENA100SQX0**	70
125x24	10,2	43	148,5	**3ENA125SQX0**	80

girevole foro per vite freno pedale anteriore / *bolt hole swivel castor with front brake foot lever*

					COD	daN
50x24	10,2	25	73	86	**3ENA050PQXD**	50
75x24	10,2	30,5	101	91	**3ENA0750QXD**	60
100x24	10,2	40	123,5	101	**3ENA100SQXD**	70
125x24	10,2	43	148,5	104	**3ENA125SQXD**	80

girevole codolo filettato / *swivel threaded stem castor*

				COD	
50x24	M10x20	25	73	**3ENA050PVX0**	50
75x24	M10x20	30,5	101	**3ENA0750VX0**	60
100x24	M10x20	40	123,5	**3ENA100SVX0**	70
125x24	M10x20	43	148,5	**3ENA125SVX0**	80

girevole codolo filettato freno pedale anteriore / *swivel threaded stem castor front brake foot lever*

					COD	
50x24	M10x20	25	73	86	**3ENA050PVXD**	50
75x24	M10x20	30,5	101	91	**3ENA0750VXD**	60
100x24	M10x20	40	123,5	101	**3ENA100SVXD**	70
125x24	M10x20	43	148,5	104	**3ENA125SVXD**	80

fisso piastra / *fixed castor*

					COD	
50x24	60x60	43-49x43-49	6.4	73	**3ENA050PFX0**	50
75x24	60x60	43-49x43-49	6.4	101	**3ENA0750FX0**	60
100x24	60x60	43-49x43-49	6.4	123,5	**3ENA100SFX0**	70
125x24	60x60	43-49x43-49	6.4	148,5	**3ENA125SFX0**	80

fisso foro passante / *fixed plain bearings*

			COD	
50x24	10,2	73	**3ENA050PFZ0**	50
75x24	10,2	101	**3ENA0750FZ0**	60
100x24	10,2	123,5	**3ENA100SFZ0**	70
125x24	10,2	148,5	**3ENA125SFZ0**	80

RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA GRIGIA E PARAFILI

PLASTIC CENTRE WHEELS WITH GREY RUBBER TYRES AND THREAD GUARDS

Caratteristiche Ruota

Anello in gomma grigia.
Struttura portante in polipropilene antiurto colore nero
Doppi dischi parafili
Movimento mozzo:
alesaggio passante.
Temperatura d'impiego da +5°C a +40°C.
Discreta resistenza agli aggressivi chimici.
Discreta resistenza all'abrasione.

Wheel Features

Grey rubber tyre
Black shock resistant polypropylene centre wheel.
Thread guards
Type of bearing:
plain bearing.
Temperature range:from +5°C to +40°C.
Fair resistance to chemicals.
Fair resistance to abrasion.

	COD		daN
50x18	**2EGA050006P**	6x20	35
50x24	**2EGA050L06P**	6x30	40
60x24	**2EGA060L06P**	6x30	50
75x24	**2EGA075006P**	6x30	40
80x24	**2EGA080006P**	6x30	55
100x24	**2EGA100006P**	6x30	55
125x30	**2EGA125008P**	8x36	80

Varianti / *Options*

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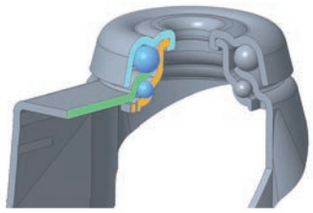
Supporto in acciaio stampato girevole
su doppio giro di sfere.
Finitura zincata.



Steel swivel housing on double ball races.
Zinc plated finishing.

girevole piastra / *swivel castor*

						COD	daN
50x18	42x42	30x30	5	24,5	66	**3EGA0500GL0P**	35
50x18	55x55	44x44	6	24,5	66	**3EGA0500GL02P**	35
50x24	60x60	46x46	6	21	72	**3EGA050LGL0P**	40
60x24	60x60	46x46	6	21	82	**3EGA060LGL0P**	50
80x24	60x60	46x46	6	25	103	**3EGA0800GL0P**	55
100x24	60x60	46x46	6	32	121	**3EGA1000GL0P**	55
125x30	60x60	46x46	6	40	149	**3EGA1250GL0P**	80

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

						COD	daN
50x18	42x42	30x30	5	24,5	66	**3EGA0500GLDP**	35
50x18	55x55	44x44	6	24,5	66	**3EGA0500GLD2P**	35
50x24	60x60	46x46	6	21	72	**3EGA050LGLDP**	40
60x24	60x60	46x46	6	21	82	**3EGA060LGLDP**	50
80x24	60x60	46x46	6	25	103	**3EGA0800GLDP**	55
100x24	60x60	46x46	6	32	121	**3EGA1000GLDP**	55
125x30	60x60	46x46	6	40	149	**3EGA1250GLDP**	80

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
50x18	8		24,5	66	**3EGA0500QL0P**	35
50x24	10		21	72	**3EGA050LQL0P**	40
60x24	10		21	82	**3EGA060LQL0P**	50
80x24	10		25	103	**3EGA0800QL0P**	55
100x24	10		32	121	**3EGA1000QL0P**	55
125x30	12		40	149	**3EGA1250QL0P**	80

girevole foro per vite freno pedale anteriore / *bolt hole swivel castor with front brake foot lever*

					COD	daN
50x18	8		24,5	66	**3EGA0500QLDP**	35
50x24	10		21	72	**3EGA050LQLDP**	40
60x24	10		21	82	**3EGA060LQLDP**	50
80x24	10		25	103	**3EGA0800QLDP**	55
100x24	10		32	121	**3EGA1000QLDP**	55
125x30	12		40	149	**3EGA1250QLDP**	80

girevole codolo filettato / *swivel threaded stem castor*

				COD	daN
50x18	M8x15	24,5	66	**3EGA0500VL0P**	35
50x18	M10x20	24,5	66	**3EGA0500VL02P**	35
50x24	M10x15	21	72	**3EGA050LVL0P**	40
60x24	M12x25	21	82	**3EGA060LVL0P**	50
80x24	M12x25	25	103	**3EGA0800VL0P**	55
100x24	M12x25	32	121	**3EGA1000VL0P**	55
125x30	M12x25	40	149	**3EGA1250VL0P**	80

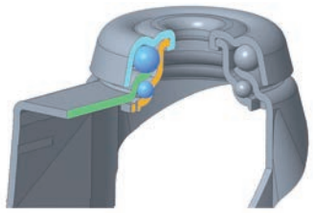
girevole codolo filettato freno pedale anteriore / *swivel threaded stem castor with front brake foot lever*

				COD	daN
50x18	M8x15	24,5	66	**3EGA0500VLDP**	35
50x18	M10x20	24,5	66	**3EGA0500VLD2P**	35
50x24	M10x15	21	72	**3EGA050LVLDP**	40
60x24	M12x25	21	82	**3EGA060LVLDP**	50
80x24	M12x25	25	103	**3EGA0800VLDP**	55
100x24	M12x25	32	121	**3EGA1000VLDP**	55
125x30	M12x25	40	149	**3EGA1250VLDP**	80

fisso piastra / *fixed castor*

					COD	daN
50x18	55x55	44x44	6	66	**3EGA0500FL02P**	35
50x24	60x60	46x46	6	72	**3EGA050LFL0P**	40
60x24	60x60	46x46	6	82	**3EGA060LFL0P**	50
80x24	60x60	46x46	6	103	**3EGA0800FL0P**	55
100x24	60x60	46x46	6	121	**3EGA1000FL0P**	55
125x30	105x85	80x60	9	149	**3EGA1250FL0P**	80

Supporto in acciaio stampato girevole
su doppio giro di sfere.
Finitura zincata.



Steel swivel housing on double ball races.
Zinc plated finishing.

girevole piastra / *swivel castor*

						COD	daN
50x18	60x60	46x46	6	30	72	**3EGA0500GL0DP**	60
75x24	60x60	46x46	6	33	102	**3EGA0750GL0DP**	80

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

						COD	daN
50x18	60x60	46x46	6	30	72	**3EGA0500GLDDP**	60
75x24	60x60	46x46	6	33	102	**3EGA0750GLDDP**	80

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
50x18	10	30	72	**3EGA0500QL0DP**	60
75x24	10	33	99	**3EGA0750QL0DP**	80

girevole foro per vite freno pedale anteriore / *bolt hole swivel castor with front brake foot lever*

				COD	daN
50x18	10	30	72	**3EGA0500QLDDP**	60
75x24	10	33	99	**3EGA0750QLDDP**	80

girevole codolo filettato / *swivel threaded stem castor*

				COD	daN
50x18	M10x15	30	72	**3EGA0500VL0DP**	60
75x24	M12x25	33	99	**3EGA0750VL0DP**	80

girevole codolo filettato freno pedale anteriore / *swivel threaded stem castor with front brake foot lever*

				COD	daN
50x18	M10x15	30	72	**3EGA0500VLDDP**	60
75x24	M12x25	33	99	**3EGA0750VLDDP**	80

RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA SINTETICA GRIGIA

PLASTIC CENTRE WHEELS WITH GREY SYNTHETIC RUBBER TYRES

Caratteristiche Ruota

Anello in gomma sintetica grigia.
Struttura portante in polipropilene antiurtocolore grigio.
Movimento mozzo:
alesaggio passante.
Temperatura d'impiego da -5°C a +40°C.
Discreta resistenza agli aggressivi chimici.
Discreta resistenza all'abrasione.

Wheel Features

Synthetic grey rubber tyre
Shock resistant grey polypropylene centre wheel.
Type of bearing:
plain bearing.
Temperature range:from +5°C to +40°C.
Fair resistance to chemicals.
Fair resistance to abrasion.

	COD		daN
50x24	**2EDA050P08**	8x28	50
75x24	**2EDA075008**	8x28	60
75x32	**2EDA075L10**	10x36	70
100x24	**2EDA100S08**	8x28	70
100x32	**2EDA100P10**	10x36	90
125x24	**2EDA125S08**	8x28	80
125x32	**2EDA125L10**	10x36	100
150x32	**2EDA150010**	10x36	100

Varianti / *Options*

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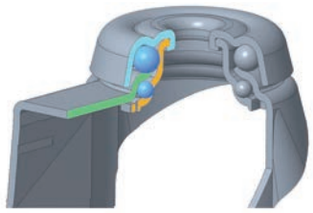
Supporto in acciaio stampato girevole
su doppio giro di sfere.
Finitura zincata.



Steel swivel housing on double ball races.
Zinc plated finishing.

girevole piastra / *swivel castor*

						COD	daN
50x24	60x60	43-49x43-49	6.4	25	73	**3EDA050PGM0**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	**3EDA0750GM0**	60
75x32	90x70	65-75x45-55	9	28	109	**3EDA075LGS0**	70
100x24	60x60	43-49x43-49	6.4	40	123,5	**3EDA100SGM0**	70
100x32	90x70	65-75x45-55	9	40	131,5	**3EDA100PGS0**	90
125x24	60x60	43-49x43-49	6.4	43	148,5	**3EDA125SGM0**	80
125x32	90x70	65-75x45-55	9	40	156,5	**3EDA125LGS0**	100
150x32	90x70	65-75x45-55	9	45	181,5	**3EDA1500GS0**	100

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

							COD	daN
50x24	60x60	43-49x43-49	6.4	25	73	86	**3EDA050PGMD**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	91	**3EDA0750GMD**	60
75x32	90x70	65-75x45-55	9	28	109	95	**3EDA075LGSD**	70
100x24	60x60	43-49x43-49	6.4	40	123,5	101	**3EDA100SGMD**	70
100x32	90x70	65-75x45-55	9	40	131,5	107	**3EDA100PGSD**	90
125x24	60x60	43-49x43-49	6.4	43	148,5	104	**3EDA125SGMD**	80
125x32	90x70	65-75x45-55	9	40	156,5	107	**3EDA125LGSD**	100
150x32	90x70	65-75x45-55	9	45	181,5	112	**3EDA1500GSD**	100

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
50x24	10,2	25	73	**3EDA050PQM0**	50
75x24	10,2	30,5	101	**3EDA0750QM0**	60
75x32	12,2	28	109	**3EDA075LQS0**	70
100x24	10,2	40	123,5	**3EDA100SQM0**	70
100x32	12,2	40	131,5	**3EDA100PQS0**	90
125x24	10,2	43	148,5	**3EDA125SQM0**	80
125x32	12,2	40	156,5	**3EDA125LQS0**	100
150x32	12,2	45	181,5	**3EDA1500QS0**	100

girevole foro per vite freno pedale anteriore / *bolt hole swivel castor with front brake foot lever*

					COD	daN
50x24	10,2	25	73	86	**3EDA050PQMD**	50
75x24	10,2	30,5	101	91	**3EDA0750QMD**	60
75x32	12,2	28	109	95	**3EDA075LQSD**	70
100x24	10,2	40	123,5	101	**3EDA100SQMD**	70
100x32	12,2	40	131,5	107	**3EDA100PQSD**	90
125x24	10,2	43	148,5	104	**3EDA125SQMD**	80
125x32	12,2	40	156,5	107	**3EDA125LQSD**	100
150x32	12,2	45	181,5	112	**3EDA1500QSD**	100

girevole codolo filettato / *swivel threaded stem castor*

				COD	daN
50x24	M10x20	25	73	**3EDA050PVM0**	50
75x24	M10x20	30,5	101	**3EDA0750VM0**	60
75x32	M12x25	28	109	**3EDA075LVS0**	70
100x24	M10x20	40	123,5	**3EDA100SVM0**	70
100x32	M12x25	40	131,5	**3EDA100PVS0**	90
125x24	M10x20	43	148,5	**3EDA125SVM0**	80
125x32	M12x25	40	156,5	**3EDA125LVS0**	100
150x32	M12x25	45	181,5	**3EDA1500VS0**	100

girevole codolo filettato freno pedale anteriore / *swivel threaded stem castor front brake foot lever*

					COD	daN
50x24	M10x20	25	73	86	**3EDA050PVMD**	50
75x24	M10x20	30,5	101	91	**3EDA0750VMD**	60
75x32	M12x25	28	109	95	**3EDA075LVSD**	70
100x24	M10x20	40	123,5	101	**3EDA100SVMD**	70
100x32	M12x25	40	131,5	107	**3EDA100PVSD**	90
125x24	M10x20	43	148,5	104	**3EDA125SVMD**	80
125x32	M12x25	40	156,5	107	**3EDA125LVSD**	100
150x32	M12x25	45	181,5	112	**3EDA1500VSD**	100

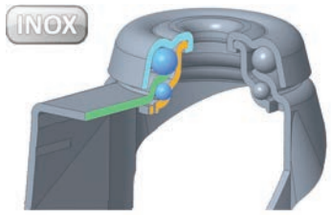
fisso piastra / *fixed castor*

					COD	daN
50x24	60x60	43-49x43-49	6.4	73	**3EDA050PFM0**	50
75x24	60x60	43-49x43-49	6.4	101	**3EDA0750FM0**	60
75x32	90x70	65-75x45-55	9	109	**3EDA075LFS0**	70
100x24	60x60	43-49x43-49	6.4	123,5	**3EDA100SFM0**	70
100x32	90x70	65-75x45-55	9	131,5	**3EDA100PFS0**	90
125x24	60x60	43-49x43-49	6.4	148,5	**3EDA125SFM0**	80
125x32	90x70	65-75x45-55	9	156,5	**3EDA125LFS0**	100
150x32	90x70	65-75x45-55	9	181,5	**3EDA1500FS0**	100

fisso foro passante / *fixed plain bearings*

			COD	
50x24	10,2	73	**3EDA050PFT0**	50
75x24	10,2	101	**3EDA0750FT0**	60
75x32	12,2	109	**3EDA075LFN0**	70
100x24	10,2	123,5	**3EDA100SFT0**	70
100x32	12,2	131,5	**3EDA100PFN0**	90
125x24	10,2	148,5	**3EDA125SFT0**	80
125x32	12,2	156,5	**3EDA125LFN0**	100
150x32	12,2	181,5	**3EDA1500FN0**	100

Supporto in acciaio stampato girevole
su doppia corona di sfere.
Finitura in acciaio INOX AISI 304



Steel swivel housing on double ball races.
Stainless steel AISI 304 finishing.

girevole piastra / *swivel castor*

						COD	daN
50x24	60x60	43-49x43-49	6.4	25	73	**3EDA050PGX0**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	**3EDA0750GX0**	60
100x24	60x60	43-49x43-49	6.4	40	123,5	**3EDA100SGX0**	70
125x24	60x60	43-49x43-49	6.4	43	148,5	**3EDA125SGX0**	80

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

							COD	daN
50x24	60x60	43-49x43-49	6.4	25	73	86	**3EDA050PGXD**	50
75x24	60x60	43-49x43-49	6.4	30,5	101	91	**3EDA0750GXD**	60
100x24	60x60	43-49x43-49	6.4	40	123,5	101	**3EDA100SGXD**	70
125x24	60x60	43-49x43-49	6.4	43	148,5	104	**3EDA125SGXD**	80

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
50x24	10,2	25	73	**3EDA050PQX0**	50
75x24	10,2	30,5	101	**3EDA0750QX0**	60
100x24	10,2	40	123,5	**3EDA100SQX0**	70
125x24	10,2	43	148,5	**3EDA125SQX0**	80

girevole foro per vite freno pedale anteriore / *bolt hole swivel castor with front brake foot lever*

					COD	daN
50x24	10,2	25	73	86	**3EDA050PQXD**	50
75x24	10,2	30,5	101	91	**3EDA0750QXD**	60
100x24	10,2	40	123,5	101	**3EDA100SQXD**	70
125x24	10,2	43	148,5	104	**3EDA125SQXD**	80

girevole codolo filettato / *swivel threaded stem castor*

				COD	daN
50x24	M10x20	25	73	**3EDA050PVX0**	50
75x24	M10x20	30,5	101	**3EDA0750VX0**	60
100x24	M10x20	40	123,5	**3EDA100SVX0**	70
125x24	M10x20	43	148,5	**3EDA125SVX0**	80

girevole codolo filettato freno pedale anteriore / *swivel threaded stem castor front brake foot lever*

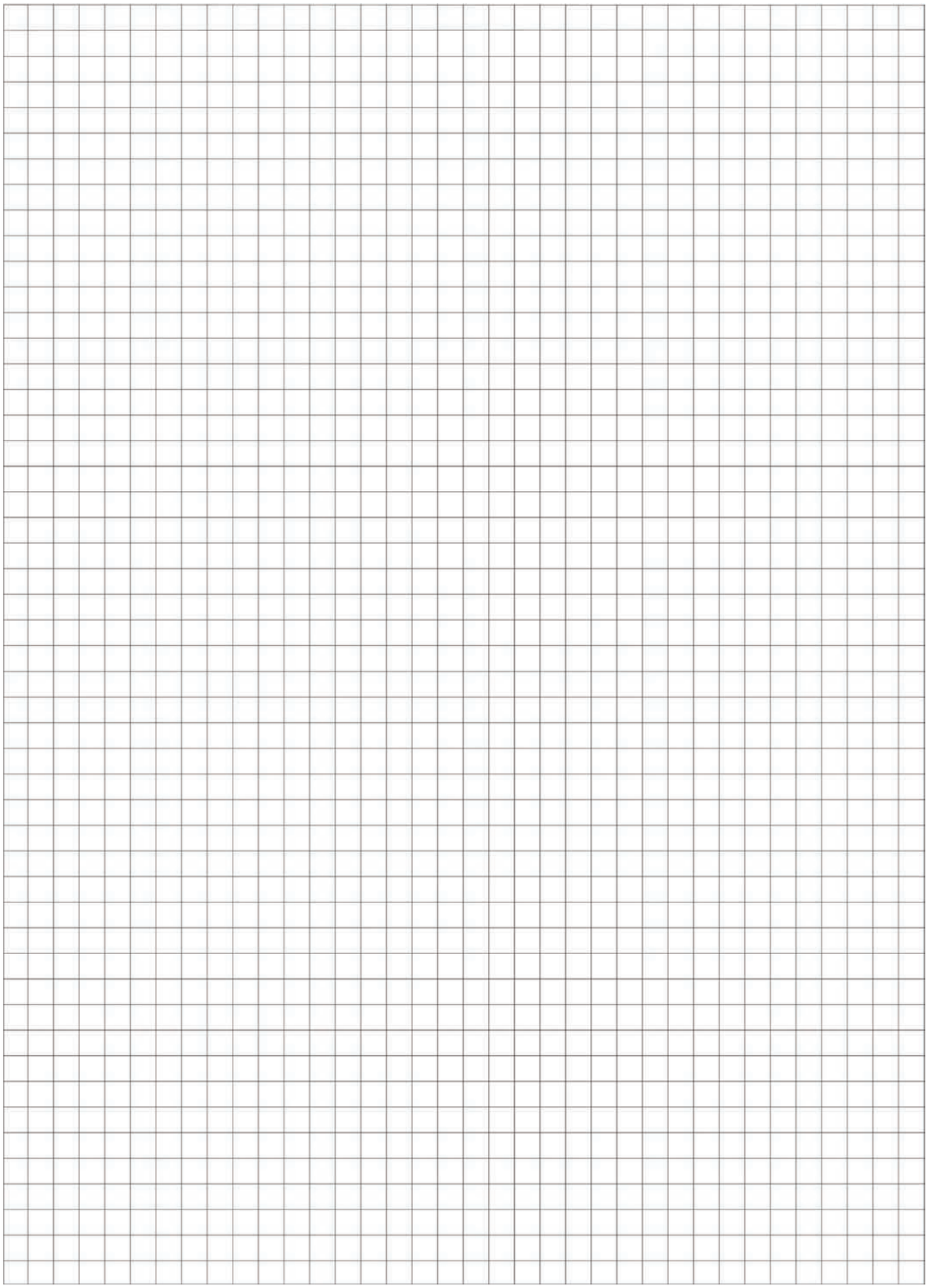
					COD	daN
50x24	M10x20	25	73	86	**3EDA050PVXD**	50
75x24	M10x20	30,5	101	91	**3EDA0750VXD**	60
100x24	M10x20	40	123,5	101	**3EDA100SVXD**	70
125x24	M10x20	43	148,5	104	**3EDA125SVXD**	80

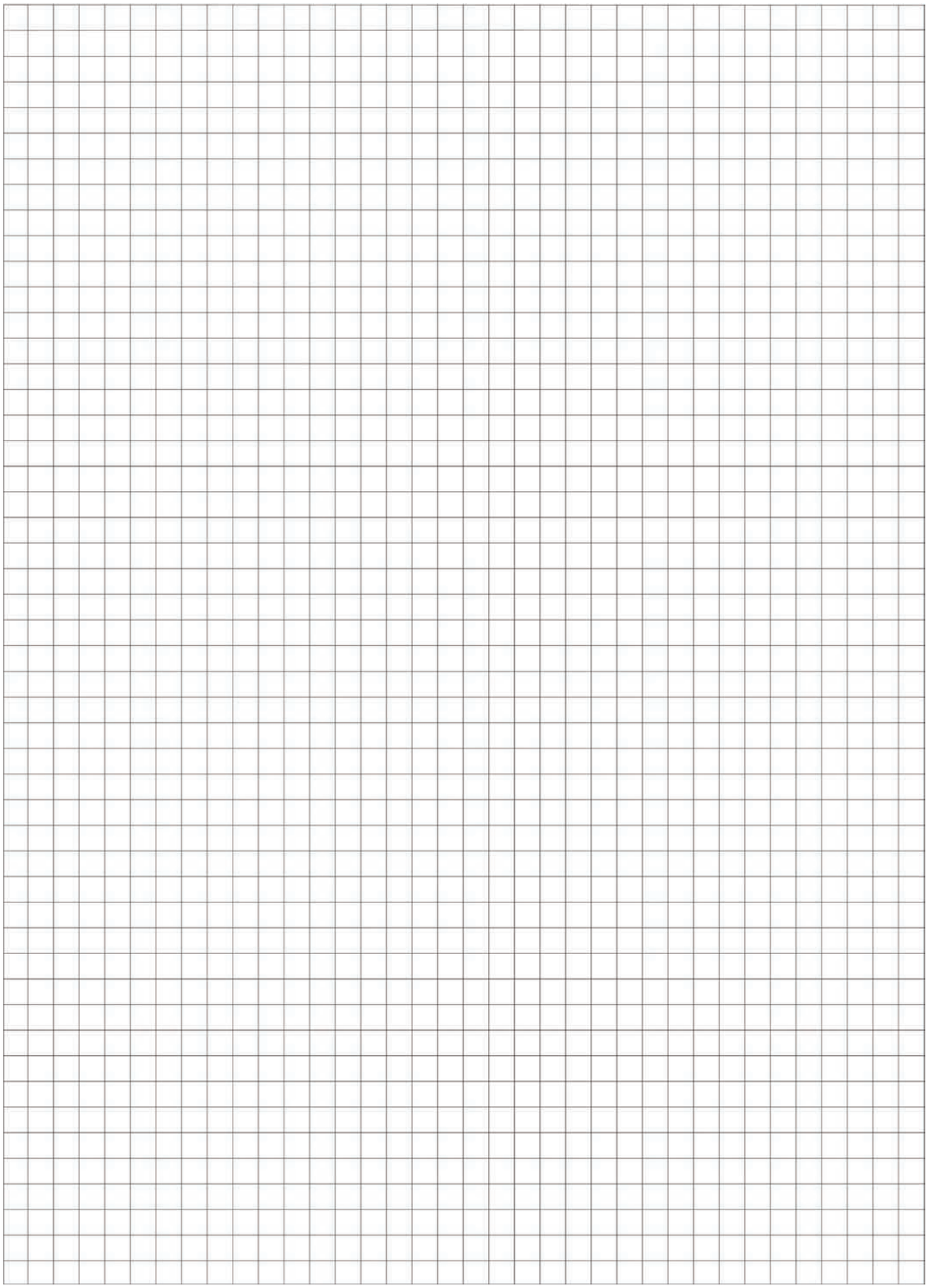
fisso piastra / *fixed castor*

					COD	daN
50x24	60x60	43-49x43-49	6.4	73	**3EDA050PFX0**	50
75x24	60x60	43-49x43-49	6.4	101	**3EDA0750FX0**	60
100x24	60x60	43-49x43-49	6.4	123,5	**3EDA100SFX0**	70
125x24	60x60	43-49x43-49	6.4	148,5	**3EDA125SFX0**	80

fisso foro passante / *fixed plain bearings*

			COD	daN
50x24	10,2	73	**3EDA050PFZ0**	50
75x24	10,2	101	**3EDA0750FZ0**	60
100x24	10,2	123,5	**3EDA100SFZ0**	70
125x24	10,2	148,5	**3EDA125SFZ0**	80





CLASSE CL
CLEANING

CATALOGO *CATALOGUE* 2021

.

TECNOLOGIA E RICERCA COSTANTE PER PRODOTTI AD ELEVATA PERFORMANCE

Ruote progettate specificamente per il settore “Cleaning”
L’impiego di materie prime innovative e di alta qualità, assicura le migliori prestazioni nelle più differenti condizioni di utilizzo e tipologie di pavimentazione.

TECHNOLOGY AND CONTINUOUS DEVELOPMENT FOR HIGH-PERFORMANCES PRODUCTS

Wheels enginerred specifically for the professional “Cleaning” industry
Highest standard and most innovative raw materials assure the best perfomances in every kind of application and flooring type.

CAMPI DI APPLICAZIONE

Macchine per la pulizia industriale.
Ottima resistenza agli aggressivi chimici
Impieghi con macchinari anche molto movimentati
Consigliati per trazione manuale e meccanica

FIELDS OF APPLICATION AND MAIN CHARACTERISTICS

Industrial cleaning machines
Frequent machine uses
Perfect for manual and driven traction
Highest resistance to chemicals

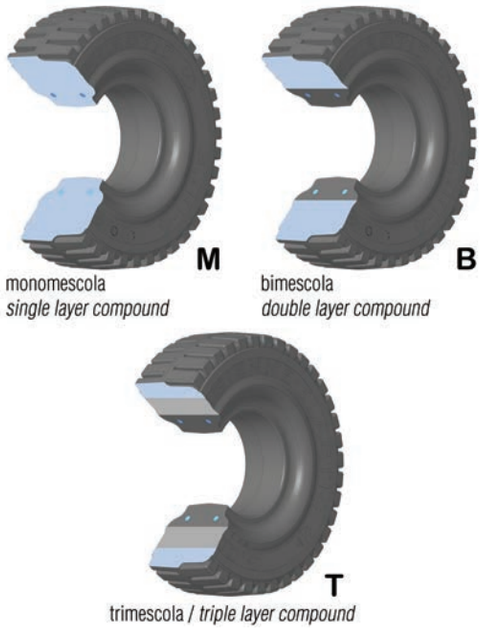
GOMME ELASTICHE
ELASTIC TYRES

Caratteristiche

Le gomme superelastiche associano alle normali caratteristiche dei pneumatici industriali i vantaggi delle ruote piene.
Possono essere montate su normali cerchioni e possono operare normalmente in condizioni di sicurezza fino ad una velocità di 25 km/h.
Le gomme vengono utilizzate senza problemi in tutti i settori industriali.
I vari strati che le compongono (tallone, fascia centrale e battistrada) sono state studiate specificatamente per le necessità industriali ed ottimizzate nel corso di oltre vent'anni di esperienza.

Features

Superelastic tyres combine the characteristic features of industrial pneumatic tyres with the advantages of solid rubber tyres.
They can be mounted on pneumatic tyre rims and are officially approved for a speed of 25 Km/h (15 m.p.h.) tyres are found as reliable and accepted patners in every branch of industry.
The construction components (tread, centre, base part) were developed to meet every requirement of the industrial vehicle industry and have been optimized in the course of over 20 years' experience.



monescola *single layer compound*
bimescola *double layer compound*
trimescola / *triple layer compound*

	COD	inch	cerchio *rims*	Sh.A	Tipo Gomma *rubber type*	Tipo *Type*	Profilo *Profile*	Colore *Colors*	daN
200x80-4"	**8PE0008004CBG**		2.10-4	80±5	M	3	BT	G	230
200x80-4"	**8PE0008004ARD**		2.10-4	65±5	B	3	R	G	230
200x80-4"	**8PE0008004ARG**		2.10-4	80±5	M	3	R	G	230
200x80-4"	**8PE0008004ARN**		2.10-4	80±5	M	1	R	N	230
200x80-4"	**8PE0008004CBS**		2.10-4	80±5	M	1	BT	N	230
230x80-4"	**8PE0008004BBC**		2.10-4	80±5	M	1	BR	N	230
250x85-4"	**8PE0008504ABR**		2.10-4	85±5	M	1	BR	N	230
252x82	**8PP0003004A10**	3.00-4	2.10-4	80±3	T	3	T	M	260
252x82	**8PV0003004AS**	3.00-4	2.10-4	60±3	T	5	T	A	260
252x82	**8GN0003004ABS**	3.00-4	2.10-4	71±5	T	1	BT	N	260
252x82	**8PB0003004AS**	3.00-4	2.10-4	67±3	B	1	T	N	260
252x82	**8PA0003006AS**	3.00-6	2.50C-6	53±3	T	2	T	M	260
252x82	**8PP0003006A10**	3.00-6	2.50C-6	80±3	T	3	T	M	260
252x82	**8PA0003004ABS**	3.00-4	2.10-4	53±3	T	2	B	M	260
252x82	**8PV0003006AS**	3.00-6	2.50C-6	60±3	T	5	T	A	260
252x82	**8GN0003004AS**	3.00-4	2.10-4	71±5	T	1	T	N	260
252x82	**8GN0003006AS**	3.00-6	2.50C-6	71±5	T	1	T	N	260
252x82	**8PE0003004ASN**	3.00-4	2.10-4	80±5	M	1	T	N	260
252x82	**8PE0003004AS**	3.00-4	2.10-4	69±5	M	1	T	G	260
252x82	**8PE0003006AS**	3.00-4	2.50C-6	69±3	M	1	T	G	260
252x82	**8PE0003004ABS**	3.00-4	2.10-4	69±3	M	1	B	G	260
300x90	**8GG300090A0S**		2.50C-6	65±5	T	3	T	G	450
300x90	**8PA300090A0S**		2.50C-6	53±3	T	2	T	M	450
306x92	**8GG0004006ASR**	4.00-6SR	2.50C-6	65±5	T	3	T	G	450
306x92	**8PV0004004AS**	4.00-4	2.50C-4	60±3	T	5	RT	A	450
306x92	**8PP0004004A10**	4.00-4	2.50C-4	80±3	T	3	RT	M	450
306x92	**8GN0004006ASR**	4.00-6SR	2.50C-6	71±5	T	1	T	N	450
306x92	**8PV0004006ASR**	4.00-6SR	2.50C-6	60±3	T	5	T	A	450
306x92	**8PA0004004AS**	4.00-4	2.50C-4	53±3	T	2	RT	M	450
306x92	**8PP0004006A10**	4.00-6SR	2.50C-6	80±3	T	3	RT	M	450
306x92	**8PA0004006ASR**	4.00-6SR	2.50C-6	53±3	T	2	T	M	450
306x92	**8GN0004004AS**	4.00-4	2.50C-4	71±5	T	1	RT	N	450

	COD	inch	cerchio rims	Sh.A	Tipo Gomma rubber type	Tipo Type	Profilo Profile	Colore Colors	daN
306x92	**8PE0004006ASR**	4.00-6SR	2.50C-6	53±3	M	2	T	G	450
350x105	**8PA0004006AS**	4.00-6	2.50C-6	53±3	T	2	RT	M	600
350x105	**8GN0004006AS**	4.00-6	2.50C-6	71±5	T	1	T	N	600
406x106	**8GG0004008AR**	4.00-8	3.00D-8	75±5	T	3	R	G	500
406x106	**8PV0004008AR**	4.00-8	3.00D-8	60±3	T	5	RT	A	500
406x106	**8GN0004008AR**	4.00-8	3.00D-8	80±5	T	1	R	N	500

Legenda / *Legend*

Tipo
Type

1: antiabrasiva
2: antiabrasiva antitraccia
3: antitraccia
4: antiscivolo
5: antiscivolo antitraccia

1: *abrasion proof*
2: *abrasion proof and non marking*
3: *non marking*
4: *non slip*
5: *non slip and non marking*

Profilo
Profile

T: tassellato
B: bombato
BR: bombato rigato
R: rigato
RT: rigato tassellato

T: *knobs block tread*
B: *rounded tread pattern*
BR: *rounded and rib tread patern*
R: *tread patern*
RT: *knobs rib pattern with stripes guides*

Colore
Colors

N: nero
G: grigio
M: marrone
A: avorio

N: *black*
G: *grey*
M: *brown*
A: *ivory*

SERIE N20

RUOTE IN POLIAMMIDE PA6-GF18
RIVESTIMENTO IN POLIURETANO 85 Sh.A
colore grigio RAL 7012
disponibile con foro liscio con chiavetta o cuscinetti a tenuta stagna

PA6-GF18 POLYAMIDE CENTRE WHEELS WITH
POLYURETHANE TREAD 85 Sh.A
Grey RAL 7012
Type of bearing: key way or double waterproof ball bearings.

SERIE N2A

RUOTE IN POLIPROPILENE CARICATO RIVESTIMENTO IN TPE INNOVATIVO 75 Sh.A
colore grigio RAL 7012
disponibile con foro liscio con chiavetta o cuscinetti a tenuta stagna

POLYPROPYLENE CENTRE WHEELS WITH NEW TPE TREAD 75 Sh.A
Grey RAL 7012
Type of bearing: key way or double waterproof ball bearings.

SERIE N2B

RUOTE IN POLIAMMIDE PA6-GF18 RIVESTIMENTO IN GOMMA TERMOPLASTICA 85 Sh.A
colore grigio RAL 7037
disponibile con foro liscio con chiavetta o cuscinetti a tenuta stagna

PA6-GF18 POLYAMIDE CENTRE WHEELS WITH
THERMOPLASTIC RUBBER TREAD 85 Sh.A
Grey RAL 7037
Type of bearing: key way or double waterproof ball bearings.

SERIE N2C

RUOTE IN POLIAMMIDE PA6-GF18 RIVESTIMENTO ANTISLIP 72 Sh.A
colore grigio RAL 7037
disponibile con foro liscio con chiavetta o cuscinetti a tenuta stagna

PA6-GF18 POLYAMIDE CENTRE WHEELS WITH NONSPLIP TREAD 72 Sh.A
Grey RAL 7037
Type of bearing: key way or double waterproof ball bearings.

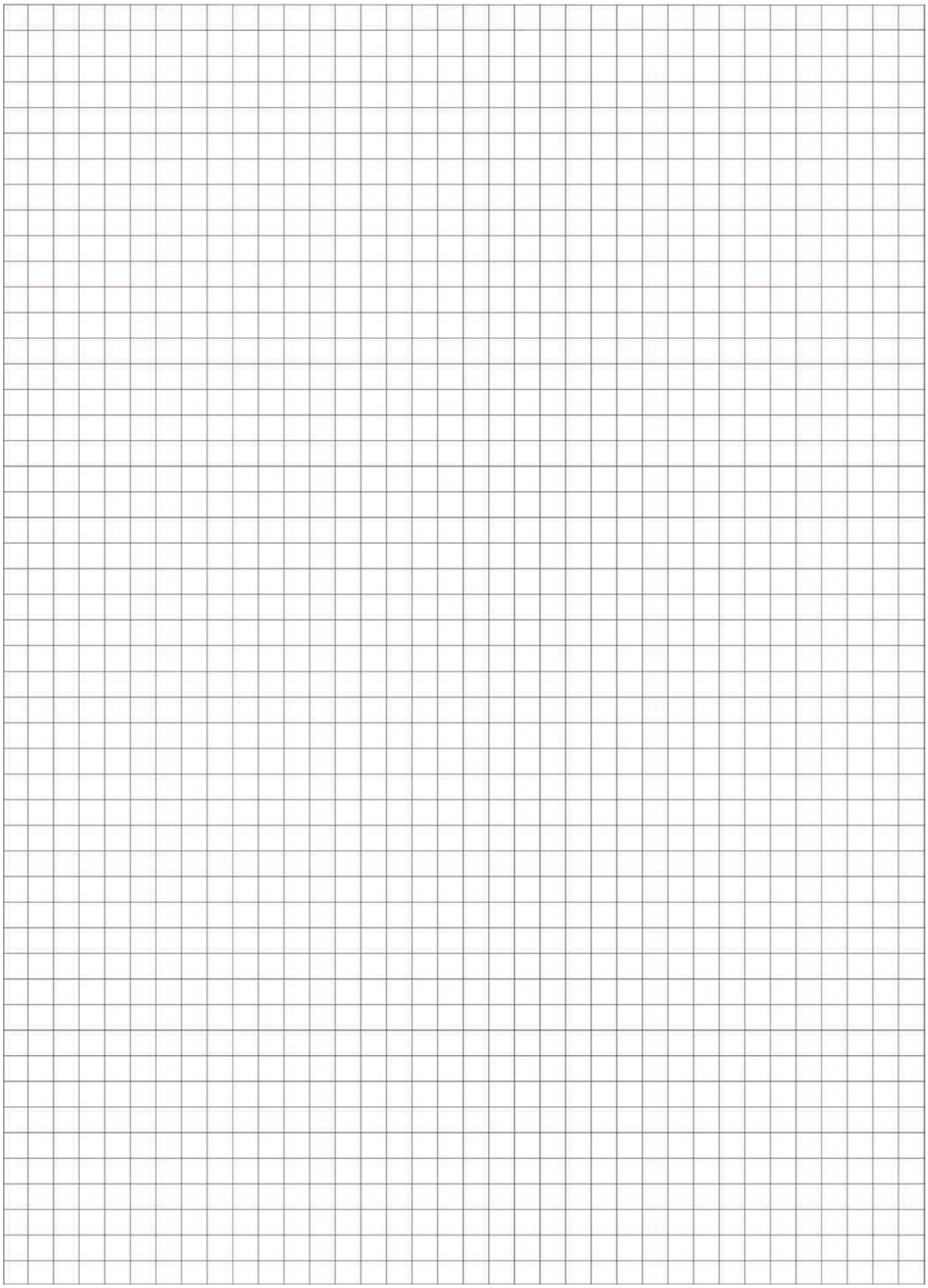
SERIE N2A-H

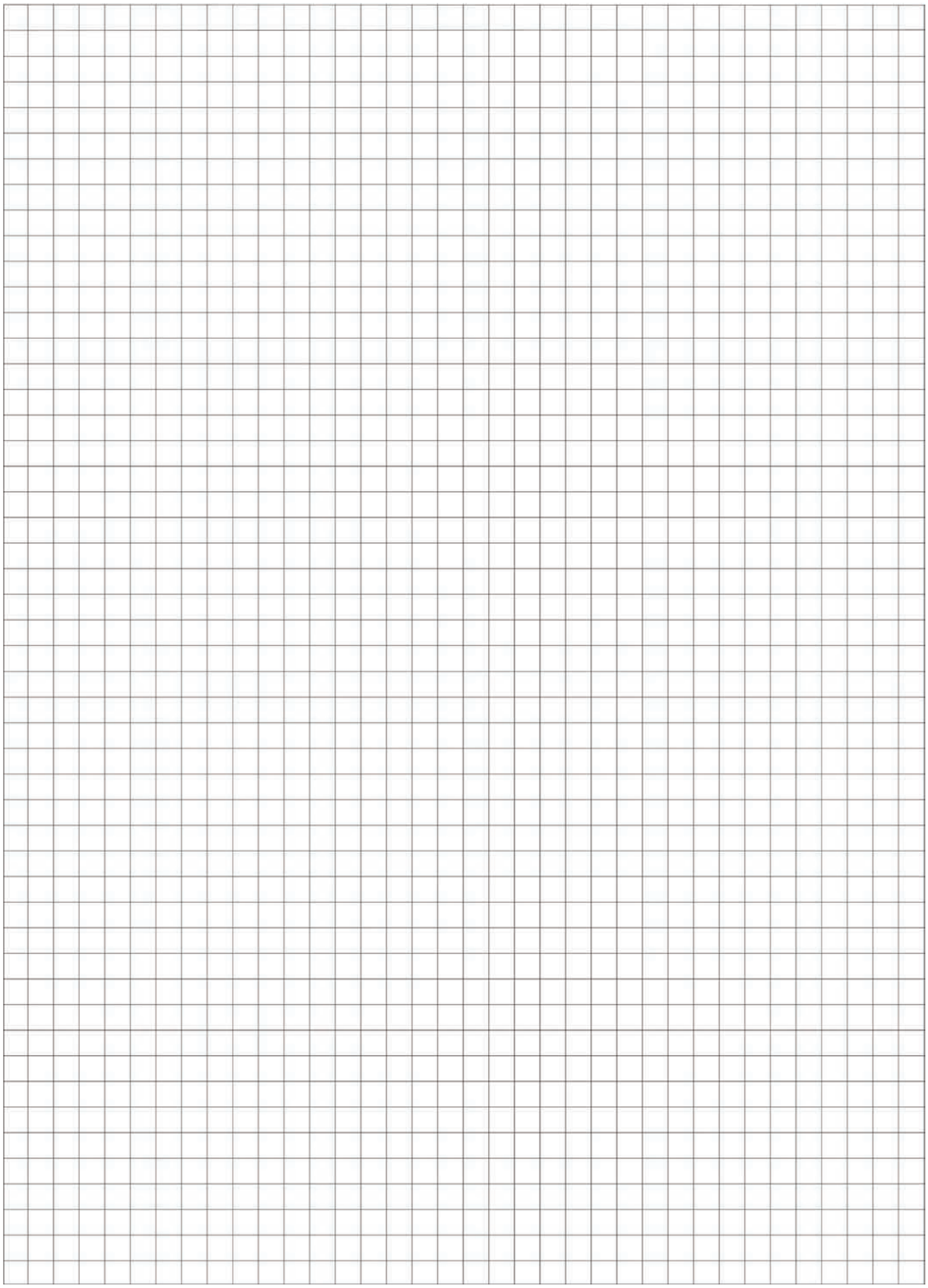
RUOTE IN POLIAMMIDE PA6-GF18 RIVESTIMENTO IN PU COLATO 72 Sh.A
colori disponibili giallo, blu o grigio
disponibile con foro liscio con chiavetta o cuscinetti a tenuta stagna

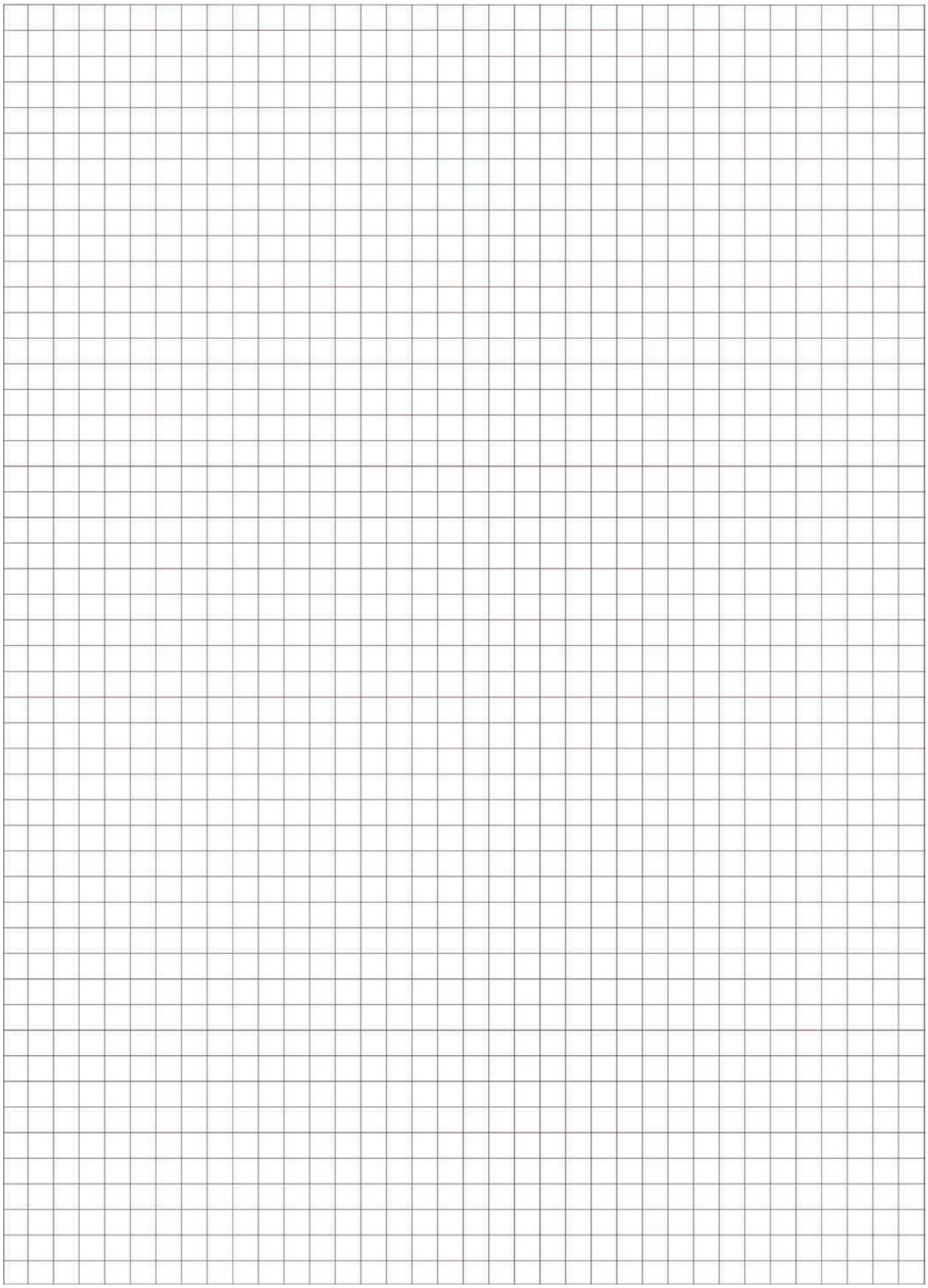
PA6-GF18 POLYAMIDE CENTRE WHEELS WITH
CAST POLYURETHANE TREAD
color: grey or bleu or yellow
Type of bearing: key way or double waterproof ball bearings.

Possibilità di personalizzazione dei colori

Possibility to personalize the coloUrs







CLASSE 1

GOMMA STANDARD

STANDARD RUBBER

CATALOGO *CATALOGUE* 2021

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AFFIDABILITA'

Ruote standard, ma altamente affidabili
con disco in materiale plastico
antiurto o in acciaio stampato e zincato.

RELIABILITY

Standard rubber wheels with shock resistant plastic or pressed-zinc plated rims for high reliability.

CAMPI DI APPLICAZIONE

Impieghi per attrezzature poco movimentate
e con utilizzo saltuario

Buona resistenza agli agressivi chimici e
all'abrasione

Consigliati per mezzi a trazione manuale.

FIELDS OF APPLICATION

Suitable for equipments and devices with limited movement or occasional use.

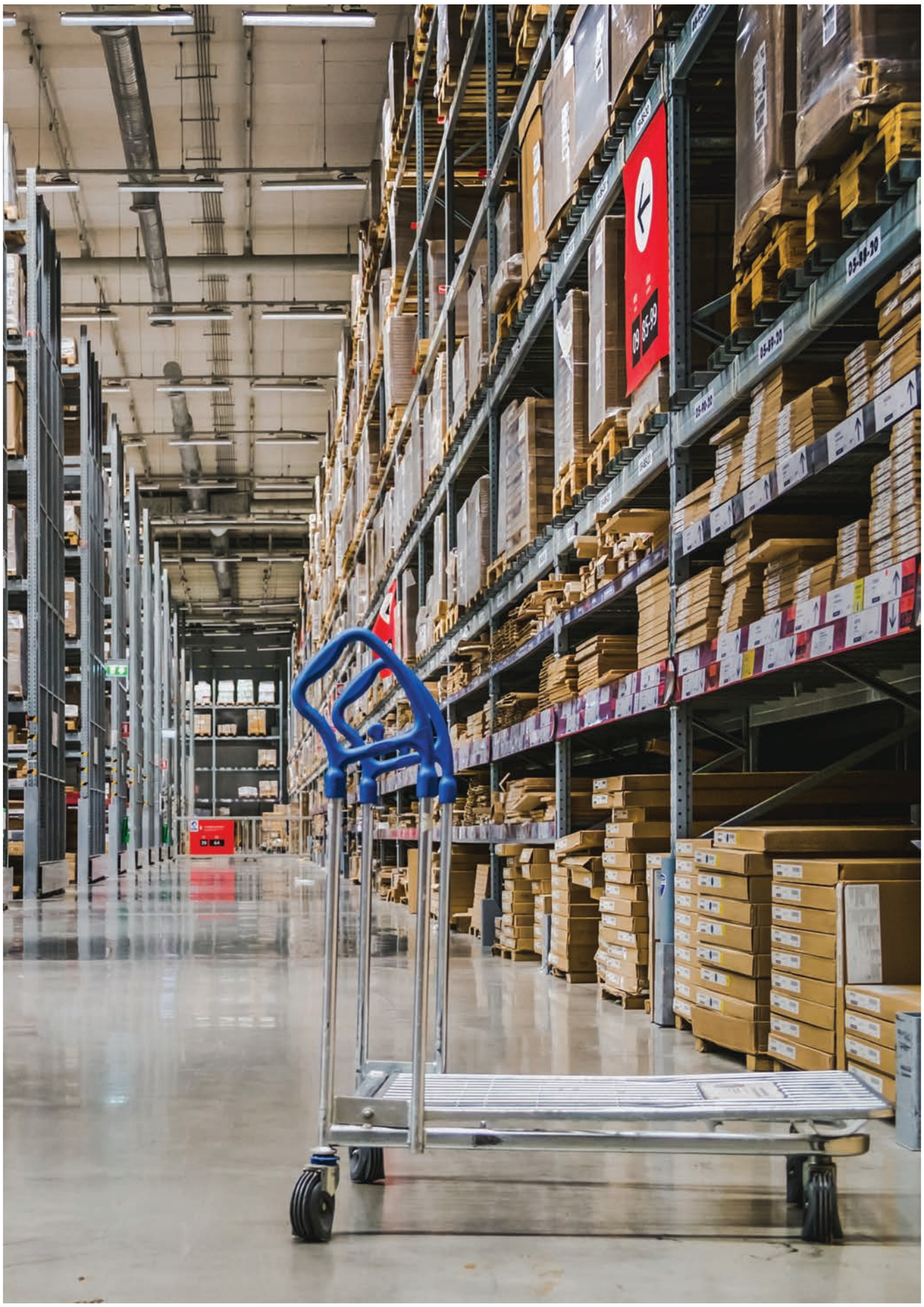
Good resistance to chemicals and to abrasion. Recommended for hand driven trolleys

PG

RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA NERA STANDARD
PLASTIC CENTRE WHEELS WITH BLACK STANDARD RUBBER TYRES
Pag. 5

LN

RUOTE NUCLEO ACCIAIO STAMPATO ANELLO GOMMA NERA O GRIGIA STANDARD
PRESSED STEEL CENTRE WHEELS WITH BLACK OR GREY STANDARD RUBBER TYRES
Pag. 9



RUOTE NUCLEO TERMOPLASTICO ANELLO GOMMA NERA STANDARD

PLASTIC CENTRE WHEELS WITH BLACK STANDARD RUBBER TYRE

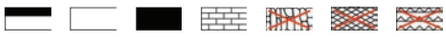
Caratteristiche Ruota

Anello in gomma nera qualità standard.
Struttura portante in materiale plastico antiurto colore nero.
Movimento mozzo:
alesaggio passante
gabbia a rulli
Temperatura d'impiego da –10°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Durezza battistrada 83 Sh.A +/- 4
Discreta resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale

Wheel Features

Black standard rubber tyre.
Shock resistant black plastic centre wheel.
Type of bearing:
plain bearing
roller bearing.
Temperature range: from –10°C to +60°C.
Fair resistance to chemicals.
Tread hardness 83 Sh.A +/- 4.
Fair resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

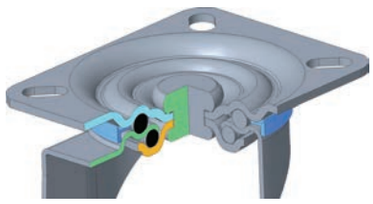


	COD		daN
80x25	**0PGA080012**	12x40	50
100x30	**0PGA100012**	12x40	70
125x37,5	**0PGA125015**	15x46	100
160x40	**0PGA160020**	20x60	135
180x50	**0PGA180020**	20x60	170
200x50	**0PGA200020**	20x60	205

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
80x25	105x85	80x60	9x16	38	108	**1PGA0800GR0**	50
100x30	105x85	80x60	9x16	38	128	**1PGA1000GR0**	70
125x37,5	105x85	80x60	9x16	45	155	**1PGA1250GR0**	100
160x40	135x110	105x80	11x16	55	199	**1PGA1600GR0**	135
180x50	135x110	105x80	11x16	55	219	**1PGA1800GR0**	170
200x50	135x110	105x80	11x16	55	239	**1PGA2000GR0**	205

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
80x25	105x85	80x60	9x16	38	108	120	**1PGA0800GRI**	50
100x30	105x85	80x60	9x16	38	128	120	**1PGA1000GRI**	70
125x37,5	105x85	80x60	9x16	45	155	120	**1PGA1250GRI**	100
160x40	135x110	105x80	11x16	55	199	140	**1PGA1600GRI**	135
180x50	135x110	105x80	11x16	55	219	140	**1PGA1800GRI**	170
200x50	135x110	105x80	11x16	55	239	140	**1PGA2000GRI**	205

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
80x25	12	77	38	104	**1PGA0800QR0**	50
100x30	12	77	38	124	**1PGA1000QR0**	70
125x37,5	12	77	45	151	**1PGA1250QR0**	100
160x40	16	103	55	193	**1PGA1600QR0**	135
180x50	16	103	55	213	**1PGA1800QR0**	170
200x50	16	103	55	233	**1PGA2000QR0**	205

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN
80x25	12	77	38	104	120	**1PGA0800QRI**	50
100x30	12	77	38	124	120	**1PGA1000QRI**	70
125x37,5	12	77	45	151	120	**1PGA1250QRI**	100
160x40	16	103	55	193	140	**1PGA1600QRI**	135
180x50	16	103	55	213	140	**1PGA1800QRI**	170
200x50	16	103	55	233	140	**1PGA2000QRI**	205

fisso piastra / *fixed castor*

					COD	
80x25	105x85	80x60	9x16	108	**1PGA0800FI0**	50
100x30	105x85	80x60	9x16	128	**1PGA1000FI0**	70
125x37,5	105x85	80x60	9x16	155	**1PGA1250FI0**	100
160x40	135x110	105x80	11x16	199	**1PGA1600FI0**	135
180x50	135x110	105x80	11x16	219	**1PGA1800FI0**	170
200x50	135x110	105x80	11x16	239	**1PGA2000FI0**	205

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 50-205KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 50-205KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 50-205KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 50-205KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

RUOTE NUCLEO ACCIAIO STAMPATO ANELLO GOMMA NERA O GRIGIA STANDARD

PRESSED STEEL CENTRE WHEELS WITH BLACK OR GREY STANDARD RUBBER TYRE

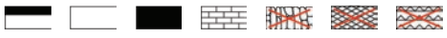
Caratteristiche Ruota

Anello in gomma nera qualità standard.**LN**
Anello in gomma grigia antitraccia.**LG**
Anello in gomma grigia ELASTICA antitraccia.
LQ
Struttura portante composta da doppi dischi acciaio stampato zincati galvanicamente assemblati con rivetti alluminio.
Movimento mozzo:
boccola poliammide autolubrificante.
gabbia a rulli.
Temperatura d'impiego da –10°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Durezza battistrada 83 Sh.A +/- 4
Discreta resistenza all'abrasione
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale

Wheel Features

*Black standard rubber tyre.***LN**
*Grey non-marking rubber tyre.***LG**
*Grey non-marking ELASTIC rubber tyre.***LQ**
Pressed steel zinc-plated rivetted rims.
Type of bearing:
self-lubricating polyamide bush.
roller bearing.
Temperature range: from –10°C to +60°C.
Fair resistance to chemicals.
Tread hardness 83 Sh.A +/- 4
Fair resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*



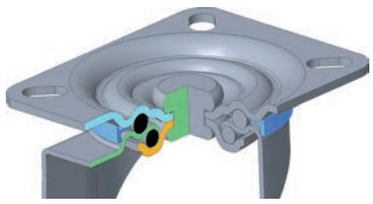
	COD		daN
80x25	**0LNR080012**	12x40	50
100x30	**0LNR100012**	12x40	70
125x37,5	**0LNR125015**	15x46	100
140x37,5	**0LNR140015**	15x46	115
150x40	**0LNR150015**	15x46	125
160x40	**0LNR160020**	20x60	135
180x45	**0LNR180020**	20x60	170
200x50	**0LNR200020**	20x60	205
250x60	**0LNR250025**	25x75	295
250x60	**0LNR250A25**	25x60	295
280x70	**0LNR280025**	25x75	385
80x25	**0LGR080012**	12x40	50
100x30	**0LGR100012**	12x40	70
125x37,5	**0LGR125015**	15x46	100
150x40	**0LGR150015**	15x46	125
160x40	**0LGR160020**	20x60	135
200x50	**0LQR200020**	20x60	205

Varianti / *Options*

Parafili in acciaio stampato
Steel thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
80x25	105x85	80x60	9x16	38	108	**1LNR0800GR0**	50
100x30	105x85	80x60	9x16	38	128	**1LNR1000GR0**	70
125x37,5	105x85	80x60	9x16	45	155	**1LNR1250GR0**	100
140x37,5	105x85	80x60	9x16	45	178	**1LNR1400GR0**	115
150x40	105x85	80x60	9x16	45	183	**1LNR1500GR0**	125
160x40	135x110	105x80	11x16	55	199	**1LNR1600GR0**	135
180x45	135x110	105x80	11x16	55	219	**1LNR1800GR0**	170
200x50	135x110	105x80	11x16	55	239	**1LNR2000GR0**	205
250x60	135x110	105x80	11x16	55	290	**1LNR250AGM0**	295
250x60	200x160	160x120	14x26	90	305	**1LNR2500GM0**	295
280x70	200x160	160x120	14x26	90	320	**1LNR2800GM0**	385

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
80x25	105x85	80x60	9x16	38	108	120	**1LNR0800GRI**	50
100x30	105x85	80x60	9x16	38	128	120	**1LNR1000GRI**	70
125x37,5	105x85	80x60	9x16	45	155	120	**1LNR1250GRI**	100
140x37,5	105x85	80x60	9x16	45	178	120	**1LNR1400GRI**	115
150x40	105x85	80x60	9x16	45	183	120	**1LNR1500GRI**	125
160x40	135x110	105x80	11x16	55	199	140	**1LNR1600GRI**	135
180x45	135x110	105x80	11x16	55	219	140	**1LNR1800GRI**	170
200x50	135x110	105x80	11x16	55	239	140	**1LNR2000GRI**	205
250x60	135x110	105x80	11x16	55	290	141	**1LNR250AGMI**	295

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
80x25	12	77	38	104	**1LNR0800QR0**	50
100x30	12	77	38	124	**1LNR1000QR0**	70
125x37,5	12	77	45	151	**1LNR1250QR0**	100
140x37,5	12	77	45	174	**1LNR1400QR0**	115
150x40	12	77	45	179	**1LNR1500QR0**	125
160x40	16	103	55	193	**1LNR1600QR0**	135
180x45	16	103	55	213	**1LNR1800QR0**	170
200x50	16	103	55	233	**1LNR2000QR0**	205

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

							COD	daN
80x25	12	77		38	104	120	**1LNR0800QRI**	50
100x30	12	77		38	124	120	**1LNR1000QRI**	70
125x37,5	12	77		45	151	120	**1LNR1250QRI**	100
140x37,5	12	77		45	174	120	**1LNR1400QRI**	115
150x40	12	77		45	179	120	**1LNR1500QRI**	125
160x40	16	103		55	193	140	**1LNR1600QRI**	135
180x45	16	103		55	213	140	**1LNR1800QRI**	170
200x50	16	103		55	233	140	**1LNR2000QRI**	205

fisso piastra / *fixed castor*

					COD	daN
80x25	105x85	80x60	9x16	108	**1LNR0800FI0**	50
100x30	105x85	80x60	9x16	128	**1LNR1000FI0**	70
125x37,5	105x85	80x60	9x16	155	**1LNR1250FI0**	100
140x37,5	105x85	80x60	9x16	178	**1LNR1400FI0**	115
150x40	105x85	80x60	9x16	183	**1LNR1500FI0**	120
160x40	135x110	105x80	11x16	199	**1LNR1600FI0**	135
180x45	135x110	105x80	11x16	219	**1LNR1800FI0**	170
200x50	135x110	105x80	11x16	239	**1LNR2000FI0**	205
250x60	135x110	105x80	11x16	290	**1LNR250AFM0**	295
250x60	200x160	160x120	14x26	305	**1LNR2500FM0**	295
280x70	200x160	160x120	14x26	320	**1LNR2800FM0**	385

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 50-205KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 50-205KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 50-205KG, MISURA CODOLO: M12x35 - M16X50

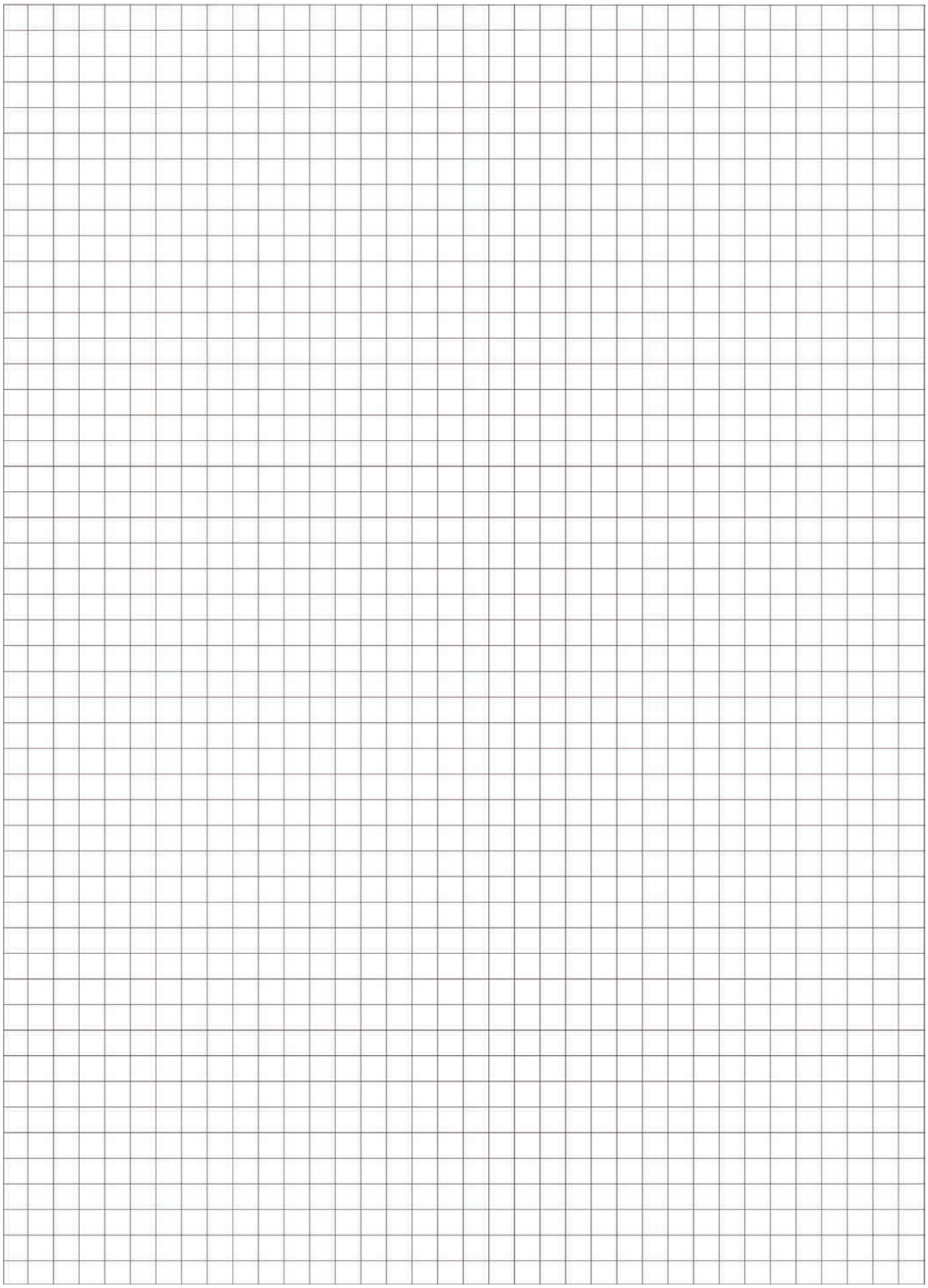
SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 50-205KG, STEM SIZE: M12x35 - M16x50

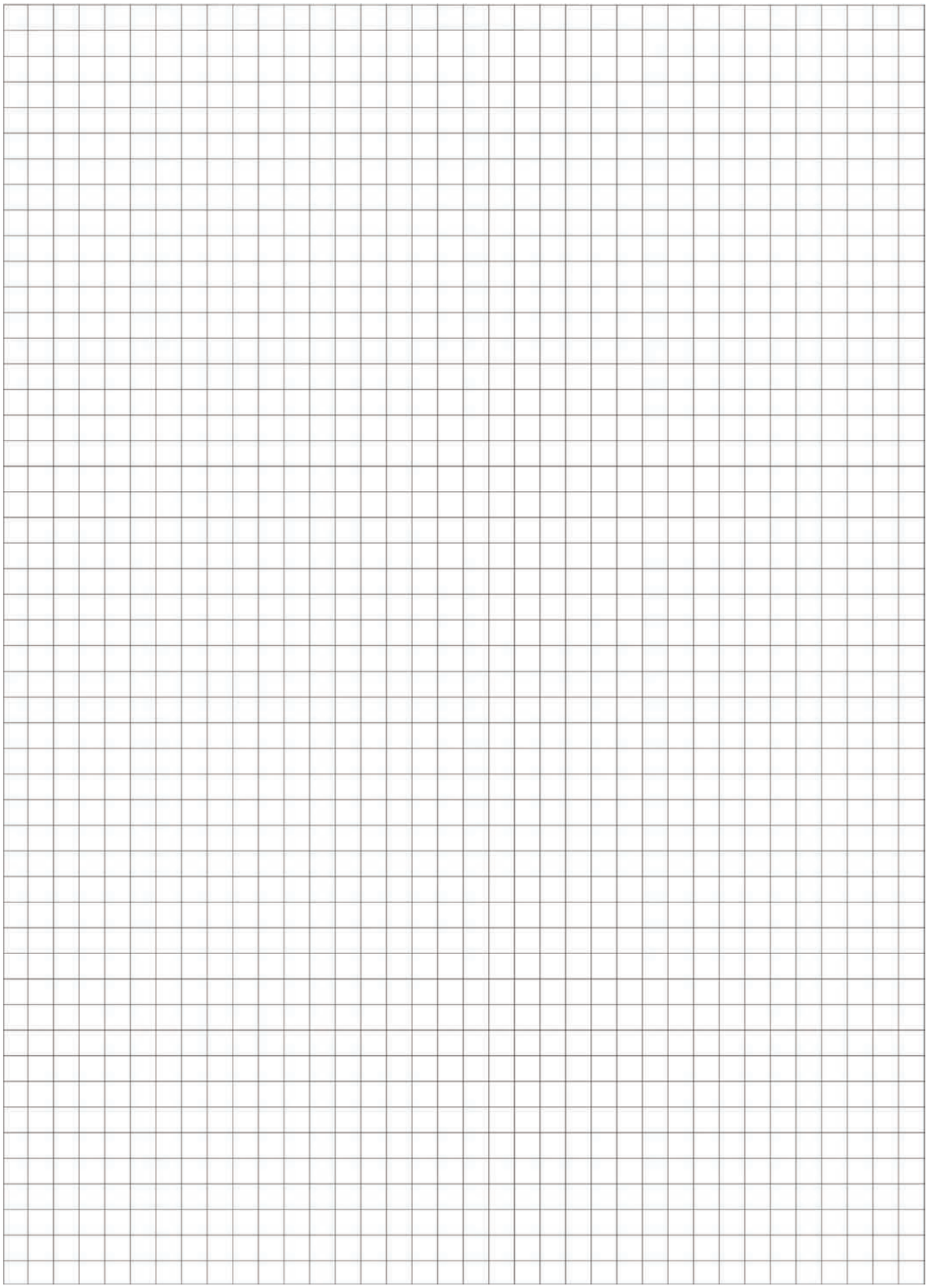
Dati tecnici/technical data pag.: 9 of class S

SERIE R: SUPPORTO GIREVOLE ZINCATO FRENO PEDALE ANTERIORE O POSTERIORE
DIAMETRO RUOTA: 160-200, PORTATA: 135-205KG, PIASTRA: 135X110

SERIES: R ZINC PLATED SWIVEL CASTOR FRONT OR REAR FOOT LEVER BRAKE
WHEEL DIAMETER: 160-200, LOAD CAPACITY: 135-205KG, PLATE SIZE: 135X110

Dati tecnici/technical data pag.: 6 of class S

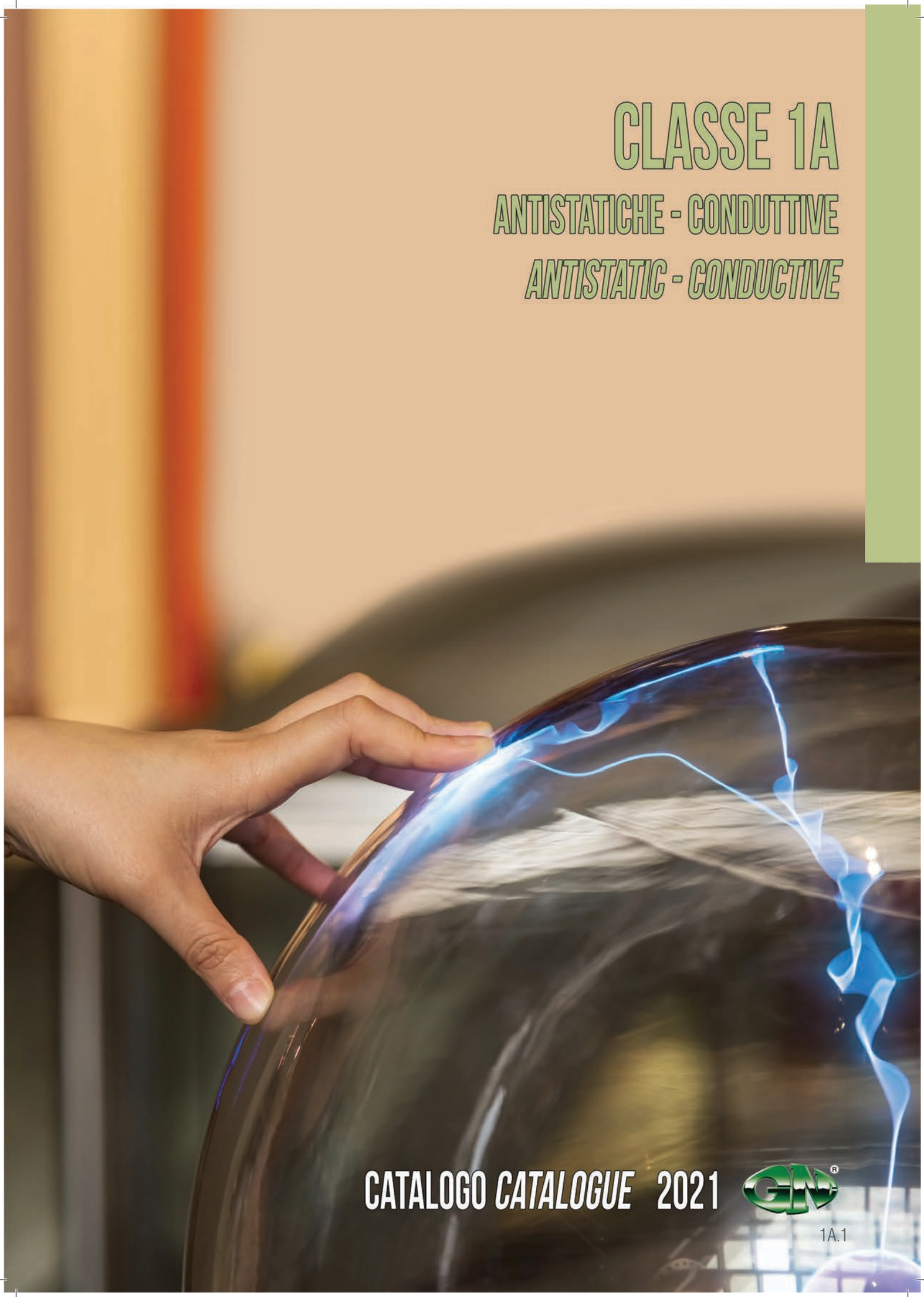




CLASSE 1A

ANTISTATICHE - CONDUTTIVE

ANTISTATIC - CONDUCTIVE



CATALOGO *CATALOGUE* 2021

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LA SOLUZIONE AI PROBLEMI DI ANTISTATICITA' E CONDUTTIVITA'

Ruote con battistrada in materiale antistatico e/o conduttivo con nucleo in materiale plastico antiurto, alluminio o acciaio stampato e zincato.

Sono ideali per risolvere tutte le problematiche in particolari ambienti di lavoro.

OUR SOLUTION TO PROBLEMS OF ANTISTATIC AND/OR CONDUCTIVITY NEEDS

Standard rubber wheels with antistatic tread and/or conductive shock resistant plastic or pressed-zinc plated rims for high reliability.

CAMPI DI APPLICAZIONE

Impieghi per attrezzature con discreta movimentazione e/o utilizzo.

Buona resistenza agli agressivi chimici e all'abrasione

Consigliati per mezzi a trazione manuale.

FIELDS OF APPLICATION

Suitable for equipments and devices with limited movement or occasional use.

Good resistance to chemicals and to abrasion.

Recommended for hand driven trolleys.

LA

RUOTE ANTISTATICHE NUCLEO ACCIAIO STAMPATO ANELLO GOMMA NERA
ANTISTATIC WHEELS WITH PRESSED STEEL CENTRE AND BLACK RUBBER TYRES
Pag. 5

DH

RUOTE CONDUTTIVE NUCLEO POLIAMMIDE ANELLO POLIURETANO GRIGIO
CONDUCTIVE POLYAMIDE CENTRE WHEELS WITH GREY POLYURETHANE TREAD
Pag. 8

ESD
CONTROL AREA
THIS AREA CONTAINS
SENSITIVE ELECTRONIC
DEVICES

RUOTE ANTISTATICHE NUCLEO ACCIAIO STAMPATO ANELLO GOMMA NERA

ANTISTATIC WHEELS WITH PRESSED STEEL CENTRE AND BLACK RUBBER TYRE

Caratteristiche Ruota

Anello in gomma nera ANTISTATICA
Struttura portante composta da doppi dischi acciaio stampato zincati galvanicamente assemblati con rivetti alluminio.
Movimento mozzo:
gabbia a rulli.
Temperatura d'impiego da –5°C a +40°C.
Discreta resistenza agli aggressivi chimici.
Durezza battistrada 80 Sh.A +/- 5
Discreta resistenza all'abrasione
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale
Resistenza elettrica compresa tra 10^5 e 10^7 ohm.
(UNI EN 12532)

Wheel Features

ANTISTATIC black rubber tyre.
Pressed steel zinc-plated rivetted rims.
Type of bearing:
roller bearing.
Temperature range: from –5°C to +40°C.
Fair resistance to chemicals.
Tread hardness 80 Sh.A +/- 5
Fair resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.
Leakage resistance electrical between 10^5 to10^7 ohm.
(UNI EN 12532)

Pavimentazioni Idonee / *Floring Type*

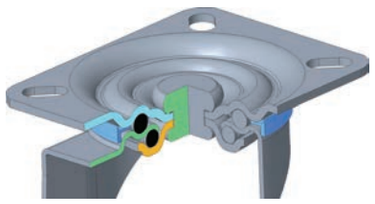
	COD		daN
80x25	**0LAR080012**	12x40	50
100x30	**0LAR100012**	12x40	70
125x37,5	**0LAR125015**	15x46	100

Varianti / *Options*

Parafili in acciaio stampato
Steel thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
80x25	105x85	80x60	9x16	38	108	**1LAR0800GR0**	50
100x30	105x85	80x60	9x16	38	128	**1LAR1000GR0**	70
125x37,5	105x85	80x60	9x16	45	155	**1LAR1250GR0**	100

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
80x25	12	77	38	104	**1LAR0800QR0**	50
100x30	12	77	38	124	**1LAR1000QR0**	70
125x37,5	12	77	45	151	**1LAR1250QR0**	100

fisso piastra / *fixed castor*

					COD	daN
80x25	105x85	80x60	9x16	108	**1LAR0800FI0**	50
100x30	105x85	80x60	9x16	128	**1LAR1000FI0**	70
125x37,5	105x85	80x60	9x16	155	**1LAR1250FI0**	100

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-125, PORTATA: 50-100KG, MISURA PERNI: 20X50 - 22X50

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-125, LOAD CAPACITY: 50-100KG, STEM SIZE: 20X50 - 22X50

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-125, PORTATA: 50-100KG, MISURA CODOLO: M12X35

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-125, LOAD CAPACITY: 50-100KG, STEM SIZE: M12x35

Dati tecnici/technical data pag.: 9 of class S

RUOTE CONDUTTIVE NUCLEO POLIAMMIDE ANELLO POLIURETANO GRIGIO

CONDUCTIVE POLYAMIDE CENTRE WHEELS WITH GREY POLYURETHANE TREAD

Caratteristiche Ruota

Anello in poliuretano grigio CONDUTTIVO
Struttura portante in poliammide CONDUTTIVA colore grigio.
Doppi dischi parafili
Movimento mozzo:
mono cuscinetto a tenuta stagna
doppi cuscinetti a tenuta stagna.
Temperatura d'impiego da –20°C a +70°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 90 Sh.A +/- 5.
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.
Resistenza elettrica inferiore 10^4
(UNI EN 12532)

Wheel Features

CONDUTTIVE grey polyurethane tread
CONDUTTIVE grey polyamide centre wheel
double plastic thread guards
Type of bearing:
single water proof ball bearing
double waterproof ball bearings.
Temperature range: from –20°C to +70°C.
Good resistance to chemicals.
Tread hardness 90 Sh.A. +/-5.
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.
Leak resistance < 10^4
(UNI EN 12532)

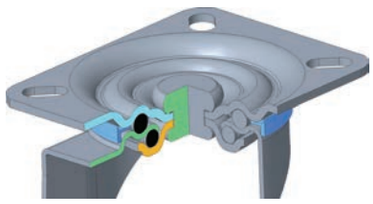
Pavimentazioni Idonee / *Floring Type*

	COD		daN	COD		daN
80x32	**2DHN080008E**	8x42	130			
100x32	**2DHN100008E**	8x42	150			
125x32	**2DHN125010E**	10x49	160			
125x46				**0DHT125B12**	12x63	400
160x46				**0DHT160012**	12x63	450
200x50				**0DHT200A12**	12x63	500

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
80x32	105x85	80x60	9x16	38	108	**1DHN0800GR0PN**	120		
100x32	105x85	80x60	9x16	38	128	**1DHN1000GR0PN**	120		
125x32	105x85	80x60	9x16	45	155	**1DHN1250GR0PN**	160		
125x46	135x110	105x80	11x16	55	164			**1DHT125BGR0PN**	250
160x46	135x110	105x80	11x16	55	199			**1DHT1600GR0PN**	300
200x50	135x110	105x80	11x16	55	239			**1DHT200AGR0PN**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN
80x32	105x85	80x60	9x16	38	108	120	**1DHN0800GRIPN**	120		
100x32	105x85	80x60	9x16	38	128	120	**1DHN1000GRIPN**	120		
125x32	105x85	80x60	9x16	45	155	120	**1DHN1250GRIPN**	160		
125x46	135x110	105x80	11x16	55	164	140			**1DHT125BGRIPN**	250
160x46	135x110	105x80	11x16	55	199	140			**1DHT1600GRIPN**	300
200x50	135x110	105x80	11x16	55	239	140			**1DHT200AGRIPN**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN
80x32	12	77	38	104	**1DHN0800QR0PN**	120		
100x32	12	77	38	124	**1DHN1000QR0PN**	120		
125x32	12	77	45	151	**1DHN1250QR0PN**	160		
125x46	16	103	55	158			**1DHT125BQR0PN**	250
160x46	16	103	55	193			**1DHT1600QR0PN**	300
200x50	16	103	55	233			**1DHT200AQR0PN**	300

fisso piastra / *fixed castor*

					COD	daN	COD	daN
80x32	105x85	80x60	9x16	108	**1DHN0800FI0PN**	120		
100x32	105x85	80x60	9x16	128	**1DHN1000FI0PN**	120		
125x32	105x85	80x60	9x16	155	**1DHN1250FI0PN**	120		
125x46	135x110	105x80	11x16	164			**1DHT125BFI0PN**	250
160x46	135x110	105x80	11x16	199			**1DHT1600FI0PN**	300
200x50	135x110	105x80	11x16	239			**1DHT200AFI0PN**	300

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

CLASSE 2

GOMMA ELASTICA

ELASTIC RUBBER

CATALOGO *CATALOGUE* 2021

.

I PRODOTTI CON IL MIGLIOR RAPPORTO COSTO/EFFICENZA

Ruote composte da anello in gomma elastica, antitraccia, calettato o vulcanizzato, con nucleo in poliammide, in acciaio, in alluminio pressofuso o in ghisa meccanica.

THE BEST COMPROMISE OF EFFICIENCY AND PRICE

Elastic and non-marking rubber wheels vulcanized or shrunk-on tyres with steel, polyamide, die-cast aluminium or cast iron rims.

CAMPI DI APPLICAZIONE

Impieghi per attrezzature molto movimentate particolarmente delicate o sofisticate.

Buona resistenza agli agressivi chimici e all'abrasione ma caratterizzate da ottima scorrevolezza.

Consigliate per mezzi di trazione manuali o meccanici.

FIELDS OF APPLICATION

Suitable for equipments with frequent use and for sophisticated and delicated devices.

Good resistance to chemicals and to abrasion but with very high rolling.

Recommended for hand driven or mechanical traction trolleys.

SP

RUOTE NUCLEO POLIPROPILENE ANELLO GOMMA SINTETICA GRIGIA
POLYPROPYLENE CENTRE WHEELS WITH GREY SYNTHETIC RUBBER TYRES
Pag. 5

NG

RUOTE NUCLEO POLIAMMIDE ANELLO GOMMA BLU O GRIGIA ELASTICA ANTITRACCIA
POLYAMIDE CENTRE WHEELS WITH BLUE OR GREY NON-MARKING ELASTIC RUBBER TYRE
Pag. 8

ZV

RUOTE IN ALLUMINIO PRESSOFUSO ANELLO GOMMA NERA O GRIGIA ELASTICA VULCANIZZATA
ALUMINIUM CENTRE WHEELS WITH BLACK OR GREY ELASTIC VULCANIZED RUBBER TYRES
Pag. 11

AV

RUOTE GOMMA ALTE PORTATE
HEAVY LOADS RUBBER WHEELS
Pag. 18

RUOTE NUCLEO POLIPROPILENE ANELLO GOMMA SINTETICA GRIGIA

POLYPROPYLENE CENTRE WHEELS WITH GREY SYNTHETIC RUBBER TYRES

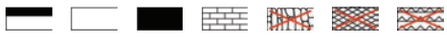
Caratteristiche Ruota

Anello in gomma sintetica grigia.
Struttura portante in polipropilene antiurto colore grigio.
Doppi dischi parafili.
Movimento mozzo:
gabbia a rulli.
Temperatura d'impiego da –10°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Durezza battistrada 85 Sh.A +/- 3.
Discreta resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Grey synthetic rubber tyre.
Grey shock resistant polypr. centre wheel.
Double tread guards.
Type of bearing:
roller bearing.
Temperature range: from –10°C to +60°C.
Fair resistance to chemicals.
Tread hardness 85 Sh.A +/- 3.
Fair resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

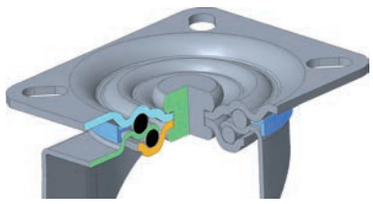


	COD		daN
80x32	**0SPR080008**	8x42,5	70
100x34	**0SPR100008**	8x42,5	100
125x37,5	**0SPR125010**	10x49	130
160x40	**0SPR160012**	12x60,5	160
200x50	**0SPR200012**	12x62,5	190

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
80x32	105x85	80x60	9x16	38	108	**1SPR0800GR0**	70
100x34	105x85	80x60	9x16	38	128	**1SPR1000GR0**	100
125x37,5	105x85	80x60	9x16	45	155	**1SPR1250GR0**	130
160x40	135x110	105x80	11x16	55	199	**1SPR1600GR0**	160
200x50	135x110	105x80	11x16	55	239	**1SPR2000GR0**	190

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
80x32	105x85	80x60	9x16	38	108	120	**1SPR0800GRI**	70
100x34	105x85	80x60	9x16	38	128	120	**1SPR1000GRI**	100
125x37,5	105x85	80x60	9x16	45	155	120	**1SPR1250GRI**	130
160x40	135x110	105x80	11x16	55	199	140	**1SPR1600GRI**	160
200x50	135x110	105x80	11x16	55	239	140	**1SPR2000GRI**	190

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
80x32	12	77	38	104	**1SPR0800QR0**	70
100x34	12	77	38	124	**1SPR1000QR0**	100
125x37,5	12	77	45	151	**1SPR1250QR0**	130
160x40	16	103	55	193	**1SPR1600QR0**	160
200x50	16	103	55	233	**1SPR2000QR0**	190

fisso piastra / *fixed castor*

					COD	daN
80x32	105x85	80x60	9x16	108	**1SPR0800FI0**	70
100x34	105x85	80x60	9x16	128	**1SPR1000FI0**	100
125x37,5	105x85	80x60	9x16	155	**1SPR1250FI0**	120
160x40	135x110	105x80	11x16	199	**1SPR1600FI0**	160
200x50	135x110	105x80	11x16	239	**1SPR2000FI0**	190

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 70-190KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 70-190KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 70-190KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 70-190KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

RUOTE NUCLEO POLIAMMIDE ANELLO GOMMA BLU O GRIGIA ELASTICA ANTITRACCIA

POLYAMIDE CENTRE WHEELS WITH BLUE OR GREY NON-MARKING ELASTIC RUBBER TYRES

Caratteristiche Ruota

Anello gomma blu ELASTICA antitraccia **NG**
Anello gomma grigia ELASTICA antitraccia **NH**
Struttura portante in poliammide colore nero.
Movimento mozzo:
gabbia a rulli.
gabbia a rulli con pista di scorrimento in acciaio.
doppi cuscinetti a sfera tenuta stagna.
Temperatura d'impiego da –10°C a +60°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 65 Sh.A +/- 5.
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Blue non-marking ELASTIC rubber tyre **NG**
Grey non-marking ELASTIC rubber tyre **NH**
Black polyamide centre wheel.
Type of bearing:
roller bearing.
roller bearing with steel tube.
double waterproof ball bearings
Temperature range: from –10°C to +60°C.
Good resistance to chemicals.
Tread hardness 65 Sh.A +/- 5.
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

	COD		daN	COD		daN	COD		a	daN
100x32	**0NGR100S12**	12x40	160							
100x38				**0NGE100L15**	15x46	200				
125x40				**0NGE125L15**	15x46	225	**0NGT125L15**	15x47	30	225
160x50				**0NGE160L20**	20x60	300	**0NGT160L20**	20x61	40	300
200x50				**0NGE200020**	20x60	400	**0NGT200020**	20x61	40	400
100x32	**0NHX100S12**	12x40	160							
100x38	**0NHX100L15**	15x46	200							
125x40	**0NHX125L15**	15x46	225				**0NHT125L15**	15x47	30	225
160x50	**0NHX160L20**	20x60	300				**0NHT160L20**	20x61	40	300
200x50	**0NHX200020**	20x60	350				**0NHT200020**	20x61	40	400

Varianti / *Options*

MN Anello in gomma grigia elastica antistatica
Antistatic elastic grey rubber tyre

Parafili in lega leggera
Light Metal thread guards

Parafili in poliammide
Polyamide thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
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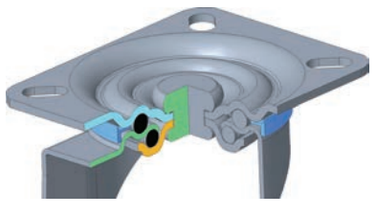
Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
100x32	105x85	80x60	9x16	38	128	**1NGR100SGR0**	120		
100x38	105x85	80x60	9x16	45	128	**1NGE100LGR0**	180		
125x40	105x85	80x60	9x16	45	155	**1NGE125LGR0**	180	**1NGT125LGR0**	180
160x50	135x110	105x80	11x16	55	199	**1NGE160LGR0**	300	**1NGT160LGR0**	300
200x50	135x110	105x80	11x16	55	239	**1NGE2000GR0**	300	**1NGT2000GR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN
100x32	105x85	80x60	9x16	38	128	120	**1NGR100SGRI**	120		
100x38	105x85	80x60	9x16	45	128	120	**1NGE100LGRI**	180		
125x40	105x85	80x60	9x16	45	155	120	**1NGE125LGRI**	180	**1NGT125LGRI**	180
160x50	135x110	105x80	11x16	55	199	140	**1NGE160LGRI**	300	**1NGT160LGRI**	300
200x50	135x110	105x80	11x16	55	239	140	**1NGE2000GRI**	300	**1NGT2000GRI**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN
100x32	12	77	38	124	**1NGR100SQR0**	120		
100x38	12	77	45	124	**1NGE100LQR0**	180		
125x40	12	77	45	151	**1NGE125LQR0**	180	**1NGT125LQR0**	180
160x50	16	103	55	193	**1NGE160LQR0**	300	**1NGT160LQR0**	300
200x50	16	103	55	233	**1NGE2000QR0**	300	**1NGT2000QR0**	300

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN	COD	daN
100x32	12	77	38	124	120	**1NGR100SQRI**	120		
100x38	12	77	45	124	120	**1NGE100LQRI**	180		
125x40	12	77	45	151	120	**1NGE125LQRI**	180	**1NGT125LQRI**	180
160x50	16	103	55	193	140	**1NGE160LQRI**	300	**1NGT160LQRI**	300
200x50	16	103	55	233	140	**1NGE2000QRI**	300	**1NGT2000QRI**	300

fisso piastra / *fixed castor*

					COD	daN	COD	daN
100x32	105x85	80x60	9x16	128	**1NGR100SFI0**	120		
100x38	105x85	80x60	9x16	128	**1NGE100LFI0**	120		
125x40	105x85	80x60	9x16	155	**1NGE125LFI0**	120	**1NGT125LFI0**	120
160x50	135x110	105x80	11x16	199	**1NGE160LFI0**	300	**1NGT160LFI0**	300
200x50	135x110	105x80	11x16	239	**1NGE2000FI0**	300	**1NGT2000FI0**	300

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 100-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 100-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 100-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 100-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE R: SUPPORTO GIREVOLE ZINCATO FRENO PEDALE ANTERIORE O POSTERIORE
DIAMETRO RUOTA: 160-200, PORTATA: 300KG, PIASTRA: 135X110

SERIES: R ZINC PLATED SWIVEL CASTOR FRONT OR REAR FOOT LEVER BRAKE
WHEEL DIAMETER: 160-200, LOAD CAPACITY: 300KG, PLATE SIZE: 135X110

Dati tecnici/technical data pag.: 6 of class S

RUOTE IN ALLUMINIO PRESSOFUSO ANELLO GOMMA NERA O GRIGIA ELASTICA VULCANIZZATO

ALUMINIUM CENTRE WHEELS WITH BLACK OR GREY ELASTIC VULCANIZED RUBBER TYRES

Caratteristiche Ruota

Anello gomma "ELASTICA" vulcanizzata:
ZV colore nero **ZF** colore grigio
Struttura portante in alluminio pressofuso
Mozzo cuscinetti a sfere tenuta stagna.
Temperatura d'impiego da –15°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Durezza battistrada 70 Sh.A +/- 5
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato:
manuale-meccanico.

Wheel Features

*Black "ELASTIC" vulcanized rubber tyre.***ZV**
*Grey "ELASTIC" vulcanized rubber tyre.***ZF**
Die-cast aluminium centre wheel.
Type of bearing:
double waterproof ball bearings
Temperature range: from –15°C to +60°C.
Fair resistance to chemicals.
Tread hardness 70 Sh.A +/- 5.
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual-mechanical.

Pavimentazioni Idonee / *Floring Type*

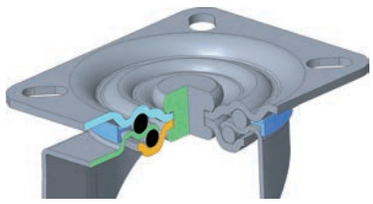
	COD			daN
100x40	**0ZVT100015**	15x47	30	150
125x50	**0ZVT125020**	20x61	50	225
160x40	**0ZVT160A12**	12x61	56	300
160x50	**0ZVT160020**	20x61	50	300
180x50	**0ZVT180020**	20x61	50	350
200x50	**0ZVT200020**	20x61	50	400
200x50	**0ZVT200A25**	25x61	50	400
250x50	**0ZVT250025**	25x61	50	500
300x60	**0ZVT300A30**	30x60	60	700
100x40	**0ZFT100015**	15x47	30	150
125x50	**0ZFT125020**	20x61	50	225
160x40	**0ZFT160A12**	12x61	56	300
160x50	**0ZFT160020**	20x61	50	300
180x50	**0ZFT180020**	20x61	50	350
200x50	**0ZFT200020**	20x61	50	400
200x50	**0ZFT200A25**	25x61	50	400
250x50	**0ZFT250025**	25x61	50	500

Varianti / *Options*

ZN Anello in gomma grigia Elastica conduttiva
Conductive elastic grey rubber tyre

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
100x40	105x85	80x60	9x16	45	128	**1ZVT1000GR0**	150
125x50	135x110	105x80	11x16	55	164	**1ZVT1250GR0**	225
160x40	135x110	105x80	11x16	55	199	**1ZVT160AGR0**	300
160x50	135x110	105x80	11x16	55	199	**1ZVT1600GR0**	300
180x50	135x110	105x80	11x16	55	219	**1ZVT1800GR0**	300
200x50	135x110	105x80	11x16	55	239	**1ZVT2000GR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
100x40	105x85	80x60	9x16	45	128	120	**1ZVT1000GRI**	150
125x50	135x110	105x80	11x16	55	164	140	**1ZVT1250GRI**	225
160x40	135x110	105x80	11x16	55	199	140	**1ZVT160AGRI**	300
160x50	135x110	105x80	11x16	55	199	140	**1ZVT1600GRI**	300
180x50	135x110	105x80	11x16	55	219	140	**1ZVT1800GRI**	300
200x50	135x110	105x80	11x16	55	239	140	**1ZVT2000GRI**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
100x40	12	77	45	124	**1ZVT1000QR0**	150
125x50	16	103	55	158	**1ZVT1250QR0**	225
160x40	16	103	55	193	**1ZVT160AQR0**	300
160x50	16	103	55	193	**1ZVT1600QR0**	300
180x50	16	103	55	213	**1ZVT1800QR0**	300
200x50	16	103	55	233	**1ZVT2000QR0**	300

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with rear brake foot lever*

						COD	daN
100x40	12	77	45	124	120	**1ZVT1000QRI**	150
125x50	16	103	55	158	140	**1ZVT1250QRI**	225
160x40	16	103	55	193	140	**1ZVT160AQRI**	300
160x50	16	103	55	193	140	**1ZVT1600QRI**	300
180x50	16	103	55	213	140	**1ZVT1800QRI**	300
200x50	16	103	55	233	140	**1ZVT2000QRI**	300

fisso piastra / *fixed castor*

					COD	daN
100x40	105x85	80x60	9x16	128	**1ZVT1000FI0**	120
125x50	135x110	105x80	11x16	164	**1ZVT1250FI0**	225
160x40	135x110	105x80	11x16	199	**1ZVT160AFI0**	300
160x50	135x110	105x80	11x16	199	**1ZVT1600FI0**	300
180x50	135x110	105x80	11x16	219	**1ZVT1800FI0**	300
200x50	135x110	105x80	11x16	239	**1ZVT2000FI0**	300

girevole piastra freno centrale a spintore / *swivel castor with push central look*

							COD	daN
125x50	135x110	105x80	11x16	55	164	25/13	**1ZVT1250GCA**	225
160x40	135x110	105x80	11x16	55	199	25/13	**1ZVT160AGCA**	300
160x50	135x110	105x80	11x16	55	199	25/13	**1ZVT1600GCA**	300
200x50	135x110	105x80	11x16	55	239	25/13	**1ZVT2000GCA**	300

girevole piastra freno centrale integrale a camma / *swivel castor total central lock with cam*

							COD	daN
125x50	135x110	105x80	11x16	55	164	18,5	**1ZVT1250GEA**	225
160x40	135x110	105x80	11x16	55	199	18,5	**1ZVT160AGEA**	300
160x50	135x110	105x80	11x16	55	199	18,5	**1ZVT1600GEA**	300
200x50	135x110	105x80	11x16	55	239	18,5	**1ZVT2000GEA**	300

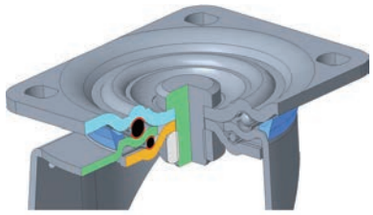
girevole piastra freno centrale integrale a camma / *swivel castor total central lock with cam*

							COD	daN
125x50	135x110	105x80	11x16	55	164	18,5	**1ZVT1250GEB**	225
160x40	135x110	105x80	11x16	55	199	18,5	**1ZVT160AGEB**	300
160x50	135x110	105x80	11x16	55	199	18,5	**1ZVT1600GEB**	300
200x50	135x110	105x80	11x16	55	239	18,5	**1ZVT2000GEB**	300

girevole piastra per posizionatore / *swivel castor for directional lock*

						COD	daN
125x50	135x110	105x80	11x16	55	164	**1ZVT1250GRT**	225
160x40	135x110/12	105x80	11x16	55	199	**1ZVT160AGRT**	300
160x50	135x110/12	105x80	11x16	55	199	**1ZVT1600GRT**	300
200x50	135x110/12	105x80	11x16	55	239	**1ZVT2000GRT**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere acciaio temperato.
Piste rotazione sfere calibrate e lubrificate con ralle di rotazione in acciaio temperato.
Anello di protezione sfere antipolvere.
Perno imbullonato ad alta resistenza per assemblaggio supporto.
Frenature integrale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel ball.
Calibrated and lubricated ball race tracks.
Dust protection ring.
High-resistance bolted central pin for assembling.
Foot lever total brake.

girevole piastra / *swivel castor*

						COD	daN
125x50	135x110	105x80	11x16	55	164	**1ZVT1250GM0**	225
160x40	135x110	105x80	11x16	55	199	**1ZVT160AGM0**	300
160x50	135x110	105x80	11x16	55	199	**1ZVT1600GM0**	300
180x50	135x110	105x80	11x16	55	219	**1ZVT1800GM0**	350
200x50	135x110	105x80	11x16	55	239	**1ZVT2000GM0**	350
250x50	135x110	105x80	11x16	55	290	**1ZVT2500GM0**	350

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	55	164	141	**1ZVT1250GMI**	225
160x40	135x110	105x80	11x16	55	199	141	**1ZVT160AGMI**	300
160x50	135x110	105x80	11x16	55	199	141	**1ZVT1600GMI**	300
180x50	135x110	105x80	11x16	55	219	141	**1ZVT1800GMI**	350
200x50	135x110	105x80	11x16	55	239	141	**1ZVT2000GMI**	350
250x50	135x110	105x80	11x16	55	290	141	**1ZVT2500GMI**	350

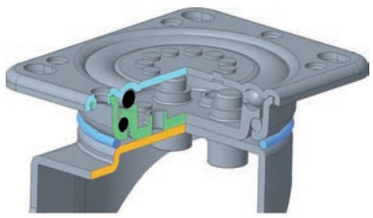
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	55	164	127	**1ZVT1250GMP**	225
160x40	135x110/14	105x80	11x16	55	199	127	**1ZVT160AGMP**	300
160x50	135x110/14	105x80	11x16	55	199	127	**1ZVT1600GMP**	300
180x50	135x110/14	105x80	11x16	55	219	127	**1ZVT1800GMP**	350
200x50	135x110/14	105x80	11x16	55	239	127	**1ZVT2000GMP**	350

fisso piastra / *fixed castor*

					COD	daN
125x50	135x110	105x80	11x16	164	**1ZVT1250FM0**	225
160x40	135x110	105x80	11x16	199	**1ZVT160AFM0**	300
160x50	135x110	105x80	11x16	199	**1ZVT1600FM0**	300
180x50	135x110	105x80	11x16	219	**1ZVT1800FM0**	350
200x50	135x110	105x80	11x16	239	**1ZVT2000FM0**	350
250x50	135x110	105x80	11x16	290	**1ZVT2500FM0**	350

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD	daN
100x40	105x85	80x60	9x16	40	140	**1ZVT1000GT0**	150
125x50	135x110	105x80	11x16	50	180	**1ZVT1250GT0**	225
160x40	135x110	105x80	11x16	50	212	**1ZVT160AGT0**	300
160x50	135x110	105x80	11x16	50	212	**1ZVT1600GT0**	300
180x50	135x110	105x80	11x16	50	232	**1ZVT1800GT0**	350
200x50	135x110	105x80	11x16	55	252	**1ZVT2000GT0**	400

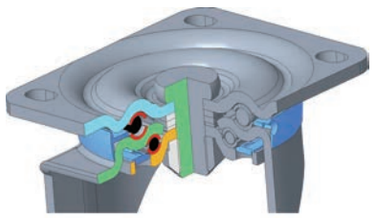
girevole piastra freno pedale anteriore / *swivel castor for directional lock*

							COD	daN
100x40	105x85	80x60	9x16	40	140	120	**1ZVT1000GTD**	150
125x50	135x110	105x80	11x16	50	180	146	**1ZVT1250GTD**	225
160x40	135x110	105x80	11x16	50	212	146	**1ZVT160AGTD**	300
160x50	135x110	105x80	11x16	50	212	146	**1ZVT1600GTD**	300
180x50	135x110	105x80	11x16	50	232	146	**1ZVT1800GTD**	350
200x50	135x110	105x80	11x16	55	252	146	**1ZVT2000GTD**	400

fisso piastra / *fixed castor*

					COD	daN
100x40	105x85	80x60	9x16	140	**1ZVT1000FT0**	150
125x50	135x110	105x80	11x16	180	**1ZVT1250FT0**	225
160x40	135x110	105x80	11x16	212	**1ZVT160AFT0**	300
160x50	135x110	105x80	11x16	212	**1ZVT1600FT0**	300
180x50	135x110	105x80	11x16	232	**1ZVT1800FT0**	350
200x50	135x110	105x80	11x16	252	**1ZVT2000FT0**	400

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
125x50	135x110	105x80	11x16	53	175	**1ZVT1250GH0**	225
160x40	135x110	105x80	11x16	55	207	**1ZVT160AGH0**	300
160x50	135x110	105x80	11x16	55	207	**1ZVT1600GH0**	300
180x50	135x110	105x80	11x16	60	242	**1ZVT1800GH0**	350
200x50	135x110	105x80	11x16	60	252	**1ZVT2000GH0**	400
250x50	135x110	105x80	11x16	65	300	**1ZVT2500GH0**	500

girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	53	175	118	**1ZVT1250GHR**	225
160x40	135x110	105x80	11x16	55	207	118	**1ZVT160AGHR**	300
160x50	135x110	105x80	11x16	55	207	118	**1ZVT1600GHR**	300
180x50	135x110	105x80	11x16	60	242	118	**1ZVT1800GHR**	350
200x50	135x110	105x80	11x16	60	252	118	**1ZVT2000GHR**	400
250x50	135x110	105x80	11x16	65	300	118	**1ZVT2500GHR**	500

fisso piastra / *fixed castor*

					COD	daN
125x50	135x110	105x80	11x16	175	**1ZVT1250FH0**	225
160x40	135x110	105x80	11x16	207	**1ZVT160AFH0**	300
160x50	135x110	105x80	11x16	207	**1ZVT1600FH0**	300
180x50	135x110	105x80	11x16	242	**1ZVT1800FH0**	350
200x50	135x110	105x80	11x16	252	**1ZVT2000FH0**	400
250x50	135x110	105x80	11x16	300	**1ZVT2500FH0**	500

SERIE R: SUPPORTO GIREVOLE ZINCATO FRENO PEDALE ANTERIORE O POSTERIORE
DIAMETRO RUOTA: 125-200, PORTATA: 225-300KG, PIASTRA: 135X110

SERIES R: ZINC PLATED SWIVEL CASTOR FRONT OR REAR FOOT LEVER BRAKE
WHEEL DIAMETER: 125-200, LOAD CAPACITY: 225-300KG, PLATE SIZE: 135X110

Dati tecnici/technical data pag.: 6 of class S

SERIE P: SUPPORTI HEAVY DUTY
DIAMETRO RUOTA: 125-250, PORTATA: 225-500KG, PIASTRA: 140X110 - 200X160

SERIES P: ZINC PLATED HEAVY DUTY
WHEEL DIAMETER: 125-250, LOAD CAPACITY: 225-500KG PLATE SIZE: 140X110 - 200X160

Dati tecnici/technical data pag.: 17 of class S

SERIE V: SUPPORTI ZINCATI WELDED HEAVY DUTY
DIAMETRO RUOTA: 100-250, PORTATA: 150-500KG, MISURA PIASTRA: 105X85 - 135X110

SERIES V: ZINC PLATED WELDED HEAVY DUTY
WHEEL DIAMETER: 100-250, LOAD CAPACITY: 150-500KG, PLATE SIZE: 105X85 - 135X110

Dati tecnici/technical data pag.: 18 of class S

POSIZIONATORE DIREZIONALE
(per supporti classe S a pagina 15 e 16)

DIRECTIONAL LOCK
(for castors class S page 15 and 16)

RUOTE GRAN CARICO

HIGH LOAD WHEELS

Caratteristiche Ruota

Le ruote Gran Carico sono un mezzo economico e molto efficiente quando occorrono alte portate e bassi ingombri.
Sono particolarmente adatte a rimorchi e pianali che movimentano merci e container nei porti, aereoporti, acciaierie e industria pesante in genere.
Temperatture di esercizio vanno da -20°C a +50°C con carichi ridotti si possono raggiungere per brevi intervalli di tempo gli 80°C.
Le ruote Gran Carico possono essere utilizzate sia come ruote motrici che come ruote folli.
Le ruote motrici hanno una portata inferiore a quelle delle ruote folli e, a seconda della coppia trasmessa, la portata può notevolmente variare.
E'tassativo nel calcolo della portata tenere presente che, nei mezzi privi di sospensione o snodi, il carico viene normalmente distribuito solamente su tre soli appoggi.
Le ruote Gran Carico di tipo normale sono costruite con il mozzo ricavato da tubo meccanico, due flange di lamiera e un anello esterno di lamiera calandrato o di tubo;
il tutto è assemblato mediante elettrosaldatura MIG.
Nel mozzo vengono normalmente ricavate le opportune sedi per i cuscinetti a sfere.

Wheel Features

The highload wheels are economic and very efficient when a high load capacity but small size is necessary.

They are particularly suitable for trailers and flatcars used for good and container movement in ports, airports, steel plants and heavy industries in general.

Working temperatures can be from -20°C to +50°C, and even uo to +80°C with reduced loads and for short periods.
The highload wheels can be used both as driving wheels and as freewheels.

The driving wheels have a lower load capacity than the freewheels and depending on the torque transmitted, the load capacity can be considerably change.
In calculating the load capacity, is should also be considered that in the case of vehicle without suspension or nonarticulated vehicles, the load is normally supported at only three points.
The normal type highload wheels are constructed with a hub composed of a mechanical tube, two sheel metal flanges and an external ring in either calendered metal or tubing, assembly is by MIG (metal inert-gas) electro welding.
The hub is normally made with bearing seats positioned inside.

	COD		c a b (a±b-c)	daN
200x50	**0AVL200052A**	50	52x15	400
200x80	**0AVL200A62A**	80	62x16	600
200x100	**0AVL200B62A**	100	62x16	800
200x120	**0AVL200C62A**	120	62x16	800
200x150	**0AVL200D72A**	150	72x17	1000
220x80	**0AVL220072B**	80	72x19	500
250x50	**0AVL250052A**	50	52x15	400
250x70	**0AVL250A62A**	70	62x16	600
250x80	**0AVL250B62A**	80	62x16	700
250x100	**0AVL250C62A**	100	62x16	800
250x120	**0AVL250D72A**	120	72x17	1100

	COD		(axb-c)	daN
250x150	0AVL250E72A	150	72x17	1200
300x50	0AVL300052A	50	52x15	500
300x80	0AVL300A62A	80	62x16	850
300x100	0AVL300B72A	100	72x17	1200
300x120	0AVL300C72A	120	72x17	1400
300x150	0AVL300D90B	150	90x23	1600
300x160	0AVL300E90C	160	90x25	1900
300x200	0AVL300F90B	200	90x23	2000
300x220	0AVL300G90B	220	90x23	2500
350x70	0AVL350072B	70	72x19	850
350x80	0AVL350A62A	80	62x16	900
350x100	0AVL350B72A	100	72x17	1300
350x150	0AVL350C90B	150	90x23	1800
350x200	0AVL350D90B	200	90x23	2200
400x80	0AVL400062A	80	62x16	800
400x100	0AVL400A72A	100	72x17	1000
400x120	0AVL400B72A	120	72x17	1500
400x150	0AVL400C90B	150	90x23	2000
400x200	0AVL400D110A	190	110x22	3000
400x230	0AVL400E110A	190	110x22	4000
400x250	0AVL400F110A	220	110x22	4500
400x300	0AVL400G110A	270	110x22	5500
405x130	0AVL405085A	130	85x19	1800
405x260	0AVL405A120A	207	120x27	4200
425x150	0AVL425010A	131	100x21	2100
425x300	0AVL425A12B	203	120x23	5100
450x300	0AVL450012A	270	120x27	5500
500x70	0AVL500072A	70	72x17	900
500x100	0AVL500A90B	100	90x23	1500
500x150	0AVL500B11A	150	110x22	2500
500x200	0AVL500C11A	190	110x22	4500
500x230	0AVL500D11A	190	110x22	5000
500x250	0AVL500E11C	200	110x35	5600
500x300	0AVL500F11A	270	110x22	7000
520x230	0AVL520011D	210	110x50	4900
550x229	0AVL5500110D	210	110x50	5000
550x285	0AVL550A140A	250	140x50	6100
550x356	0AVL550B140A	300	140x50	7600
550x400	0AVL550C140A	320	140x50	8500
650x254	0AVL6500140A	250	140x50	6100
654x300	0AVL650A140A	250	140x50	7300
713x254	0AVL7130140A	250	140x50	6300
713x305	0AVL713A140A	300	140x50	7500
713x356	0AVL713B160A	350	160x55	8500
713x400	0AVL713C160A	400	160x55	9500
914x360	0AVL9140160A	350	160x55	9500
914x400	0AVL914A160A	400	160x55	12000

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

CLASSE 3

GOMMA SUPERELASTICA E PNEUMATICA

SUPERELASTIC RUBBER E PNEUMATIC

CATALOGO *CATALOGUE* 2021

.

COMFORT E SICUREZZA

Sicure e robuste sono ruote composte da anello pieno in gomma o pneumatico, montato su nucleo in materiale plastico antiurto o in acciaio stampato e zincato.

COMFORT AND SAFETY

Safe solid rubber or pneumatic-tyred wheels with shock resistant plastic or pressed steel zinc-plated rims.

CAMPI DI APPLICAZIONE

Ideale per carrelli con varie applicazioni

Discreta resistenza agli agressivi chimici e buona resistenza all'abrasione.

Consigliate per mezzi di trazione manuali o meccanici.

FIELDS OF APPLICATION

Suitable for trolleys for several kinds of use.

Good resistance to chemicals and to abrasion.

Recommended for hand driven or mechanical traction trolleys.

RP

RUOTE NUCLEO IN PLASTICA ANELLO PNEUMATICO
PLASTIC CENTRE WHEELS WITH PNEUMATIC TYRES
Pag. 5

LP

RUOTE NUCLEO IN ACCIAO STAMPATO ANELLO PNEUMATICO
PRESSED STEEL CENTRE WHEELS WITH PNEUMATIC TYRE
Pag. 7

MP

RUOTE NUCLEO IN ACCIAO STAMPATO ANELLO PNEUMATICO
PRESSED STEEL CENTRE WHEELS WITH PNEUMATIC TYRES
Pag. 9

TRK

RUOTE NUCLEO IN ACCIAO STAMPATO ANELLO GOMMA NERA SUPERELASTIC
PRESSED STEEL CENTRE WHEELS WITH BLACK SUPERELASTIC RUBBER TYRES
Pag. 10

TRO

RUOTE NUCLEO IN ACCIAO STAMPATO ANELLO GOMMA NERA SUPERELASTIC
PRESSED STEEL CENTRE WHEELS WITH BLACK SUPERELASTIC RUBBER TYRES
Pag. 12

GOMME SUPERELASTIC
SUPERELASTIC RUBBER TYRES
Pag. 13

RUOTE NUCLEO IN PLASTICA ANELLO PNEUMATICO

PLASTIC CENTRE WHEELS WITH PNEUMATIC TYRES

Caratteristiche Ruota

Anello pneumatico con camera d'aria
Struttura portante in
materiale plastico antiurto.
Movimento mozzo:
alesaggio passante.
gabbia a rulli.
Temperatura d'impiego da –5°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Pneumatic tyre with tube
Shock resistant plastic centre wheel.
Type of bearing:
plain bearing.
roller bearing.
Temperature range: from –5°C to +60°C.
Fair resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

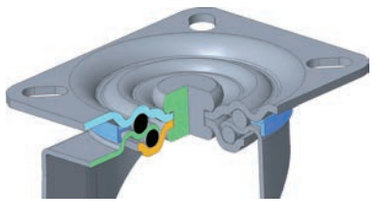
	COD		daN	COD		daN	inch	cerchio / rims	Profilo / *Profile*	n° tele / *ply n°*	*pressione gonfiaggio BAR air pressure*
200x50				**0RPR200020**	20x60	75		200-50	V207	2	2,50
260x85	**0RPA3004020**	20x75	200	**0RPR3004020**	20x75	200	3.00-4	2.10-4	V210	4	2,50

Varianti / *Options*

RB Anello pneumatico grigio
Grey pneumatic tyre

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
200x50	135x110	105x80	11x16	55	239			**1RPR2000GR0**	75
260x85	200x160	160x120	14x26	90	310	**1RPA30040GM0**	200	**1RPR30040GM0**	200

fisso piastra / *fixed castor*

					COD	daN	COD	daN
200x50	135x110	105x80	11x16	239			**1RPR2000FI0**	75
260x85	200x160	160x120	14x26	310	**1RPA30040FM0**	200	**1RPR30040FM0**	200

RUOTE NUCLEO IN ACCIAIO STAMPATO ANELLO PNEUMATICO

PRESSED STEEL CENTRE WHEELS WITH PNEUMATIC TYRES

Caratteristiche Ruota

Anello pneumatico con camera d'aria
Struttura portante composta da doppi dischi acciaio stampato zincati galvanicamente assemblati mediante bulloni
Movimento mozzo:
gabbia a rulli.
doppi cuscinetti a sfere tenuta stagna.
Temperatura d'impiego da –5°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Pneumatic tyre with tube
Pressed steel zinc-plated bolted rims.
Type of bearing:
roller bearing.
double waterproof ball bearings.
Temperature range: from –5°C to +60°C.
Fair resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

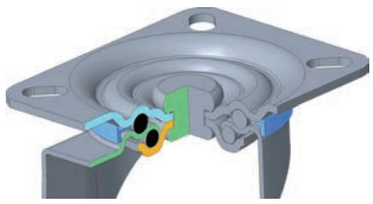
	COD		daN	COD		daN	inch	cerchio rims	Profilo *Profile*	n° tele *ply n°*	*pressione gonfiaggio BAR air pressure*
200x50	**0LPR200020**	20x60	75	**0LPT200017**	17x61	75		200-50	V207	2	2,50
260x85	**0LPR3004020**	20x75	200	**0LPT3004020**	20x75	200	3.00-4	2.10-4	V210	4	2,50

Varianti / *Options*

LB Anello pneumatico grigio
Grey pneumatic tyre

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
200x50	135x110	105x80	11x16	55	239	**1LPR2000GR0**	75	**1LPT2000GR0**	75
260x85	200x160	160x120	14x26	90	310	**1LPR30040GM0**	200	**1LPT30040GM0**	200

fisso piastra / *fixed castor*

					COD	daN	COD	daN
200x50	135x110	105x80	11x16	239	**1LPR2000FI0**	75	**1LPT2000FI0**	75
260x85	200x160	160x120	14x26	310	**1LPR30040FM0**	200	**1LPT30040FM0**	200

RUOTE NUCLEO IN ACCIAIO STAMPATO ANELLO PNEUMATICO

PRESSED STEEL CENTRE WHEELS WITH PNEUMATIC TYRES

Caratteristiche Ruota

Anello pneumatico con camera d'aria
Struttura portante composta da doppi dischi acciaio stampato elettrosaldato zincati galvanicamente assemblati mediante bulloni.
Movimento mozzo:
doppi cuscinetti a sfere.
Temperatura d'impiego da –5°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato:
manuale -meccanico

Wheel Features

Pneumatic tyre with tube
Pressed steel zinc plated bolted rims with electrically welded hub.
Type of bearing:
double ball bearings
Temperature range: from –5°C to +60°C.
Fair resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual - mechanical.

Pavimentazioni Idonee / *Floring Type*

	COD		daN	inch	cerchio rims	Profilo Profile	n° tele ply n°	pressione gonfiaggio BAR air pressure
260x80	**0MPK3004020**	20x76	200	3.00-4	2.10-4	V210	4	3,50
360x105	**0MPK4006020**	20x50	300	4.00-6	2.50C-6	C9325	8	6,00
380x90	**0MPK3508025**	25x60	250	3.50-8	2.45-8	C168	4	3,00
406x110	**0MPK4008C30**	30x92	850	4.00-8	3.00D-8	C9325	8	6,00
415x110	**0MPK4008A25**	25x60	300	4.00-8	2.45-8	V41	4	3,00
468x144	**0MPK5008030**	30x92	1200	5.00-8	3.00D-8	C9325	10	5,00

Varianti / *Options*

MESCOLA DI GOMMA
PER IMPIEGHI PARTICOLARI
(ANTITRACCIA, ANTISCIVOLO ECC.)

RUBBER TYRES FOR
SPECIAL APPLICATIONS
(NON-MARKING, NON.SLIP….)

Mozzo: doppi cuscinetti a sfera tenuta stagna
Type of bearing: water-proof ball bearing

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

RUOTE NUCLEO ACCIAIO STAMPATO ANELLO GOMMA NERA SUPERELASTIC

PRESSED STEEL CENTRE WHEELS WITH BLACK SUPERELASTIC RUBBER TYRES

Caratteristiche Ruota

Anello in gomma nera SUPERELASTIC
Struttura portante composta da doppi dischi acciaio stampato zincati galvanicamente assemblati mediante bulloni.
Movimento mozzo:
doppi cuscinetti a sfere
Temperatura d'impiego da –15°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Ottima resistenza all'abrasione.
Velocità massima di lavoro 6 km/h.
Mezzo di trazione consigliato: manuale-meccanico

Wheel Features

Black SUPERELASTIC rubber tyre
Pressed steel zinc-plated bolted rims.
Type of bearing:
double ball bearings
Temperature range:
from –15°C to +60°C.
Fair resistance to chemicals.
Very good resistance to abrasion.
Max. working speed 6 KPH.
Operation: manual-mechanical.

Pavimentazioni Idonee / *Floring Type*

	inch	cerchio / rims	COD		a	daN
200x80		2.10-4	**0TRK200020**	20x50	50	230
252x82	3.00-6	2.50C-6	**0TRK3006A20**	20x50	50	260
252x82	3.00-4	2.10-4	**0TRK3004B20**	20x50	50	260
252x82	3.00-4	2.10-4	**0TRK3004F25**	25x50	50	260
252x82	3.00-4	2.10-4	**0TRK3004N25**	25x50	50	260
306x92	4.00-6	2.50C-6	**0TRK4006A20**	20x50	50	450
306x92	4.00-4	2.50C-4	**0TRK4004N20**	20x50	50	450
306x92	4.00-4	2.50C-4	**0TRK4004Y20**	20x50	50	450
350x105	4.00-6	2.50C-6	**0TRK4006N20**	20x50	50	600
376x108	15x41/2x8	3.00D-8	**0TRK1548Z30**	30x92	92	1040
406x106	4.00-8	3.00D-8	**0TRK4008E30**	30x92	92	500
406x106	4.00-8	3.00D-8	**0TRK4008W30**	30x92	92	950
406x106	4.00-8	3.00D-8	**0TRK4008Y30**	30x92	92	950
406x106	4.00-8	3.00D-8	**0TRK4008Z30**	30x92	92	950
457x123	5.00-8	3.00D-8	**0TRK5008W30**	30x92	92	1415
457x123	5.00-8	3.00D-8	**0TRK5008Z30**	30x92	92	1415
522x145	6.00-9	4.00E-9	**0TRK6009Z35**	35x92	92	1885

Varianti / *Options*

Mozzo: doppi cuscinetti a sfera tenuta stagna
Type of bearing: water-proof ball bearing

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
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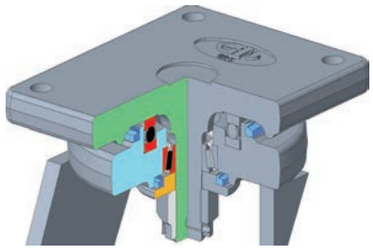
Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



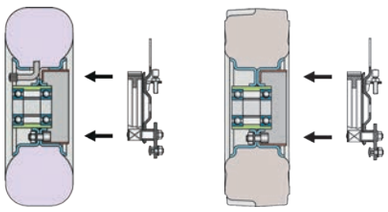
Forged steel elettrically welded,zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.Solid central monolithic pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
252x76	200x160	160x120	15,5	80	356	**1TRK3004NGE0**	260
306x92	200x160	160x120	15,5	87	392	**1TRK4004NGE0**	535
376x108	255x205	210x160	17,5	110	488	**1TRK1548SGE0**	1040
406x106	255x205	210x160	17,5	110	503	**1TRK4008EGE0**	950

fisso piastra / *fixed castor*

					COD	daN
252x76	200x160	160x120	15,5	356	**1TRK3004NFE0**	260
306x92	200x160	160x120	15,5	392	**1TRK4004NFE0**	535
376x108	255x205	210x160	17,5	488	**1TRK1548SFE0**	1040
406x106	255x205	210x160	17,5	503	**1TRK4008EFE0**	950



Ruota pneumatica o super elastica con predisposizione per ceppo freno.

Pneumatic or super elastic wheel with predisposition for brake shoe.

RUOTE NUCLEO ACCIAIO STAMPATO ANELLO GOMMA NERA SUPERELASTIC

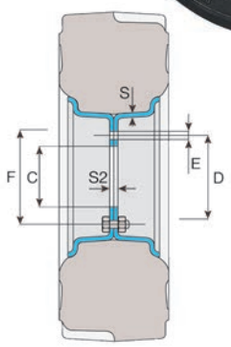
PRESSED STEEL CENTRE WHEELS WITH BLACK SUPERELASTIC RUBBER TYRES

Caratteristiche Ruota

Anello in gomma nera SUPERELASTIC
Struttura portante composta da doppi dischi acciaio stampato zincati galvanicamente assemblati mediante bulloni.
Movimento mozzo:
fori di fissaggio per viti.
Temperatura d'impiego da –15°C a +60°C.
Discreta resistenza agli aggressivi chimici.
Durezza battistrada 75 Sh.A +/-3.
Ottima resistenza all'abrasione.
Velocità massima di lavoro 6-10 km/h.
Mezzo di trazione consigliato: manuale-meccanico

Wheel Features

Black SUPERELASTIC rubber tyre
Pressed steel zinc-plated bolted rims.
Type of bearing:
fixing holes for bolts.
Temperature range: from –15°C to +60°C.
Fair resistance to chemicals.
Tread hardness 75 Sh.A +/-3.
Very good resistance to abrasion.
Max. working speed 6-10 KPH.
Operation: manual-mechanical.



Pavimentazioni Idonee / *Floring Type*

	COD	inch	cerchio rims	S	S2	ØC	fori n° holes	ØE	ØD	viti n° bolt	ØF		DIN.7852 6 Km/h	DIN.7852 10 Km/h
200x80	**0TR0200040**		2.10-4	3	6	40	3	M08	77	3	77	M08x16	230	200
252x82	**0TR03006A40**	3.00-6	2.50C-6	3	6	40	6	M08	77	8	115	M08x16	260	235
252x82	**0TR03004B40**	3.00-4	2.10-4	3	6	40	3	M08	77	3	77	M08x16	260	235
252x82	**0TR03004N40**	3.00-4	2.10-4	3	6	40	3	M08	77	3	77	M08x16	260	235
306x92	**0TR04006A40**	4.00-6	250C-6	3	6	40	6	M08	77	8	115	M08x16	535	485
306x92	**0TR04004N40**	4.00-4	2.50C-4	3	6	40	3	M08	77	3	77	M08x16	535	485
306x92	**0TR04004Y40**	4.00-4	2.50C-4	3	6	40	3	M08	77	3	77	M08x16	535	485
350x105	**0TR04006N62**	4.00-6	2.50C-6	5	10	62	4	M08	95	4	115	M08x20	600	500
376x108	**0TR01548Z62**	15x41/2x8	3.00D-8	4	8	62	4	M10	95	6	160	M10x20	1040	945
406x106	**0TR04008E62**	4.00-8	3.00D-8	4	8	62	4	M10	95	6	160	M10x20	500	400
406x106	**0TR04008W62**	4.00-8	3.00D-8	4	8	62	4	M10	95	6	160	M10x20	950	860
406x106	**0TR04008Z62**	4.00-8	3.00D-8	4	8	62	4	M10	95	6	160	M10x20	950	860
457x123	**0TR05008W62**	5.00-8	3.00D-8	4	8	62	4	M10	95	6	160	M10x20	1415	1285
457x123	**0TR05008Z62**	5.00-8	3.00D-8	4	8	62	4	M10	95	6	160	M10x20	1415	1285
522x145	**0TR06009Z62**	6.00-9	4.00E-9	5	10	62	4	M12	95	6	178	M12x25	1885	1710

Varianti / *Options*

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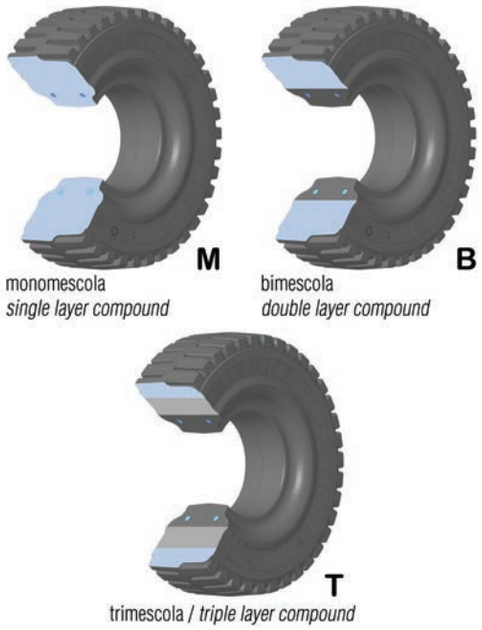
GOMME ELASTICHE
ELASTIC TYRES

Caratteristiche

Le gomme superelastiche associano alle normali caratteristiche dei pneumatici industriali i vantaggi delle ruote piene.
Possono essere montate su normali cerchioni e possono operare normalmente in condizioni di sicurezza fino ad una velocità di 25 km/h.
Le gomme vengono utilizzate senza problemi in tutti i settori industriali.
I vari strati che le compongono (tallone, fascia centrale e battistrada) sono state studiate specificatamente per le necessità industriali ed ottimizzate nel corso di oltre vent'anni di esperienza.

Features

Superelastic tyres combine the characteristic features of industrial pneumatic tyres with the advantages of solid rubber tyres.
They can be mounted on pneumatic tyre rims and are officially approved for a speed of 25 Km/h (15 m.p.h.) tyres are found as reliable and accepted patners in every branch of industry.
The construction components (tread, centre, base part) were developed to meet every requirement of the industrial vehicle industry and have been optimized in the course of over 20 years' experience.



monescola *single layer compound*
bimescola *double layer compound*
trimescola / *triple layer compound*

	COD	inch	cerchio *rims*	Sh.A	Tipo Gomma *rubber type*	Tipo *Type*	Profilo *Profile*	Colore *Colors*	daN
200x80-4"	**8PE0008004CBG**		2.10-4	80±5	M	3	BT	G	230
200x80-4"	**8PE0008004ARD**		2.10-4	65±5	B	3	R	G	230
200x80-4"	**8PE0008004ARG**		2.10-4	80±5	M	3	R	G	230
200x80-4"	**8PE0008004ARN**		2.10-4	80±5	M	1	R	N	230
200x80-4"	**8PE0008004CBS**		2.10-4	80±5	M	1	BT	N	230
230x80-4"	**8PE0008004BBC**		2.10-4	80±5	M	1	BR	N	230
250x85-4"	**8PE0008504ABR**		2.10-4	85±5	M	1	BR	N	230
252x82	**8PP0003004A10**	3.00-4	2.10-4	80±3	T	3	T	M	260
252x82	**8PB0003004AS**	3.00-4	2.10-4	67±3	B	1	T	N	260
252x82	**8PV0003004AS**	3.00-4	2.10-4	60±3	T	5	T	A	260
252x82	**8GN0003004ABS**	3.00-4	2.10-4	71±5	T	1	BT	N	260
252x82	**8PA0003006AS**	3.00-6	2.50C-6	53±3	T	2	T	M	260
252x82	**8PV0003006AS**	3.00-6	2.50C-6	60±3	T	5	T	A	260
252x82	**8PP0003006A10**	3.00-6	2.50C-6	80±3	T	3	T	M	260
252x82	**8GN0003004AS**	3.00-4	2.10-4	71±5	T	1	T	N	260
252x82	**8PA0003004ABS**	3.00-4	2.10-4	53±3	T	2	B	M	260
252x82	**8GN0003006AS**	3.00-6	2.50C-6	71±5	T	1	T	N	260
252x82	**8PE0003004ASN**	3.00-4	2.10-4	80±5	M	1	T	N	260
252x82	**8PE0003004AS**	3.00-4	2.10-4	69±5	M	1	T	G	260
252x82	**8PE0003006AS**	3.00-4	2.50C-6	69±3	M	1	T	G	260
252x82	**8PE0003004ABS**	3.00-4	2.10-4	69±3	M	1	B	G	260
300x90	**8GG300090A0S**		2.50C-6	65±5	T	3	T	G	450
300x90	**8PA300090A0S**		2.50C-6	53±3	T	2	T	M	450
306x92	**8GG0004006ASR**	4.00-6SR	2.50C-6	65±5	T	3	T	G	450
306x92	**8PP0004004A10**	4.00-4	2.50C-4	80±3	T	3	RT	M	450
306x92	**8PV0004004AS**	4.00-4	2.50C-4	60±3	T	5	RT	A	450
306x92	**8PA0004004AS**	4.00-4	2.50C-4	53±3	T	2	RT	M	450
306x92	**8PV0004006ASR**	4.00-6SR	2.50C-6	60±3	T	5	T	A	450
306x92	**8PP0004006A10**	4.00-6SR	2.50C-6	80±3	T	3	RT	M	450
306x92	**8GN0004006ASR**	4.00-6SR	2.50C-6	71±5	T	1	T	N	450
306x92	**8PA0004006ASR**	4.00-6SR	2.50C-6	53±3	T	2	T	M	450
306x92	**8GN0004004AS**	4.00-4	2.50C-4	71±5	T	1	RT	N	450

	COD	inch	cerchio rims	Sh.A	Tipo Gomma rubber type	Tipo Type	Profilo Profile	Colore Colors	daN
306x92	**8PE0004006ASR**	4.00-6	SR2.50C-6	53±3	M	2	T	G	450
350x105	**8PA0004006AS**	4.00-6	2.50C-6	53±3	T	2	RT	M	600
350x105	**8GN0004006AS**	4.00-6	2.50C-6	71±5	T	1	T	N	600
406x106	**8GG0004008AR**	4.00-8	3.00D-8	75±5	T	3	R	G	500
406x106	**8PV0004008AR**	4.00-8	3.00D-8	60±3	T	5	RT	A	500
406x106	**8GN0004008AR**	4.00-8	3.00D-8	80±5	T	1	R	N	500

Legenda / *Legend*

Tipo
Type

1: antiabrasiva
2: antiabrasiva antitraccia
3: antitraccia
4: antiscivolo
5: antiscivolo antitraccia

1: *abrasion proof*
2: *abrasion proof and non marking*
3: *non marking*
4: *non slip*
5: *non slip and non marking*

Profilo
Profile

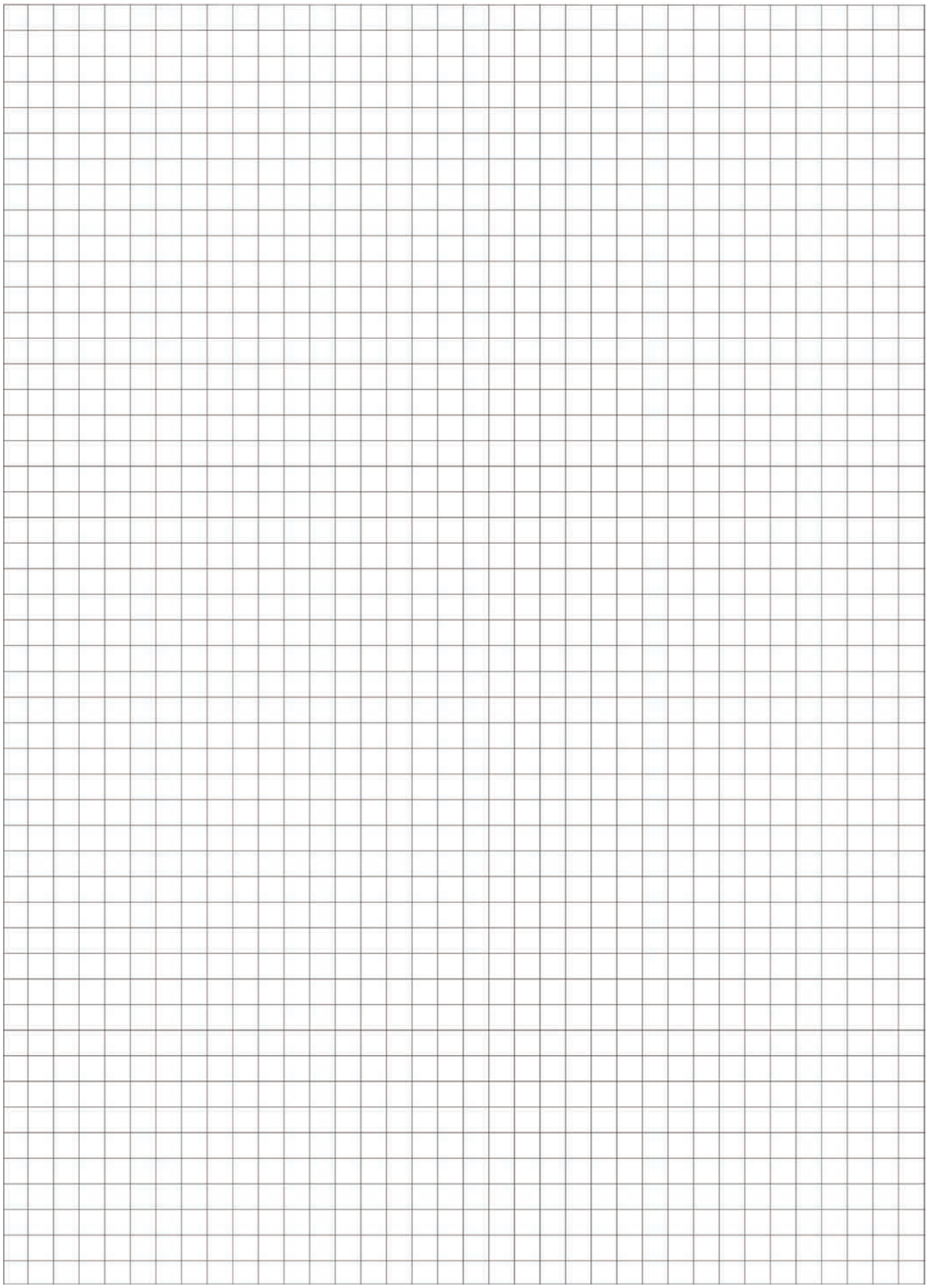
T: tassellato
B: bombato
BR: bombato rigato
R: rigato
RT: rigato tassellato

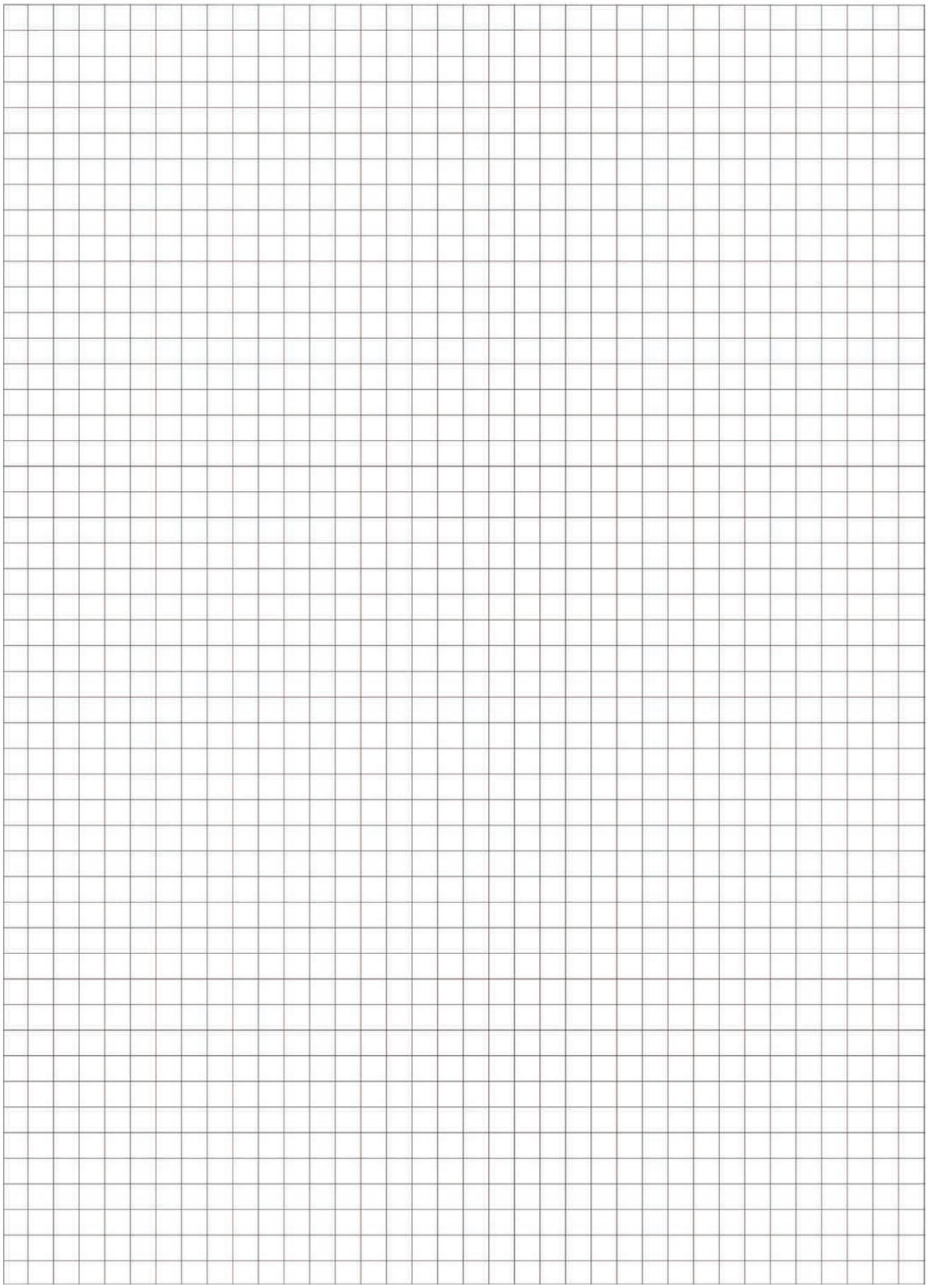
T: *knobs block tread*
B: *rounded tread pattern*
BR: *rounded and rib tread patern*
R: *tread patern*
RT: *knobs rib pattern with stripes guides*

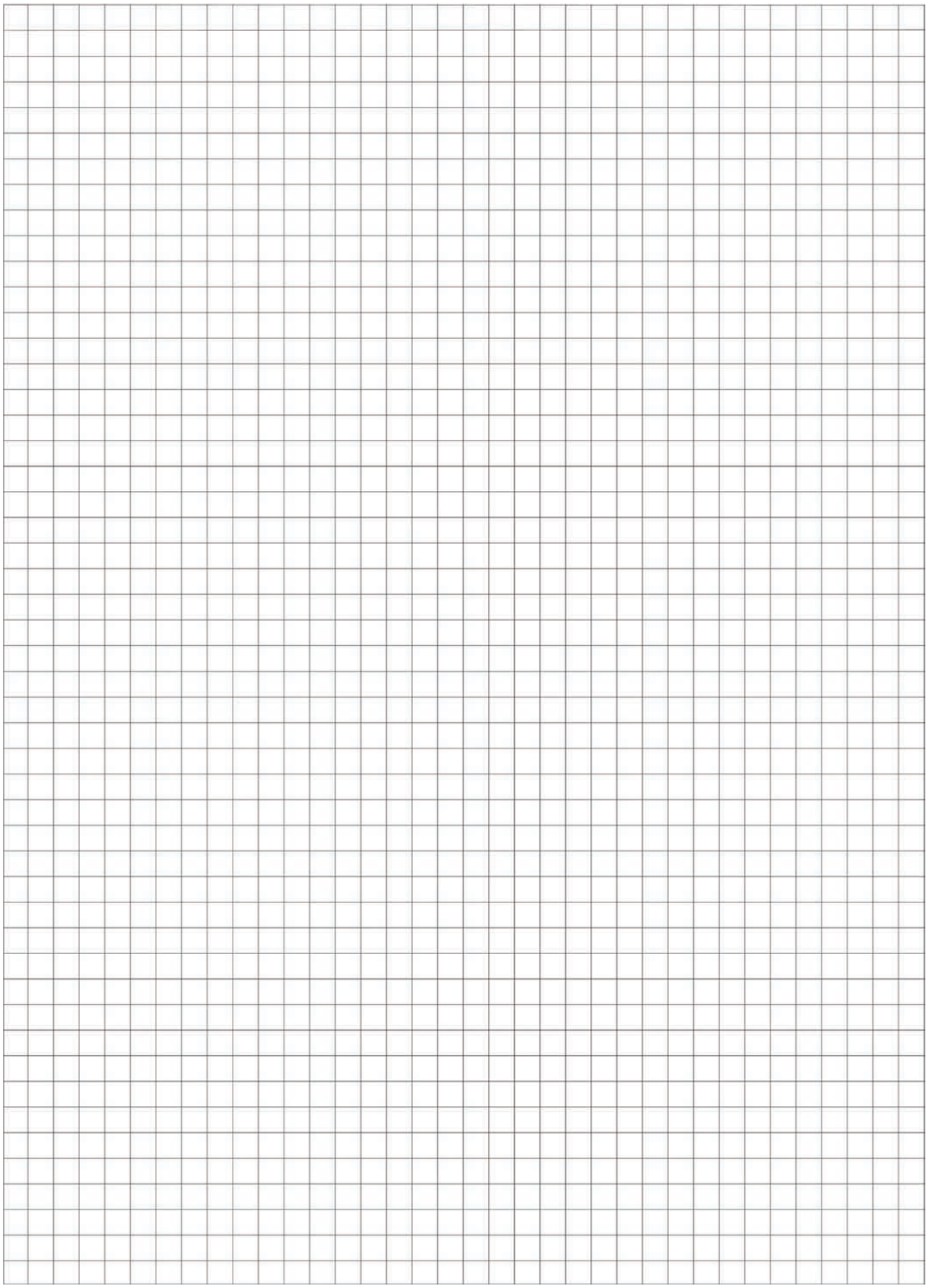
Colore
Colors

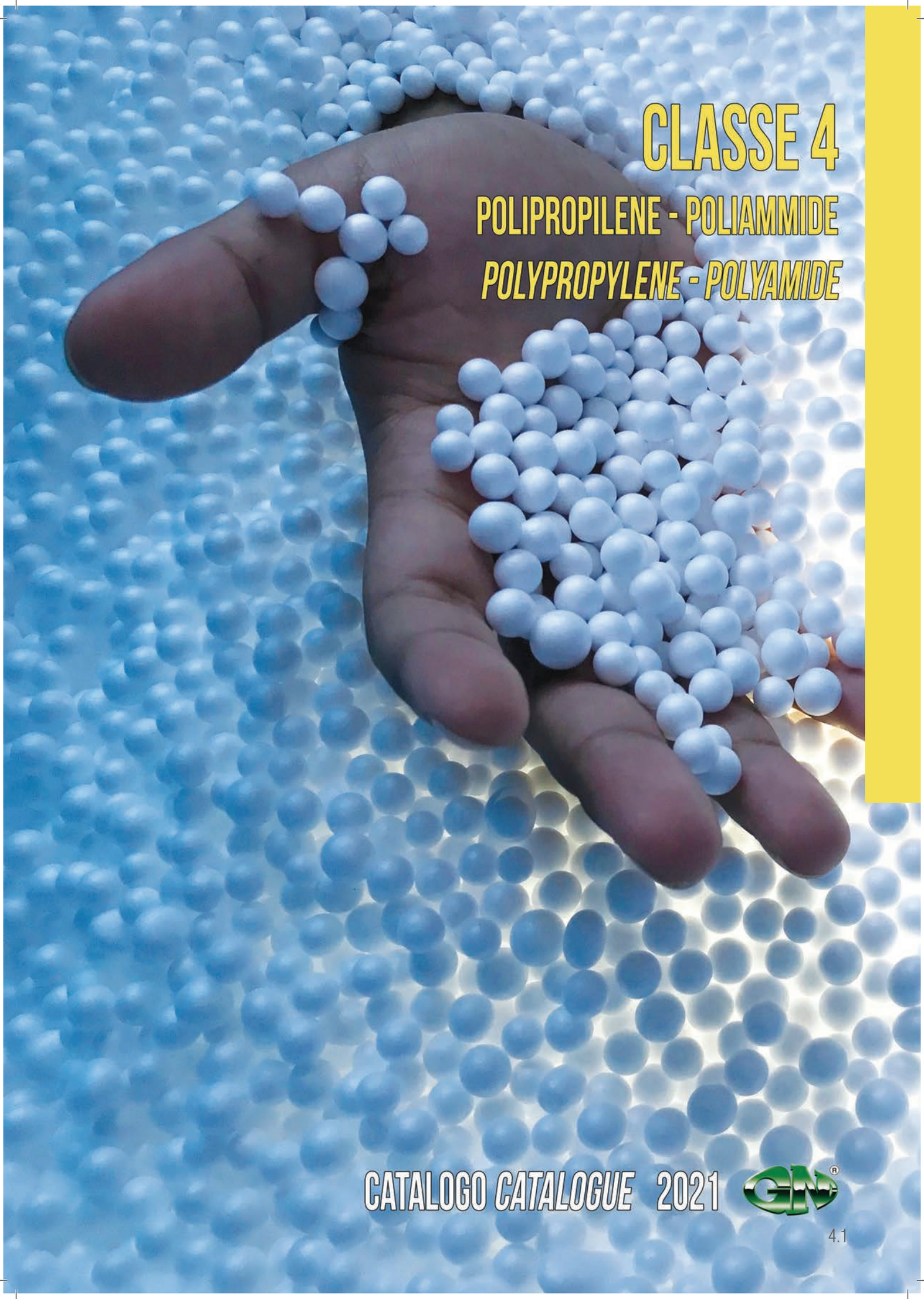
N: nero
G: grigio
M: marrone
A: avorio

N: *black*
G: *grey*
M: *brown*
A: *ivory*









CLASSE 4

POLIPROPILENE - POLIAMMIDE

POLYPROPYLENE - POLYAMIDE

CATALOGO *CATALOGUE* 2021

.

IGIENICITA' E DURATA NEL TEMPO

Ruote realizzate con struttura portante monolitica in polipropilene antiurto o poliammide 6 ad alta densità per garantire una buona robustezza.

HYGIENE AND LONG LASTING

Impact resistant polypropylene or high-density polyamide 6 wheels to guarantee a very good strenghtness.

CAMPI DI APPLICAZIONE

Le ottime caratteristiche tecniche di questa serie di ruote le rendono idonee all'utilizzo su un ampia gamma di carrelli e attrezzature: dall'industria leggera, esempio la distribuzione, a quella medio pesante. In particolare, l'igienicità dei materiali impiegati ne consente l'impiego negli ambienti del settore alimentare.

Buona resistenza agli aggressivi chimici e all'abrasione

Ottima igienicità, scorrevolezza e durata nel tempo.

Consigliati per mezzi a trazione manuale, ad uso interno e pavimentazioni compatte.

FIELDS OF APPLICATION

Thanks to great techincal characteristics, that offer good resistance to chemicals and to abrasion, this range of wheels is suitable for many kind of trolleys and devices used in light and medium industry.

Also food industry needs this kind of wheels for high hygiene standards.

Widely applied on trolleys that need fit high standards of hygiene and long lasting are hand driven recommended for indoor and smooth floors.

PP

RUOTE A STRUTTURA MONOLITICA IN POLIPROPILENE
POLYPROPYLENE WHEELS
Pag. 5

RF

RUOTE A STRUTTURA MONOLITICA IN POLIAMMIDE PA6-GF30
PA6-GF30 POLYAMIDE WHEELS
Pag. 9

NN

RUOTE A STRUTTURA MONOLITICA IN POLIAMMIDE
POLYAMIDE WHEELS
Pag. 12

TJ

RULLI A STRUTTURA MONOLITICA IN POLIAMMIDE
POLYAMIDE ROLLERS
Pag. 25

N5

RUOTE IN POLIAMMIDE 6 ALTA PORTATA
POLYAMIDE 6 WHEELS HEAVY DUTY
Pag. 28

RUOTE A STRUTTURA MONOLITICA IN POLIPROPILENE

POLYPROPYLENE WHEELS

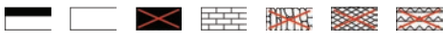
Caratteristiche Ruota

Struttura portante in polipropilene antiurto colore naturale.
Movimento mozzo:
alesaggio passante.
gabbia a rulli.
Temperatura d'impiego da –15°C a +40°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

White shock resistant polypropylene wheel.
Type of bearing:
plain bearing.
roller bearing.
Temperature range: from –15°C to +40°C.
Good resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*



	COD		daN	COD		daN
80x30	**0PPA080012**	12x40	80			
100x35	**0PPA100012**	12x40	100	**0PPR100012**	12x40	120
125x40	**0PPA125015**	15x46	130	**0PPR125015**	15x46	150
150x40	**0PPA150015**	15x46	140			
150x40	**0PPA150A20**	20x60	150			
175x50	**0PPA175020**	20x60	190			
200x50	**0PPA200020**	20x60	205			

Varianti / *Options*

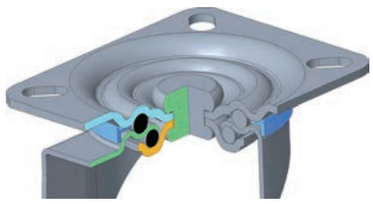
PB Colore nero
PB Black color

Movimento mozzo: gabbia a rulli inox
Type of bearing: stainless steel roller bearing

Parafili in lega leggera
Light Metal thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	**1PPA0800GR0**	80		
100x35	105x85	80x60	9x16	38	128	**1PPA1000GR0**	100	**1PPR1000GR0**	120
125x40	105x85	80x60	9x16	45	155	**1PPA1250GR0**	130	**1PPR1250GR0**	150
150x40	105x85	80x60	9x16	45	183	**1PPA1500GR0**	140		
150x40	135x110	105x80	11x16	55	194	**1PPA150AGR0**	150		
175x50	135x110	105x80	11x16	55	217	**1PPA1750GR0**	190		
200x50	135x110	105x80	11x16	55	239	**1PPA2000GR0**	205		

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	120	**1PPA0800GRI**	80		
100x35	105x85	80x60	9x16	38	128	120	**1PPA1000GRI**	100	**1PPR1000GRI**	120
125x40	105x85	80x60	9x16	45	155	120	**1PPA1250GRI**	130	**1PPR1250GRI**	150
150x40	105x85	80x60	9x16	45	183	120	**1PPA1500GRI**	140		
150x40	135x110	105x80	11x16	55	194	140	**1PPA150AGRI**	150		
175x50	135x110	105x80	11x16	55	217	140	**1PPA1750GRI**	190		
200x50	135x110	105x80	11x16	55	239	140	**1PPA2000GRI**	205		

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN
80x30	12	77	38	104	**1PPA0800QR0**	80		
100x35	12	77	38	124	**1PPA1000QR0**	100	**1PPR1000QR0**	120
125x40	12	77	45	151	**1PPA1250QR0**	130	**1PPR1250QR0**	150
150x40	12	77	45	179	**1PPA1500QR0**	140		
150x40	16	103	55	188	**1PPA150AQR0**	150		
175x50	16	103	55	211	**1PPA1750QR0**	190		
200x50	16	103	55	233	**1PPA2000QR0**	205		

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN	COD	daN
80x30	12	77	38	104	120	**1PPA0800QRI**	80		
100x35	12	77	38	124	120	**1PPA1000QRI**	100	**1PPR1000QRI**	120
125x40	12	77	45	151	120	**1PPA1250QRI**	130	**1PPR1250QRI**	150
150x40	12	77	45	179	120	**1PPA1500QRI**	140		
150x40	16	103	55	188	140	**1PPA150AQRI**	150		
175x50	16	103	55	211	140	**1PPA1750QRI**	190		
200x50	16	103	55	233	140	**1PPA2000QRI**	205		

fisso piastra / *fixed castor*

					COD	daN	COD	daN
80x30	105x85	80x60	9x16	108	**1PPA0800FI0**	80		
100x35	105x85	80x60	9x16	128	**1PPA1000FI0**	100	**1PPR1000FI0**	120
125x40	105x85	80x60	9x16	155	**1PPA1250FI0**	120	**1PPR1250FI0**	120
150x40	105x85	80x60	9x16	183	**1PPA1500FI0**	120		
150x40	135x110	105x80	11x16	194	**1PPA150AFI0**	120		
175x50	135x110	105x80	11x16	217	**1PPA1750FI0**	190		
200x50	135x110	105x80	11x16	239	**1PPA2000FI0**	205		

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 80-205KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 80-205KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 80-205KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 80-205KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

RUOTE A STRUTTURA MONOLITICA IN POLIAMMIDE PA6-GF30

PA6-GF30 POLYAMIDE WHEELS

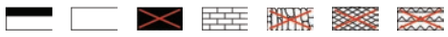
Caratteristiche Ruota

Struttura portante in poliammide 6 ad alta densità
Movimento mozzo:
alesaggio passante.
gabbia a rulli.
gabbia a rulli con pista di scorrimento in acciaio cuscinetti con rulli temperati.
Temperatura d'impiego da –40°C a +80°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

High density polyamide 6 wheel.
Type of bearing:
plain bearing.
roller bearing.
roller bearing with steel tube
ball bearings with tempered rollers.
Temperature range: from –40°C to +80°C.
Good resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

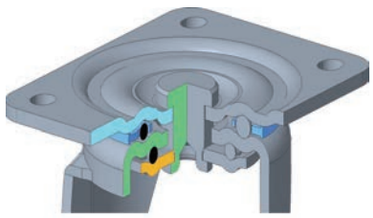


50x35	**0RFA050A12**	12x40	150										
60x34	**0RFA060A15**	15x36	200										
63x38							**0RFE063012**	12x40	180				
76x46							**0RFE076015**	15x50	350	**0RFD076018**	18x50		550
76x46				**0RFR076A15**	15x50	200							
100x46							**0RFE100015**	15x50	400				

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato di notevole spessore verniciati colore nero.
Carichi elevati con ingombri ridotti.
Perno rivettato ad alta resistenza per assemblaggi supporto.
Predisposizione per frenatura della sola ruota.



High thickness, pressed steel, black painted components
for high loads and with reduced sizes.
High-resistance rivetted pin for housing's assembling.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
50x35	95x65	74,5x44,5	7,5x7,5	24	64	**1RFA050AGG0**	150				
60x34	95x65	74,5x44,5	7,5x7,5	27	77	**1RFA060AGG0**	150				
63x38	95x65	74,5x44,5	7,5x7,5	27	79			**1RFE0630GG0**	150		
76x46	110x85	86,5x60	8,5x8,5	22	100			**1RFR0760GG0**	200		
76x46	110x85	86,5x60	8,5x8,5	22	100			**1RFE076AGG0**	200		
76x46	110x85	86,5x60	8,5x8,5	22	105					**1RFD0760GG0**	550
100x46	110x85	86,5x60	8,5x8,5	22	125			**1RFE1000GG0**	350		

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN	COD	daN
76x46	12	84	22	100			**1RFR0760QG0**	200		
76x46	12	84	22	100			**1RFE076AQG0**	200		
100x46	12	84	22	125			**1RFE1000QG0**	350		

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
50x35	92x65	74,5x44,5	8,5x8,5	64	**1RFA050AFG0**	150				
60x34	92x65	74,5x44,5	7,5x7,5	77	**1RFA060AFG0**	150				
63x38	92x65	74,5x44,5	8,5x8,5	79			**1RFE0630FG0**	150		
76x46	105x64	86,5x49,5	8,5x8,5	100			**1RFE076AFG0**	200		
76x46	105x64	86,5x49,5	8,5x8,5	105					**1RFD0760FG0**	550
76x46	105x64	86,5x49,5	8,5x8,5	100			**1RFR0760FG0**	200		
100x46	105x64	86,5x49,5	8,5x8,5	125			**1RFE1000FG0**	350		

SERIE: G SUPPORTO HEAVY DUTY CON FRENO RUOTA
DIAMETRO RUOTA 50-125, PORTATA: 150-350KG

SERIES: G HOUSING HEAVY DUTY WITH WHEEL BRAKE
DIAMETER WHEEL: 50-125, LOAD CAPACITY: 150-350KG

Dati tecnici/technical data pag.: 19-20 of class S

RUOTE A STRUTTURA MONOLITICA IN POLIAMMIDE

POLYAMIDE WHEELS

Caratteristiche Ruota

Struttura portante in poliammide 6
ad alta densità
Movimento mozzo:
alesaggio passante.
gabbia a rulli.
gabbia a rulli con pista di scorrimento in acciaio.
doppi cuscinetti a tenuta stagna.
Temperatura d'impiego da –15°C a +80°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

High density polyamide 6 wheel.
Type of bearing:
plain bearing.
roller bearing.
roller bearing with steel tube.
double waterproof ball bearings.
Temperature range: from –15°C to +80°C.
Good resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

	COD		daN	COD		daN	COD		daN	COD			daN
80x30	**0NNA080012**	12x40	150	**0NNR080012**	12x40	150							
80x35							**0NNE080A12**	12x40	200				
100x35	**0NNA100012**	12x40	200	**0NNR100012**	12x40	200							
100x40	**0NNA100A15**	15x46	250				**0NNE100A15**	15x46	250				
100x45	**0NNA100B20**	20x60	350				**0NNE100B20**	20x60	350	**0NNT100B20**	20x61	40	400
100x50										**0NNT100C20**	20x61	50	600
125x40	**0NNA125015**	15x46	300	**0NNR125015**	15x46	300							
125x45	**0NNA125B20**	20x60	500				**0NNE125B20**	20x60	500	**0NNT125B20**	20x61	40	700
125x50										**0NNT125C20**	20x61	50	900
150x40	**0NNA150015**	15x46	400	**0NNR150015**	15x46	400							
150x40	**0NNA150A20**	20x60	400										
150x50	**0NNA150B20**	20x60	700				**0NNE150B20**	20x60	500	**0NNT150B20**	20x61	40	900
150x50										**0NNT150C20**	20x61	50	1100
175x50	**0NNA175020**	20x60	600							**0NNT175020**	20x61	50	700
175x50							**0NNE175A20**	20x60	600				
200x50	**0NNA200020**	20x60	500										
200x50	**0NNA200A20**	20x60	800				**0NNE200A20**	20x60	800	**0NNT200A20**	20x61	40	1000
200x50										**0NNT200B25**	25x61	50	1250
250x50	**0NNA250A25**	25x60	1200							**0NNT250A25**	25x61	50	1250
250x60										**0NNT250025**	25x76	55	1300

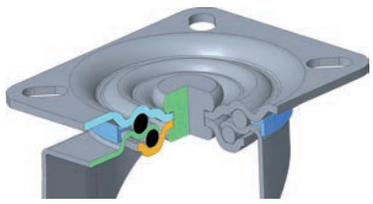
Varianti / *Options*

Parafili in lega leggera
Light Metal thread guards

Parafili in poliammide
Polyamide thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	**1NNA0800GR0**	120	**1NNR0800GR0**	120		
80x35	105x85	80x60	9x16	38	108			**1NNE080AGR0**	120		
100x35	105x85	80x60	9x16	38	128	**1NNA1000GR0**	120	**1NNR1000GR0**	120		
100x40	105x85	80x60	9x16	45	128	**1NNA100AGR0**	180	**1NNE100AGR0**	180		
100x45	135x110	105x80	11x16	55	140	**1NNA100BGR0**	300	**1NNE100BGR0**	300	**1NNT100BGR0**	300
125x40	105x85	80x60	9x16	45	155	**1NNA1250GR0**	180	**1NNR1250GR0**	180		
125x45	135x110	105x80	11x16	55	164	**1NNA125BGR0**	300	**1NNE125BGR0**	300	**1NNT125BGR0**	300
150x40	105x85	80x60	9x16	45	183	**1NNA1500GR0**	180	**1NNR1500GR0**	180		
150x40	135x110	105x80	11x16	55	194	**1NNA150AGR0**	300				
150x50	135x110	105x80	11x16	55	194			**1NNE150BGR0**	300	**1NNT150BGR0**	300
175x50	135x110	105x80	11x16	55	217	**1NNA1750GR0**	300				
175x50	135x110	105x80	11x16	55	217			**1NNE175AGR0**	300		
200x50	135x110	105x80	11x16	55	239	**1NNA2000GR0**	300				
200x50	135x110	105x80	11x16	55	239	**1NNA200AGR0**	300	**1NNE200AGR0**	300	**1NNT200AGR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	120	**1NNA0800GRI**	120	**1NNR0800GRI**	120		
80x35	105x85	80x60	9x16	38	108	120			**1NNE080AGRI**	120		
100x35	105x85	80x60	9x16	38	128	120	**1NNA1000GRI**	120	**1NNR1000GRI**	120		
100x40	105x85	80x60	9x16	45	128	120	**1NNA100AGRI**	180	**1NNE100AGRI**	180		
100x45	135x110	105x80	11x16	55	140	140	**1NNA100BGRI**	300	**1NNE100BGRI**	300	**1NNT100BGRI**	300
125x40	105x85	80x60	9x16	45	155	120	**1NNA1250GRI**	180	**1NNR1250GRI**	180		
125x45	135x110	105x80	11x16	55	164	140	**1NNA125BGRI**	300	**1NNE125BGRI**	300	**1NNT125BGRI**	300
150x40	105x85	80x60	9x16	45	183	120	**1NNA1500GRI**	180	**1NNR1500GRI**	180		
150x40	135x110	105x80	11x16	55	194	140	**1NNA150AGRI**	300				
150x50	135x110	105x80	11x16	55	194	140	**1NNA150BGRI**	300	**1NNE150BGRI**	300	**1NNT150BGRI**	300
175x50	135x110	105x80	11x16	55	217	140	**1NNA1750GRI**	300				
175x50	135x110	105x80	11x16	55	217	140			**1NNE175AGRI**	300		
200x50	135x110	105x80	11x16	55	239	140	**1NNA2000GRI**	300				
200x50	135x110	105x80	11x16	55	239	140	**1NNA200AGRI**	300	**1NNE200AGRI**	300	**1NNT200AGRI**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN	COD	daN
80x30	12	77	38	104	**1NNA0800QR0**	120	**1NNR0800QR0**	120		
80x35	12	77	38	104			**1NNE080AQR0**	120		
100x35	12	77	38	124	**1NNA1000QR0**	120	**1NNR1000QR0**	120		
100x40	12	77	45	124	**1NNA100AQR0**	180	**1NNE100AQR0**	180		
100x45	16	103	55	134	**1NNA100BQR0**	300	**1NNE100BQR0**	300	**1NNT100BQR0**	300
125x40	12	77	45	151	**1NNA1250QR0**	180	**1NNR1250QR0**	180		
125x45	16	103	55	158	**1NNA125BQR0**	300	**1NNE125BQR0**	300	**1NNT125BQR0**	300
150x40	12	77	45	179	**1NNA1500QR0**	180	**1NNR1500QR0**	180		
150x40	16	103	55	188	**1NNA150AQR0**	300				
150x50	16	103	55	188			**1NNE150BQR0**	300	**1NNT150BQR0**	300
175x50	16	103	55	211	**1NNA1750QR0**	300				
175x50	16	103	55	211			**1NNE175AQR0**	300		
200x50	16	103	55	233	**1NNA2000QR0**	300				
200x50	16	103	55	233	**1NNA200AQR0**	300	**1NNE200AQR0**	300	**1NNT200AQR0**	300

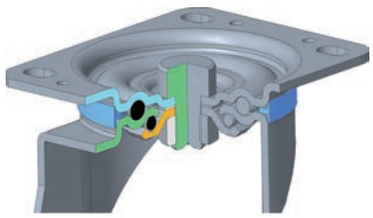
girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN	COD	daN	COD	daN
80x30	12	77	38	104	120	**1NNA0800QRI**	120	**1NNR0800QRI**	120		
80x35	12	77	38	104	120			**1NNE080AQRI**	120		
100x35	12	77	38	124	120	**1NNA1000QRI**	120	**1NNR1000QRI**	120		
100x40	12	77	45	124	120	**1NNA100AQRI**	180	**1NNE100AQRI**	180		
100x45	16	103	55	134	140	**1NNA100BQRI**	300	**1NNE100BQRI**	300	**1NNT100BQRI**	300
125x40	12	77	45	151	120	**1NNA1250QRI**	180	**1NNR1250QRI**	180		
125x45	16	103	55	158	140	**1NNA125BQRI**	300	**1NNE125BQRI**	300	**1NNT125BQRI**	300
150x40	12	77	45	179	120	**1NNA1500QRI**	180	**1NNR1500QRI**	180		
150x40	16	103	55	188	140	**1NNA150AQRI**	300				
150x50	16	103	55	188	140	**1NNA150BQRI**	300	**1NNE150BQRI**	300	**1NNT150BQRI**	300
175x50	16	103	55	211	140	**1NNA1750QRI**	300				
175x50	16	103	55	211	140			**1NNE175AQRI**	300		
200x50	16	103	55	233	140	**1NNA2000QRI**	300				
200x50	16	103	55	233	140	**1NNA200AQRI**	300	**1NNE200AQRI**	300	**1NNT200AQRI**	300

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	108	**1NNA0800FI0**	120	**1NNR0800FI0**	120		
80x35	105x85	80x60	9x16	108			**1NNE080AFI0**	120		
100x35	105x85	80x60	9x16	128	**1NNA1000FI0**	120	**1NNR1000FI0**	120		
100x40	105x85	80x60	9x16	128	**1NNA100AFI0**	120	**1NNE100AFI0**	120		
100x45	135x110	105x80	11x16	140	**1NNA100BFI0**	300	**1NNE100BFI0**	300	**1NNT100BFI0**	300
125x40	105x85	80x60	9x16	155	**1NNA1250FI0**	120	**1NNR1250FI0**	120		
125x45	135x110	105x80	11x16	164	**1NNA125BFI0**	300	**1NNE125BFI0**	300	**1NNT125BFI0**	300
150x40	105x85	80x60	9x16	183	**1NNA1500FI0**	120	**1NNR1500FI0**	120		
150x40	135x110	105x80	11x16	194	**1NNA150AFI0**	300				
150x50	135x110	105x80	11x16	194			**1NNE150BFI0**	300	**1NNT150BFI0**	300
175x50	135x110	105x80	11x16	217	**1NNA1750FI0**	300				
175x50	135x110	105x80	11x16	217			**1NNE175AFI0**	300		
200x50	135x110	105x80	11x16	239	**1NNA2000FI0**	300				
200x50	135x110	105x80	11x16	239	**1NNA200AFI0**	300	**1NNE200AFI0**	300	**1NNT200AFI0**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno imbullonato ad alta resistenza per assemblaggio supporto.
Frenature integrale a pedale regolabile.



High thickness, pressed steel, zinc-plated components
Hard steel double ball races.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Bolted central pin.
High-resistance, bolted central pin for assembling.
Foot lever adjustable brake.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
125x45	135x110	105x80	11x16	55	164	**1NNA125BGM0**	350	**1NNE125BGM0**	350	**1NNT125BGM0**	350
150x50	135x110	105x80	11x16	55	194	**1NNA150BGM0**	350	**1NNE150BGM0**	350	**1NNT150BGM0**	350
175x50	135x110	105x80	11x16	55	217	**1NNA1750GM0**	350			**1NNT1750GM0**	350
175x50	135x110	105x80	11x16	55	217			**1NNE175AGM0**	350		
200x50	135x110	105x80	11x16	55	239	**1NNA200AGM0**	350	**1NNE200AGM0**	350	**1NNT200AGM0**	350
250x50	135x110	105x80	11x16	55	290	**1NNA250AGM0**	350			**1NNT250AGM0**	350
250x60	200x160	160x120	14x26	90	305					**1NNT2500GM0**	550

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN	COD	daN
125x45	135x110	105x80	11x16	55	164	141	**1NNA125BGMI**	350	**1NNE125BGMI**	350	**1NNT125BGMI**	350
150x50	135x110	105x80	11x16	55	194	141	**1NNA150BGMI**	350	**1NNE150BGMI**	350	**1NNT150BGMI**	350
175x50	135x110	105x80	11x16	55	217	141	**1NNA1750GMI**	350			**1NNT1750GMI**	350
175x50	135x110	105x80	11x16	55	217	141			**1NNE175AGMI**	350		
200x50	135x110	105x80	11x16	55	239	141	**1NNA200AGMI**	350	**1NNE200AGMI**	350	**1NNT200AGMI**	350
250x50	135x110	105x80	11x16	55	290	141	**1NNA250AGMI**	350			**1NNT250AGMI**	350

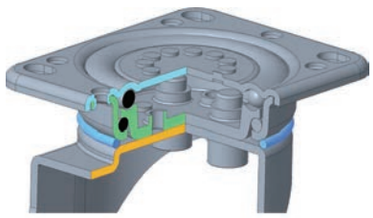
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN	COD	daN
125x45	135x110	105x80	11x16	55	164	127	**1NNA125BGMP**	350	**1NNE125BGMP**	350	**1NNT125BGMP**	350
150x50	135x110	105x80	11x16	55	194	127	**1NNA150BGMP**	350	**1NNE150BGMP**	350	**1NNT150BGMP**	350
200x50	135x110	105x80	11x16	55	239	127	**1NNA200AGMP**	350	**1NNE200AGMP**	350	**1NNT200AGMP**	350

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
125x45	135x110	105x80	11x16	164	**1NNA125BFM0**	350	**1NNE125BFM0**	350	**1NNT125BFM0**	350
150x50	135x110	105x80	11x16	194	**1NNA150BFM0**	350	**1NNE150BFM0**	350	**1NNT150BFM0**	350
175x50	135x110	105x80	11x16	217	**1NNA1750FM0**	350			**1NNT1750FM0**	350
175x50	135x110	105x80	11x16	217			**1NNE175AFM0**	350		
200x50	135x110	105x80	11x16	239	**1NNA200AFM0**	350	**1NNE200AFM0**	350	**1NNT200AFM0**	350
250x50	135x110	105x80	11x16	290	**1NNA250AFM0**	350			**1NNT250AFM0**	350
250x60	200x160	160x120	14x26	305					**1NNT2500FM0**	550

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	40	120	**1NNA0800GT0**	150				
80x35	105x85	80x60	9x16	40	120			**1NNE080AGT0**	200		
100x35	105x85	80x60	9x16	40	142	**1NNA1000GT0**	200	**1NNR1000GT0**	200		
100x40	105x85	80x60	9x16	40	140	**1NNA100AGT0**	250	**1NNE100AGT0**	250		
100x45	135x110	105x80	11x16	50	150	**1NNA100BGT0**	350	**1NNE100BGT0**	350	**1NNT100BGT0**	400
100x50	135x110	105x80	11x16	50	150					**1NNT100CGT0**	600
125x40	105x85	80x60	9x16	45	165	**1NNA1250GT0**	300	**1NNR1250GT0**	300		
125x45	135x110	105x80	11x16	50	180	**1NNA125BGT0**	500	**1NNE125BGT0**	500	**1NNT125BGT0**	700
125x50	135x110	105x80	11x16	50	180					**1NNT125CGT0**	750
150x40	105x85	80x60	9x16	45	190	**1NNA1500GT0**	350	**1NNR1500GT0**	350		
150x40	135x110	105x80	11x16	50	207	**1NNA150AGT0**	400				
150x50	135x110	105x80	11x16	50	207	**1NNA150BGT0**	700	**1NNE150BGT0**	500	**1NNT150BGT0**	700
150x50	135x110	105x80	11x16	50	207					**1NNT150CGT0**	750
175x50	135x110	105x80	11x16	50	230	**1NNA1750GT0**	600			**1NNT1750GT0**	700
175x50	135x110	105x80	11x16	50	230			**1NNE175AGT0**	600		
200x50	135x110	105x80	11x16	55	252	**1NNA2000GT0**	500				
200x50	135x110	105x80	11x16	55	252	**1NNA200AGT0**	750	**1NNE200AGT0**	750	**1NNT200AGT0**	750

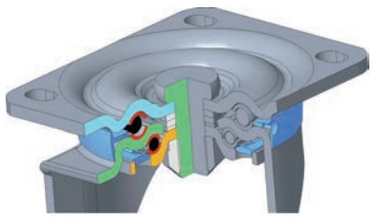
girevole piastra freno pedale anteriore / *swivel castor for directional lock*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	40	120	120	**1NNA0800GTD**	150				
80x35	105x85	80x60	9x16	40	120	120			**1NNE080AGTD**	200		
100x35	105x85	80x60	9x16	40	142	120	**1NNA1000GTD**	200	**1NNR1000GTD**	200		
100x40	105x85	80x60	9x16	40	140	120	**1NNA100AGTD**	250	**1NNE100AGTD**	250		
100x45	135x110	105x80	11x16	50	150	146	**1NNA100BGTD**	350	**1NNE100BGTD**	350	**1NNT100BGTD**	400
100x50	135x110	105x80	11x16	50	150	146					**1NNT100CGTD**	600
125x40	105x85	80x60	9x16	45	165	120	**1NNA1250GTD**	300	**1NNR1250GTD**	300		
125x45	135x110	105x80	11x16	50	180	146	**1NNA125BGTD**	500	**1NNE125BGTD**	500	**1NNT125BGTD**	700
125x50	135x110	105x80	11x16	50	180	146					**1NNT125CGTD**	750
150x40	105x85	80x60	9x16	45	190	120	**1NNA1500GTD**	350	**1NNR1500GTD**	350		
150x40	135x110	105x80	11x16	50	207	146	**1NNA150AGTD**	400				
150x50	135x110	105x80	11x16	50	207	146	**1NNA150BGTD**	700	**1NNE150BGTD**	500	**1NNT150BGTD**	700
150x50	135x110	105x80	11x16	50	207	146					**1NNT150CGTD**	750
175x50	135x110	105x80	11x16	50	230	146	**1NNA1750GTD**	600			**1NNT1750GTD**	700
175x50	135x110	105x80	11x16	50	230	146			**1NNE175AGTD**	600		
200x50	135x110	105x80	11x16	55	252	146	**1NNA2000GTD**	500				
200x50	135x110	105x80	11x16	55	252	146	**1NNA200AGTD**	750	**1NNE200AGTD**	750	**1NNT200AGTD**	750

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	120	**1NNA0800FT0**	150				
80x35	105x85	80x60	9x16	120			**1NNE080AFT0**	200		
100x35	105x85	80x60	9x16	142	**1NNA1000FT0**	200	**1NNR1000FT0**	200		
100x40	105x85	80x60	9x16	140	**1NNA100AFT0**	250	**1NNE100AFT0**	250		
100x45	135x110	105x80	11x16	150	**1NNA100BFT0**	350	**1NNE100BFT0**	350	**1NNT100BFT0**	400
100x50	135x110	105x80	11x16	150					**1NNT100CFT0**	600
125x40	105x85	80x60	9x16	165	**1NNA1250FT0**	300	**1NNR1250FT0**	300		
125x45	135x110	105x80	11x16	180	**1NNA125BFT0**	500	**1NNE125BFT0**	500	**1NNT125BFT0**	700
125x50	135x110	105x80	11x16	180					**1NNT125CFT0**	750
150x40	105x85	80x60	9x16	190	**1NNA1500FT0**	350	**1NNR1500FT0**	350		
150x40	135x110	105x80	11x16	207	**1NNA150AFT0**	400				
150x50	135x110	105x80	11x16	207	**1NNA150BFT0**	700	**1NNE150BFT0**	500	**1NNT150BFT0**	700
150x50	135x110	105x80	11x16	207					**1NNT150CFT0**	750
175x50	135x110	105x80	11x16	230	**1NNA1750FT0**	600			**1NNT1750FT0**	700
175x50	135x110	105x80	11x16	230			**1NNE175AFT0**	600		
200x50	135x110	105x80	11x16	252	**1NNA2000FT0**	500				
200x50	135x110	105x80	11x16	252	**1NNA200AFT0**	750	**1NNE200AFT0**	750	**1NNT200AFT0**	750

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
100x45	135x110	105x80	11x16	53	150	**1NNA100BGH0**	350	**1NNE100BGH0**	350	**1NNT100BGH0**	400
100x50	135x110	105x80	11x16	53	150					**1NNT100CGH0**	600
125x45	135x110	105x80	11x16	53	175	**1NNA125BGH0**	500	**1NNE125BGH0**	500	**1NNT125BGH0**	700
125x50	135x110	105x80	11x16	53	175					**1NNT125CGH0**	900
150x40	135x110	105x80	11x16	55	202	**1NNA150AGH0**	400				
150x50	135x110	105x80	11x16	55	202	**1NNA150BGH0**	700	**1NNE150BGH0**	500	**1NNT150BGH0**	900
150x50	135x110	105x80	11x16	55	202					**1NNT150CGH0**	1000
175x50	135x110	105x80	11x16	60	240	**1NNA1750GH0**	600				
175x50	135x110	105x80	11x16	60	240			**1NNE175AGH0**	600		
200x50	135x110	105x80	11x16	60	252	**1NNA2000GH0**	500				
200x50	135x110	105x80	11x16	60	252	**1NNA200AGH0**	800	**1NNE200AGH0**	800	**1NNT200AGH0**	1000
250x50	135x110	105x80	11x16	65	300	**1NNA250AGH0**	1000			**1NNT250AGH0**	1000

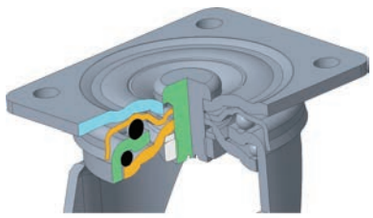
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN	COD	daN
125x45	135x110	105x80	11x16	53	175	118	**1NNA125BGHR**	500	**1NNE125BGHR**	500	**1NNT125BGHR**	700
125x50	135x110	105x80	11x16	53	175	118					**1NNT125CGHR**	900
150x40	135x110	105x80	11x16	55	202	118	**1NNA150AGHR**	400				
150x50	135x110	105x80	11x16	55	202	118	**1NNA150BGHR**	700	**1NNE150BGHR**	500	**1NNT150BGHR**	900
150x50	135x110	105x80	11x16	55	202	118					**1NNT150CGHR**	1000
175x50	135x110	105x80	11x16	60	240	118	**1NNA1750GHR**	600				
175x50	135x110	105x80	11x16	60	240	118			**1NNE175AGHR**	600		
200x50	135x110	105x80	11x16	60	252	118	**1NNA2000GHR**	500				
200x50	135x110	105x80	11x16	60	252	118	**1NNA200AGHR**	800	**1NNE200AGHR**	800	**1NNT200AGHR**	1000
250x50	135x110	105x80	11x16	65	300	118	**1NNA250AGHR**	1000			**1NNT250AGHR**	1000

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
100x45	135x110	105x80	11x16	150	**1NNA100BFH0**	350	**1NNE100BFH0**	350	**1NNT100BFH0**	400
100x50	135x110	105x80	11x16	150					**1NNT100CFH0**	600
125x45	135x110	105x80	11x16	175	**1NNA125BFH0**	500	**1NNE125BFH0**	500	**1NNT125BFH0**	700
125x50	135x110	105x80	11x16	175					**1NNT125CFH0**	900
150x40	135x110	105x80	11x16	202	**1NNA150AFH0**	400				
150x50	135x110	105x80	11x16	202	**1NNA150BFH0**	700	**1NNE150BFH0**	500	**1NNT150BFH0**	900
150x50	135x110	105x80	11x16	202					**1NNT150CFH0**	1000
175x50	135x110	105x80	11x16	240	**1NNA1750FH0**	600				
175x50	135x110	105x80	11x16	240			**1NNE175AFH0**	600		
200x50	135x110	105x80	11x16	252	**1NNA2000FH0**	500				
200x50	135x110	105x80	11x16	252	**1NNA200AFH0**	800	**1NNE200AFH0**	800	**1NNT200AFH0**	1000
250x50	135x110	105x80	11x16	300	**1NNA250AFH0**	1000			**1NNT250AFH0**	1000

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato.
Perno imbullonato alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.
Alta capacità di carico.



High thickness, pressed steel, zinc-plated components.
Double ball races with pressed and calibrated steel balls.
High-resistance, bolted central pin for assembling.
Rear foot lever total brake.High load capacity.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
125x45	140x110	105x80	12,5	46	179	**1NNE125BGP0**	500	**1NNT125BGP0**	700
125x50	140x110	105x80	12,5	46	179			**1NNT125CGP0**	900
150x50	140x110	105x80	12,5	52	207	**1NNE150BGP0**	500	**1NNT150BGP0**	900
150x50	140x110	105x80	12,5	52	207			**1NNT150CGP0**	1000
175x50	140x110	105x80	12,5	58	240			**1NNT1750GP0**	700
175x50	140x110	105x80	12,5	58	240	**1NNE175AGP0**	600		
200x50	140x110	105x80	12,5	58	253	**1NNE200AGP0**	800	**1NNT200AGP0**	1000
250x50	200x160	160x120	14	85	325			**1NNT250AGP0**	1000

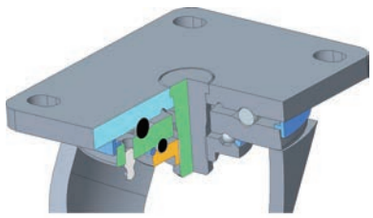
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN
125x45	140x110	105x80	12,5	46	179	127	**1NNE125BGPN**	500	**1NNT125BGPN**	700
125x50	140x110	105x80	12,5	46	179	127			**1NNT125CGPN**	900
150x50	140x110	105x80	12,5	52	207	127	**1NNE150BGPN**	500	**1NNT150BGPN**	900
150x50	140x110	105x80	12,5	52	207	127			**1NNT150CGPN**	1000
175x50	140x110	105x80	12,5	58	240	127			**1NNT1750GPN**	700
175x50	140x110	105x80	12,5	58	240	127	**1NNE175AGPN**	600		
200x50	140x110	105x80	12,5	58	253	127	**1NNE200AGPN**	800	**1NNT200AGPN**	1000
250x50	200x160	160x120	14	85	325	127			**1NNT250AGPN**	1000

fisso piastra / *fixed castor*

					COD	daN	COD	daN
125x45	135x110	105x80	11x16	179	**1NNE125BFP0**	500	**1NNT125BFP0**	700
125x50	135x110	105x80	11x16	179			**1NNT125CFP0**	750
150x50	135x110	105x80	11x16	207	**1NNE150BFP0**	500	**1NNT150BFP0**	750
150x50	135x110	105x80	11x16	207			**1NNT150CFP0**	750
175x50	135x110	105x80	11x16	240			**1NNT1750FP0**	700
175x50	135x110	105x80	11x16	240	**1NNE175AFP0**	600		
200x50	135x110	105x80	11x16	253	**1NNE200AFP0**	750	**1NNT200AFP0**	750
250x50	200x160	160x120	14x14	325			**1NNT250AFP0**	1000

Componenti in acciaio elettrosaldato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona sfere acciaio.
Piste rotazione sfere calibrate lubrificate con ingrassatore.
Anelli protezione antipolvere su entrambi giri sfere.
Perno imbullonato in acciaio ad alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.



High thickness elettrically welded steel,zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Two seals for dust protection.High-resistance bolted pin for housing's assembling.
Rear foot lever total brake.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	41	135	**1NNA0800GV0**	150				
80x35	105x85	80x60	9x16	41	135			**1NNE080AGV0**	200		
100x35	105x85	80x60	9x16	41	145	**1NNA1000GV0**	200	**1NNR1000GV0**	200		
100x40	105x85	80x60	9x16	41	145	**1NNA100AGV0**	250	**1NNE100AGV0**	250		
100x45	135x110	105x80	11x16	35	140	**1NNA100BGV0**	350	**1NNE100BGV0**	350	**1NNT100BGV0**	400
100x50	135x110	105x80	11x16	35	140					**1NNT100CGV0**	600
125x40	105x85	80x60	9x16	45	175	**1NNA1250GV0**	300	**1NNR1250GV0**	300		
125x45	135x110	105x80	11x16	50	170	**1NNA125BGV0**	500	**1NNE125BGV0**	500	**1NNT125BGV0**	700
125x50	135x110	105x80	11x16	50	170					**1NNT125CGV0**	900
150x40	135x110	105x80	11x16	55	200	**1NNA150AGV0**	400				
150x50	135x110	105x80	11x16	55	200	**1NNA150BGV0**	700	**1NNE150BGV0**	500	**1NNT150BGV0**	900
150x50	135x110	105x80	11x16	55	200					**1NNT150CGV0**	1100
175x50	135x110	105x80	11x16	60	233	**1NNA1750GV0**	600			**1NNT1750GV0**	700
175x50	135x110	105x80	11x16	60	233			**1NNE175AGV0**	600		
200x50	135x110	105x80	11x16	60	245	**1NNA2000GV0**	500				
200x50	135x110	105x80	11x16	60	245	**1NNA200AGV0**	800	**1NNE200AGV0**	800	**1NNT200AGV0**	1000

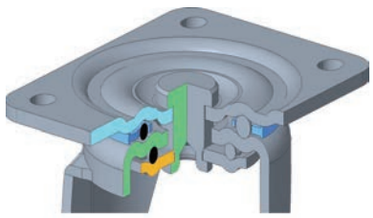
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	41	135	124	**1NNA0800GVN**	150				
80x35	105x85	80x60	9x16	41	135	124			**1NNE080AGVN**	200		
100x35	105x85	80x60	9x16	41	145	124	**1NNA1000GVN**	200	**1NNR1000GVN**	200		
100x40	105x85	80x60	9x16	41	145	124	**1NNA100AGVN**	250	**1NNE100AGVN**	250		
100x45	135x110	105x80	11x16	35	140	130	**1NNA100BGVN**	350	**1NNE100BGVN**	350	**1NNT100BGVN**	400
100x50	135x110	105x80	11x16	35	140	130					**1NNT100CGVN**	600
125x40	105x85	80x60	9x16	45	175	126	**1NNA1250GVN**	300	**1NNR1250GVN**	300		
125x45	135x110	105x80	11x16	50	170	126	**1NNA125BGVN**	500	**1NNE125BGVN**	500	**1NNT125BGVN**	700
125x50	135x110	105x80	11x16	50	170	126					**1NNT125CGVN**	900
150x40	135x110	105x80	11x16	55	200	130	**1NNA150AGVN**	400				
150x50	135x110	105x80	11x16	55	200	130	**1NNA150BGVN**	700	**1NNE150BGVN**	500	**1NNT150BGVN**	900
150x50	135x110	105x80	11x16	55	200	130					**1NNT150CGVN**	1100
175x50	135x110	105x80	11x16	60	233	130	**1NNA1750GVN**	600			**1NNT1750GVN**	700
175x50	135x110	105x80	11x16	60	233	130			**1NNE175AGVN**	600		
200x50	135x110	105x80	11x16	60	245	130	**1NNA2000GVN**	500				
200x50	135x110	105x80	11x16	60	245	130	**1NNA200AGVN**	800	**1NNE200AGVN**	800	**1NNT200AGVN**	1000

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	135	**1NNA0800FV0**	150				
80x35	105x85	80x60	9x16	135			**1NNE080AFV0**	200		
100x35	105x85	80x60	9x16	145	**1NNA1000FV0**	200	**1NNR1000FV0**	200		
100x40	105x85	80x60	9x16	145	**1NNA100AFV0**	250	**1NNE100AFV0**	250		
100x45	135x110	105x80	11x16	140	**1NNA100BFV0**	350	**1NNE100BFV0**	350	**1NNT100BFV0**	400
100x50	135x110	105x80	11x16	140					**1NNT100CFV0**	600
125x40	105x85	80x60	9x16	175	**1NNA1250FV0**	300	**1NNR1250FV0**	300		
125x45	135x110	105x80	11x16	170	**1NNA125BFV0**	500	**1NNE125BFV0**	500	**1NNT125BFV0**	700
125x50	135x110	105x80	11x16	170					**1NNT125CFV0**	900
150x40	135x110	105x80	11x16	200	**1NNA150AFV0**	400				
150x50	135x110	105x80	11x16	200	**1NNA150BFV0**	700	**1NNE150BFV0**	500	**1NNT150BFV0**	900
150x50	135x110	105x80	11x16	200					**1NNT150CFV0**	1100
175x50	135x110	105x80	11x16	233	**1NNA1750FV0**	600			**1NNT1750FV0**	700
175x50	135x110	105x80	11x16	233			**1NNE175AFV0**	600		
200x50	135x110	105x80	11x16	245	**1NNA2000FV0**	500				
200x50	135x110	105x80	11x16	245	**1NNA200AFV0**	800	**1NNE200AFV0**	800	**1NNT200AFV0**	1000

Componenti in acciaio stampato di notevole spessore verniciati colore nero.
Carichi elevati con ingombri ridotti.
Perno rivettato ad alta resistenza per assemblaggi supporto.
Predisposizione per frenatura della sola ruota.



High thickness, pressed steel, black painted components
for high loads and with reduced sizes.
High-resistance rivetted pin for housing's assembling.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
80x35	110x85	86,5x60	8,5x8,5	22	107			**1NNE080AGG0**	200
100x40	110x85	86,5x60	8,5x8,5	22	125	**1NNA100AGG0**	250	**1NNE100AGG0**	250
125x40	110x85	86,5x60	8,5x8,5	22	152	**1NNA1250GG0**	300		

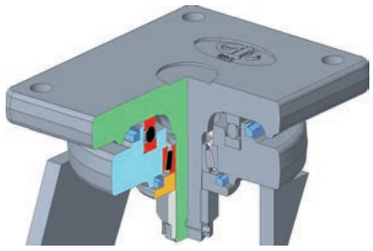
girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN
80x35	12	84	22	107			**1NNE080AQG0**	200
100x40	12	84	22	125	**1NNA100AQG0**	250	**1NNE100AQG0**	250
125x40	12	84	22	152	**1NNA1250QG0**	300		

fisso piastra / *fixed castor*

				COD	daN	COD	daN
80x35	105x64	86,5x49,5	8,5x8,5	107			**1NNE080AFG0**	200
100x40	105x64	86,5x49,5	8,5x8,5	125	**1NNA100AFG0**	250	**1NNE100AFG0**	250

Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



Forged steel elettrically welded,zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.Solid central monolithic pin for assembling.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
125x45	175x140	140x105	13,5	56	185	**1NNA125BGE0**	500	**1NNE125BGE0**	500	**1NNT125BGE0**	700
125x50	175x140	140x105	13,5	56	185					**1NNT125CGE0**	900
150x40	175x140	140x105	13,5	67	210	**1NNA150AGE0**	400				
150x50	175x140	140x105	13,5	67	210	**1NNA150BGE0**	700	**1NNE150BGE0**	500	**1NNT150BGE0**	900
150x50	175x140	140x105	13,5	67	210					**1NNT150CGE0**	1100
175x50	175x140	140x105	13,5	78	240	**1NNA1750GE0**	600			**1NNT1750GE0**	700
175x50	175x140	140x105	13,5	78	240			**1NNE175AGE0**	600		
200x50	175x140	140x105	13,5	78	252	**1NNA200AGE0**	800	**1NNE200AGE0**	800	**1NNT200AGE0**	1000
250x60	200x160	160x120	15,5	80	355					**1NNT2500GE0**	1300

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
125x45	175x140	140x105	13,5	185	**1NNA125BFE0**	500	**1NNE125BFE0**	500	**1NNT125BFE0**	700
125x50	175x140	140x105	13,5	185					**1NNT125CFE0**	900
150x40	175x140	140x105	13,5	210	**1NNA150AFE0**	400				
150x50	175x140	140x105	13,5	210	**1NNA150BFE0**	700	**1NNE150BFE0**	500	**1NNT150BFE0**	900
150x50	175x140	140x105	13,5	210					**1NNT150CFE0**	1100
175x50	175x140	140x105	13,5	240	**1NNA1750FE0**	600			**1NNT1750FE0**	700
175x50	175x140	140x105	13,5	240			**1NNE175AFE0**	600		
200x50	175x140	140x105	13,5	252	**1NNA200AFE0**	800	**1NNE200AFE0**	800	**1NNT200AFE0**	1000
250x60	200x160	160x120	15,5	355					**1NNT2500FE0**	1300

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO FRENO PEDALE ANTERIORE O POSTERIORE
DIAMETRO RUOTA: 100B-200, PORTATA: 300KG, PIASTRA: 135X110

SERIES: R ZINC PLATED SWIVEL CASTOR FRONT OR REAR FOOT LEVER BRAKE
WHEEL DIAMETER: 100B-200, LOAD CAPACITY: 300KG, PLATE SIZE: 135X110

Dati tecnici/technical data pag.: 6 of class S

SERIE: G SUPPORTO HEAVY DUTY CON FRENO RUOTA
DIAMETRO RUOTA 80-125, PORTATA: 200-300KG

SERIES: G HOUSING HEAVY DUTY WITH WHEEL BRAKE
DIAMETER WHEEL: 80-125, LOAD CAPACITY: 200-300KG

Dati tecnici/technical data pag.: 19-20 of class S

SERIE: E SUPPORTO EXTRA 2 WELDED HEAVY DUTY
DIAMETRO RUOTA: 125 - 250, PORTATA: 1000-2600KG, MISURA PIASTRA: 200X160

SERIES: E HOUSING EXTRA 2 WELDED HEAVY DUTY
WHEEL DIAMETER: 125 - 250, LOAD CAPACITY: 1000-2600KG, PLATE SIZE: 200X160

Dati tecnici/technical data pag.: 20 of class S

RULLI A STRUTTURA MONOLITICA IN POLIAMMIDE

POLYAMIDE ROLLERS

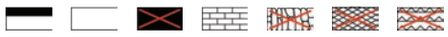
Caratteristiche Ruota

Struttura portante in poliammide 6
ad alta densità
Movimento mozzo:
doppi cuscinetti a sfera tenuta stagna.
Temperatura d'impiego da –15°C a +80°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

High density polyamide 6 roller.
Type of bearing:
double waterproof ball bearings.
Temperature range: from –15°C to +80°C.
Good resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

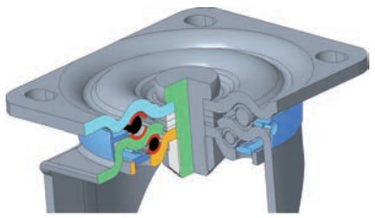


	COD			daN
44x24	**0TJT044012**	12x24	24	150
72x50	**0TJT072020**	20x50	50	400
80x70	**0TJT080A20**	20x70	70	800
80x100	**0TJT080D20**	20x100	100	1200
82x55	**0TJT082020**	20x60	49	600
82x70	**0TJT082F20**	20x70	70	650
82x80	**0TJT082A20**	20x80	80	700
82x85	**0TJT082B20**	20x85	85	750
82x90	**0TJT082C20**	20x90	90	800
82x100	**0TJT082D20**	20x100	100	900
85x70	**0TJT085A20**	20x70	70	900
85x85	**0TJT085B20**	20x85	85	1000
85x90	**0TJT085C20**	20x90	90	1200
85x100	**0TJT085D20**	20x100	100	1500

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

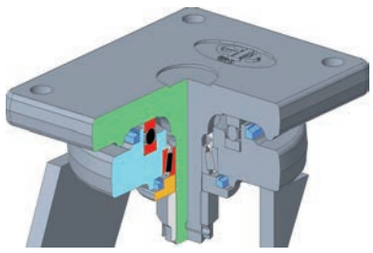
girevole piastra / *swivel castor*

						COD	daN
82x55	135x110	105x80	11x16	55	139	**1TJT0820GH0**	600

fisso piastra / *fixed castor*

					COD	daN
82x55	135x110	105x80	11x16	139	**1TJT0820FH0**	600

Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



Forged steel elettrically welded,zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.Solid central monolithic pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
80x70	175x140	140x105	13,5	45	145	**1TJT080AGE0**	800
85x70	175x140	140x105	13,5	45	148	**1TJT085AGE0**	900
85x85	175x140	140x105	13,5	45	148	**1TJT085BGE0**	1000

fisso piastra / *fixed castor*

					COD	daN
80x70	175x140	140x105	13,5	145	**1TJT080AFE0**	800
85x70	175x140	140x105	13,5	148	**1TJT085AFE0**	900
85x85	175x140	140x105	13,5	148	**1TJT085BFE0**	1000

RUOTE IN POLIAMMIDE 6 HEAVY DUTY

POLYAMIDE 6 WHEELS HEAVY DUTY

Caratteristiche Ruota

Struttura portante in poliammide 6
colato, colore naturale
elevata capacità di carico.
Movimento mozzo:
doppi cuscinetti a tenuta stagna.
Temperatura d'impiego da –30°C a +80°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

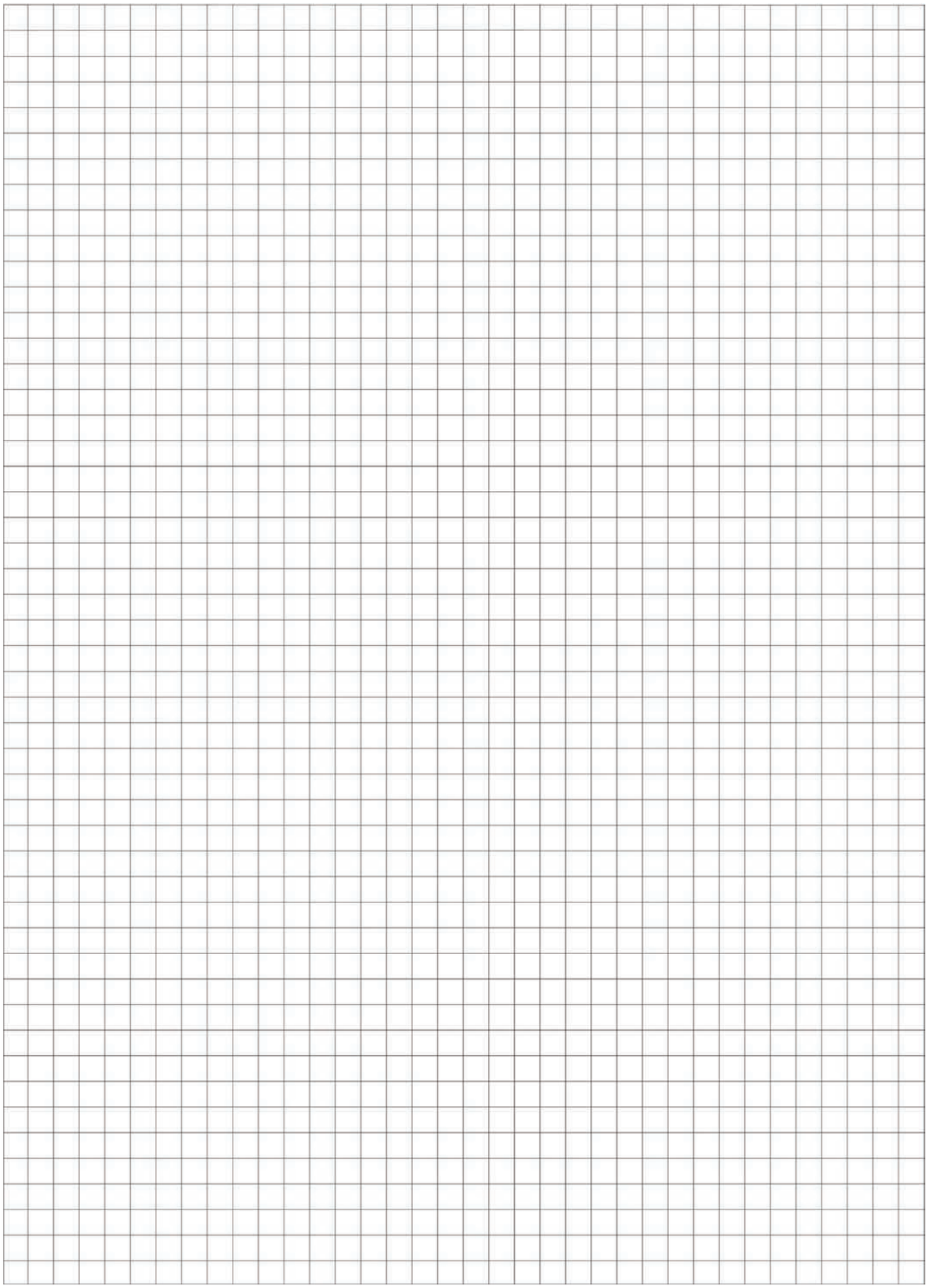
Natural cast polyamide 6 wheels
high load capacity.
Type of bearing:
double waterproof ball bearings.
Temperature range: from –30°C to +80°C.
Good resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

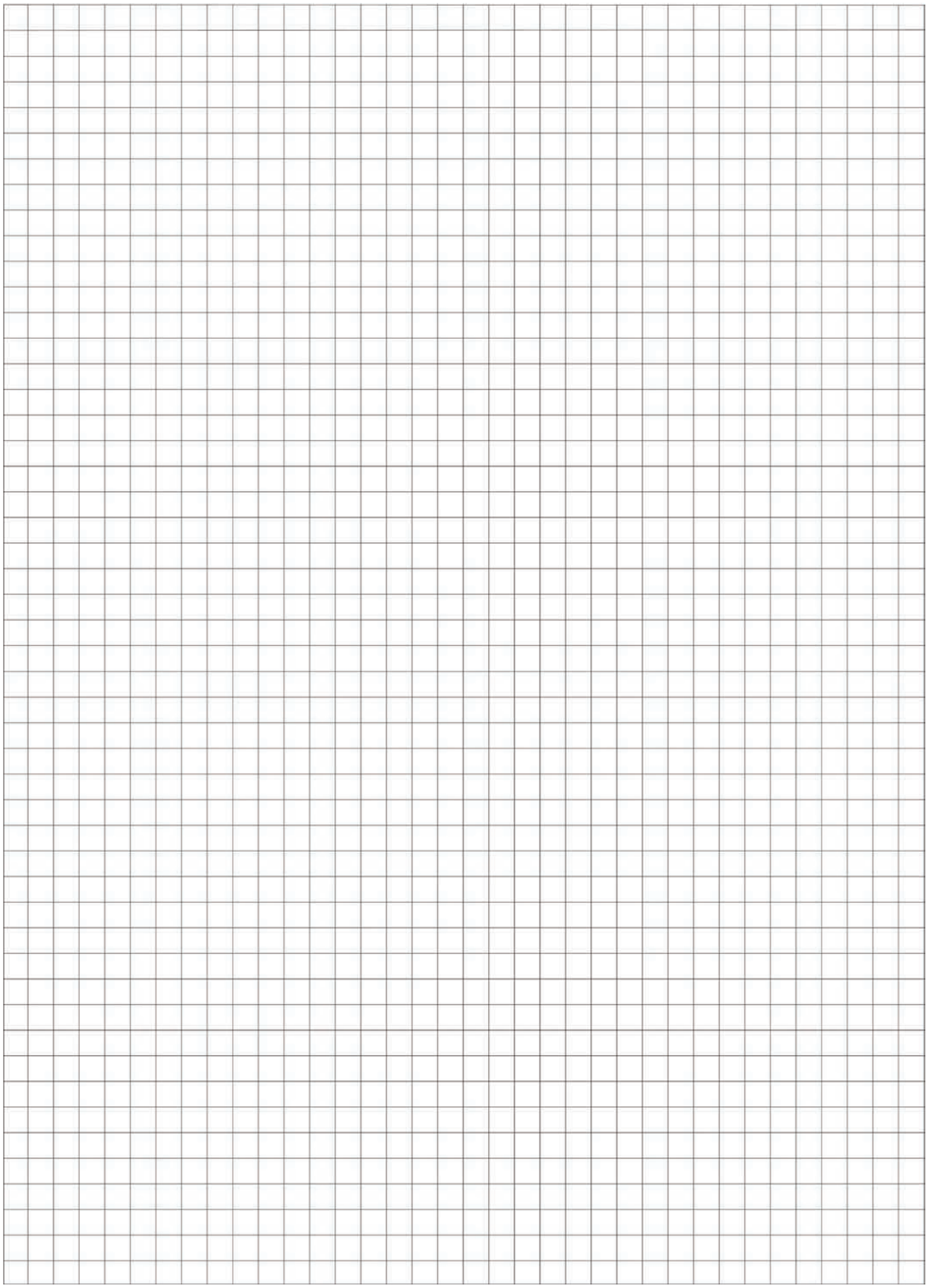
Pavimentazioni Idonee / *Floring Type*

	COD		daN
200x70	**0N5T200045**	48x80	4500
250x65	**0N5T250045**	45x70	5000
300x80	**0N5T300055**	55x90	7000
400x90	**0N5T400080**	80x100	7000

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.





CLASSE 5

ALTE TEMPERATURE

HIGH TEMPERATURE

CATALOGO *CATALOGUE* 2021

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LA SOLUZIONE OTTIMALE PER L'IMPIEGO PER ALTE TEMPERATURE

Ruote a struttura monolitica in polipropilene fibra vetro, poliammide fibra di vetro, resina fenolica, ghisa resistenti alle alte temperature. Adatte in particolare per il settore alimentare chimico e farmaceutico.

THE RIGHT SOLUTION FOR HIGH TEMPERATURE APPLICATION

Polyamide reinforced by fiberglass, phenolic resin, and cast-iron wheels for high temperature use especially in food, chemical and pharmaceutical industry.

CAMPI DI APPLICAZIONE

Buona resistenza agli aggressivi chimici e all'abrasione

Ottima igienicità e durata nel tempo.

Consigliati per mezzi a trazione manuale.

FIELDS OF APPLICATION

Good resistance to chemicals and to abrasion, this range of wheels offers high standards of hygiene and long lasting.

Recommended for hand driven trolleys.

PO

RUOTE IN TECNOPOLIMERO A BASE POLIPROPILENE
TECHNOPOLYMER WHEEL WITH POLYPROPYLENE BASE
Pag. 5

NV

RUOTE STRUTTURA MONOLITICA IN POLIAMMIDE PA6-GF30
PA6-GF30 POLYAMIDE WHEELS
Pag. 8

RT

RUOTE STRUTTURA MONOLITICA IN RESINA FENOLICA
MONOLITICH PHENOLIC WHEELS
Pag. 12

GB

RUOTE MONOLITICHE IN GHISA MECCANICA
CAST IRON WHEELS
Pag. 15

RUOTE IN TECNOPOLIMERO A BASE POLIPROPILENE

TECHNOPOLYMER WHEEL WITH POLYPROPYLENE BASE

Caratteristiche Ruota

Ruote in tecnopolimero a base polipropilene rinforzato con fibra vetro.
Movimento mozzo:
alesaggio passante.
Temperatura d'impiego da -40° a + 140°
Inerte allo stress cracking da vapore
Ottima resistenza agli agressivi chimici.
Buona resistenza all'abrasione
Buona resistenza agli urti
Ottima silenziosità confrontate con le ruote in poliammide
Velocità massima di lavoro 4 km/h
Movimentazione: manuale
Impieghi tipici: impianti di sterilizzazione con vapori saturi impianti di lavaggio, sistemi di sanificazione per l'industria alimentare, ospedaliera e ricerca scientifica (farmaceutica, chimica, cosmetica)

Wheel Features

Technopolymer wheel with polypropylene base reinforced with fiberglass.
Type of bearing:
plain bearing.
Temperature range: from -40°C to + 140°C
Inert to the cracking stress of the steam
Very good resistance to chemicals,
Good resistance to abrasion
Good resistance to shocks
Very good silence compared with the polyamide wheels
Max. working speed 4 KPH.
Operation. Manual
Typical applications: installations with saturated steam washing system, sanitizing systems for the food industry hospital and scientific research (pharmaceutical, chemicals, cosmetics)

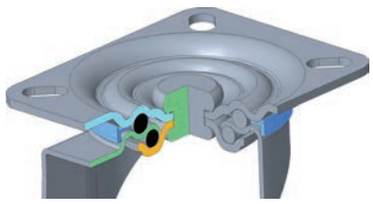
Pavimentazioni Idonee / *Floring Type*

	COD		daN
	-40° +140°		
80x30	**0POA080012**	12x40	150
100x30	**0POA100012**	12x40	200
125x40	**0POA125015**	15x46	250
150x50	**0POA150B20**	20x60	350
200x50	**0POA200020**	20x60	400

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale.
Bloccaggio direzionale agente nel senso di marcia.
Temperatura di impiego da -15°a +140°C
con grasso speciale temperatura da -40° a +140°C



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Directional lock acting in the moving direction.
Temperature range: -15°c + 140°c
Temperature range with specific grease lubricant: -40°c + 140°c

girevole piastra / *swivel castor*

						COD -15° +140°	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	**1POA0800GR0**	120		
100x30	105x85	80x60	9x16	38	128	**1POA1000GR0**	120		
125x40	105x85	80x60	9x16	45	155	**1POA1250GR0**	180		
150x50	135x110	105x80	11x16	55	194	**1POA150BGR0**	300		
200x50	135x110	105x80	11x16	55	239	**1POA2000GR0**	300		

girevole foro per vite / *bolt hole swivel castor*

					COD -15° +140°	daN	COD	daN
80x30	12	77	38	104	**1POA0800QR0**	120		
100x30	12	77	38	124	**1POA1000QR0**	120		
125x40	12	77	45	151	**1POA1250QR0**	180		
150x50	16	103	55	188	**1POA150BQR0**	300		
200x50	16	103	55	233	**1POA2000QR0**	300		

fisso piastra / *fixed castor*

					COD -15° +140°	daN	COD	daN
80x30	105x85	80x60	9x16	108	**1POA0800FI0**	120		
100x30	105x85	80x60	9x16	128	**1POA1000FI0**	120		
125x40	105x85	80x60	9x16	155	**1POA1250FI0**	120		
150x50	135x110	105x80	11x16	194	**1POA150BFI0**	300		
200x50	135x110	105x80	11x16	239	**1POA2000FI0**	300		

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE R: SUPPORTO GIREVOLE O FORO VITE ZINCATO FRENO PEDALE ANTERIORE REGOLABILE
DIAMETRO RUOTA: 080-200, PORTATA: 120-300KG, PIASTRA: 105x85 - 135X110
FORO VITE 12 - 16

SERIE R: SUPPORTO GIREVOLE O FORO VITE ZINCATO FRENO PEDALE ANTERIORE REGOLABILE
DIAMETRO RUOTA: 080-200, PORTATA: 120-300KG, PIASTRA: 105x85 - 135X110
FORO VITE 12 - 16

RUOTE STRUTTURA MONOLITICA IN POLIAMMIDE PA6-GF30

PA6-GF30 POLYAMIDE WHEELS

Caratteristiche Ruota

Struttura portante in poliammide 6 ad
alta densità rinforzato con 30% fibra vetro.
Movimento mozzo:
alesaggio passante.
doppi cuscinetti a sfera
doppi cuscinetti a sfera a tenuta stagna in acciao Inox.
Temperatura d'impiego da –15°C a +130°C.
Buona resistenza agli aggressivi chimici.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

High density polyamide 6 wheel reinforced with 30% fiberglass.
Type of bearing:
plain bearing.
double ball bearings
double stainless steel waterproof ball bearings.
Temperature range: from –15°C to +130°C.
Good resistance to chemicals.
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual

Pavimentazioni Idonee / *Floring Type*

	COD -15° +130°		daN	COD -15° +130°		daN	COD -15° +130°		d	daN
80x30	**0NVA080012**	12x40	200	**0NVC080012**	12x41	200	**0NVK080012**	12x41	29	200
100x30				**0NVC100012**	12x41	250	**0NVK100012**	12x41	29	250
100x35	**0NVA100012**	12x40	250							
125x30				**0NVC125015**	15x47	350	**0NVK125015**	15x47	30	350
125x40	**0NVA125015**	15x46	350							
150x35				**0NVC150015**	15x47	450	**0NVK150015**	15x47	30	450
150x40	**0NVA150015**	15x46	450							
200x50	**0NVA200020**	20x60	1000	**0NVC200020**	20x61	1000	**0NVK200020**	20x61	40	1000

Varianti / *Options*

Parafili in lega leggera
Light Metal thread guards

Parafili in poliammide
Polyamide thread guards

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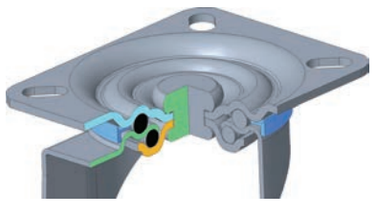
Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD -15° +130°	daN	COD -15° +130°	daN
80x30	105x85	80x60	9x16	38	108	**1NVA0800GR0**	120	**1NVK0800GR0**	120
100x30	105x85	80x60	9x16	38	128			**1NVK1000GR0**	120
100x35	105x85	80x60	9x16	38	128	**1NVA1000GR0**	120		
125x30	105x85	80x60	9x16	45	155			**1NVK1250GR0**	180
125x40	105x85	80x60	9x16	45	155	**1NVA1250GR0**	180		
150x35	105x85	80x60	9x16	45	183			**1NVK1500GR0**	180
150x40	105x85	80x60	9x16	45	183	**1NVA1500GR0**	180		
200x50	135x110	105x80	11x16	55	239	**1NVA2000GR0**	300	**1NVK2000GR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD -15° +130°	daN	COD -15° +130°	daN
80x30	105x85	80x60	9x16	38	108	120	**1NVA0800GRI**	120	**1NVK0800GRI**	120
100x30	105x85	80x60	9x16	38	128	120			**1NVK1000GRI**	120
100x35	105x85	80x60	9x16	38	128	120	**1NVA1000GRI**	120		
125x30	105x85	80x60	9x16	45	155	120			**1NVK1250GRI**	180
125x40	105x85	80x60	9x16	45	155	120	**1NVA1250GRI**	180		
150x35	105x85	80x60	9x16	45	183	120			**1NVK1500GRI**	180
150x40	105x85	80x60	9x16	45	183	120	**1NVA1500GRI**	180		
200x50	135x110	105x80	11x16	55	239	140	**1NVA2000GRI**	300	**1NVK2000GRI**	300

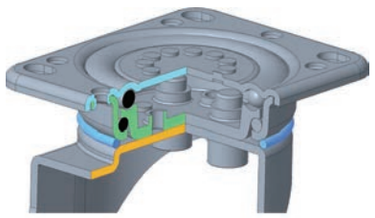
girevole foro per vite / *bolt hole swivel castor*

					COD -15° +130°	daN	COD -15° +130°	daN
80x30	12	77	38	104	**1NVA0800QR0**	120	**1NVK0800QR0**	120
100x30	12	77	38	124			**1NVK1000QR0**	120
100x35	12	77	38	124	**1NVA1000QR0**	120		
125x30	12	77	45	151			**1NVK1250QR0**	180
125x40	12	77	45	151	**1NVA1250QR0**	180		
150x35	12	77	45	179			**1NVK1500QR0**	180
150x40	12	77	45	179	**1NVA1500QR0**	180		
200x50	16	103	55	233	**1NVA2000QR0**	300	**1NVK2000QR0**	300

fisso piastra / *fixed castor*

					COD -15° +130°	daN	COD -15° +130°	daN
80x30	105x85	80x60	9x16	108	**1NVA0800FI0**	120	**1NVK0800FI0**	120
100x30	105x85	80x60	9x16	128			**1NVK1000FI0**	120
100x35	105x85	80x60	9x16	128	**1NVA1000FI0**	120		
125x30	105x85	80x60	9x16	155			**1NVK1250FI0**	120
125x40	105x85	80x60	9x16	155	**1NVA1250FI0**	120		
150x35	105x85	80x60	9x16	183			**1NVK1500FI0**	120
150x40	105x85	80x60	9x16	183	**1NVA1500FI0**	120		
200x50	135x110	105x80	11x16	239	**1NVA2000FI0**	300	**1NVK2000FI0**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD -15° +130°	daN	COD -15° +130°	daN
80x30	105x85	80x60	9x16	40	120	**1NVA0800GT0**	200	**1NVK0800GT0**	200
100x30	105x85	80x60	9x16	40	142			**1NVK1000GT0**	250
100x35	105x85	80x60	9x16	40	142	**1NVA1000GT0**	250		
125x30	105x85	80x60	9x16	45	165			**1NVK1250GT0**	350
125x40	105x85	80x60	9x16	45	165	**1NVA1250GT0**	350		
150x35	105x85	80x60	9x16	45	190			**1NVK1500GT0**	350
150x40	105x85	80x60	9x16	45	190	**1NVA1500GT0**	350		
200x50	135x110	105x80	11x16	55	252	**1NVA2000GT0**	750	**1NVK2000GT0**	750

girevole piastra freno pedale anteriore / *swivel castor for directional lock*

							COD -15° +130°	daN	COD -15° +130°	daN
80x30	105x85	80x60	9x16	40	120	120	**1NVA0800GTD**	200	**1NVK0800GTD**	200
100x30	105x85	80x60	9x16	40	142	120			**1NVK1000GTD**	250
100x35	105x85	80x60	9x16	40	142	120	**1NVA1000GTD**	250		
125x30	105x85	80x60	9x16	45	165	120			**1NVK1250GTD**	350
125x40	105x85	80x60	9x16	45	165	120	**1NVA1250GTD**	350		
150x35	105x85	80x60	9x16	45	190	120			**1NVK1500GTD**	350
150x40	105x85	80x60	9x16	45	190	120	**1NVA1500GTD**	350		
200x50	135x110	105x80	11x16	55	252	146	**1NVA2000GTD**	750	**1NVK2000GTD**	750

fisso piastra / *fixed castor*

					COD -15° +130°	daN	COD -15° +130°	daN
80x30	105x85	80x60	9x16	120	**1NVA0800FT0**	200	**1NVK0800FT0**	200
100x30	105x85	80x60	9x16	142			**1NVK1000FT0**	250
100x35	105x85	80x60	9x16	142	**1NVA1000FT0**	250		
125x30	105x85	80x60	9x16	165			**1NVK1250FT0**	350
125x40	105x85	80x60	9x16	165	**1NVA1250FT0**	350		
150x35	105x85	80x60	9x16	190			**1NVK1500FT0**	350
150x40	105x85	80x60	9x16	190	**1NVA1500FT0**	350		
200x50	135x110	105x80	11x16	252	**1NVA2000FT0**	750	**1NVK2000FT0**	750

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

RUOTE STRUTTURA MONOLITICA IN RESINA FENOLICA

MONOLITHIC PHENOLIC WHEELS

Caratteristiche Ruota

Struttura portante in resina fenolica.
Movimento mozzo:
alesaggio passante.
boccola in PTFE.
bronzina sinterizzata.
Temperatura d'impiego da –40°C a +280°C.
con punte sino a 300°C.
Ottima resistenza agli aggressivi chimici.
Assenza di esalazioni dannose per l'impiego nell'industria alimentare.
Buona resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Phenolic wheel.
Type of bearing:
plain bearing.
PTFE bushings.
syntherized bushing
Temperature range: from –40°C to +280°C.
for short times + 300°C.
Very good resistance to chemicals.
No dangerous fumes for food alimentary industry
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

	COD -40° +280°		daN	COD -40° +280°		daN	COD -40° +280°		daN
80x35	**0RTA080012**	12x39	120	**0RTB080010**	10x40	120	**0RTZ080010**	10x40	120
100x35	**0RTA100012**	12x39	150	**0RTB100010**	10x40	150	**0RTZ100010**	10x40	125
125x40	**0RTA125015**	15x45	200	**0RTB125012**	12x46	200			
150x50							**0RTZ150020**	20x59	300
200x50							**0RTZ200020**	20x59	400

Varianti / *Options*

RTK cuscinetto a sfera con tenuta labirinto
ball bearing with labyrinth seal

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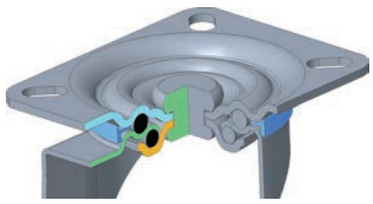
Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

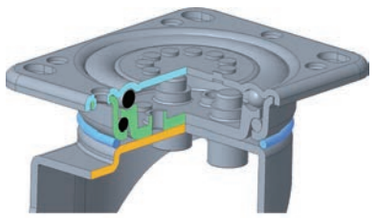
girevole piastra / *swivel castor*

						COD -40° +250°	daN	COD -40° +250°	daN
80x35	105x85	80x60	9x16	38	108	**1RTB0800GR0**	120	**1RTZ0800GR0**	120
100x35	105x85	80x60	9x16	38	128	**1RTB1000GR0**	120	**1RTZ1000GR0**	120
125x40	105x85	80x60	9x16	45	155	**1RTB1250GR0**	180		
150x50	135x110	105x80	11x16	55	194			**1RTZ1500GR0**	300
200x50	135x110	105x80	11x16	55	239			**1RTZ2000GR0**	300

fisso piastra / *fixed castor*

					COD -40° +250°	daN	COD -40° +250°	daN
80x35	105x85	80x60	9x16	108	**1RTB0800FI0**	120	**1RTZ0800FI0**	120
100x35	105x85	80x60	9x16	128	**1RTB1000FI0**	120	**1RTZ1000FI0**	120
125x40	105x85	80x60	9x16	155	**1RTB1250FI0**	120		
150x50	135x110	105x80	11x16	194			**1RTZ1500FI0**	300
200x50	135x110	105x80	11x16	239			**1RTZ2000FI0**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD -40° +250°	daN	COD -40° +250°	daN
80x35	105x85	80x60	9x16	40	120	**1RTB0800GT0**	120		
100x35	105x85	80x60	9x16	40	142	**1RTB1000GT0**	150		
125x40	105x85	80x60	9x16	45	165	**1RTB1250GT0**	200		
150x50	135x110	105x80	11x16	50	207			**1RTZ1500GT0**	300
200x50	135x110	105x80	11x16	55	252			**1RTZ2000GT0**	400

fisso piastra / *fixed castor*

					COD -40° +250°	daN	COD -40° +250°	daN
80x35	105x85	80x60	9x16	120	**1RTB0800FT0**	120		
100x35	105x85	80x60	9x16	142	**1RTB1000FT0**	150		
125x40	105x85	80x60	9x16	165	**1RTB1250FT0**	200		
150x50	135x110	105x80	11x16	207			**1RTZ1500FT0**	300
200x50	135x110	105x80	11x16	252			**1RTZ2000FT0**	400

RUOTE MONOLITICHE IN GHISA MECCANICA

CAST IRON WHEELS

Caratteristiche Ruota

Struttura portante in ghisa meccanica.
Movimento mozzo:
alesaggio passante.
doppi cuscinetti a sfera.
Temperatura d'impiego da –40°C a +300°C. **(GBA)**
Temperatura d'impiego da –40°C a +130°/250°C.**(GBK)**
Ottima resistenza agli aggressivi chimici.
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato:
manuale/meccanico
Nota:
temperatura d'impiego ruota più supporto vedi simbologia indicata su ogni serie

Wheel Features

Cast iron wheel.
Type of bearing:
plain bearing.
double ball bearings.
*Temp.range: from –40°C to +300°C.***(GBA)**
*Temp.range: from –40°C to +130/250°C.***(GBK)**
Very good resistance to chemicals.
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual/mechanical.
use for each type of castors
Nota:
see showed datas about the temperature of each type of castors

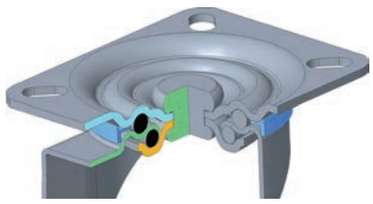
Pavimentazioni Idonee / *Floring Type*

	COD -40° +300°		daN		COD -40° +250°			daN
65x30	**0GBA065012**	12x40	300					
80x35	**0GBA080012**	12x40	400					
100x30	**0GBA100012**	12x40	500		**0GBK100012B**	12x41	29	500
125x30	**0GBA125015**	15x46	700		**0GBK125015B**	15x47	30	700

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

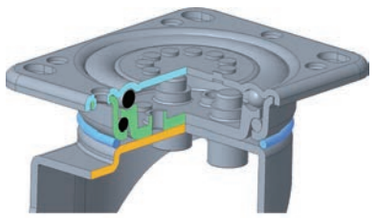
girevole piastra / *swivel castor*

						COD -40° +250°	daN	COD -40° +250°	daN
65x30	105x85	80x60	9x16	38	100	**1GBA0650GR0B**	120		
80x35	105x85	80x60	9x16	38	108	**1GBA0800GR0B**	120		
100x30	105x85	80x60	9x16	38	128	**1GBA1000GR0B**	120	**1GBK1000GR0B**	120
125x30	105x85	80x60	9x16	45	155	**1GBA1250GR0B**	180	**1GBK1250GR0B**	180

fisso piastra / *fixed castor*

					COD -40° +250°	daN	COD -40° +250°	daN
65x30	105x85	80x60	9x16	100	**1GBA0650FI0**	120		
80x35	105x85	80x60	9x16	108	**1GBA0800FI0**	120		
100x30	105x85	80x60	9x16	128	**1GBA1000FI0**	120	**1GBK1000FI0**	120
125x30	105x85	80x60	9x16	155	**1GBA1250FI0**	120	**1GBK1250FI0**	120

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



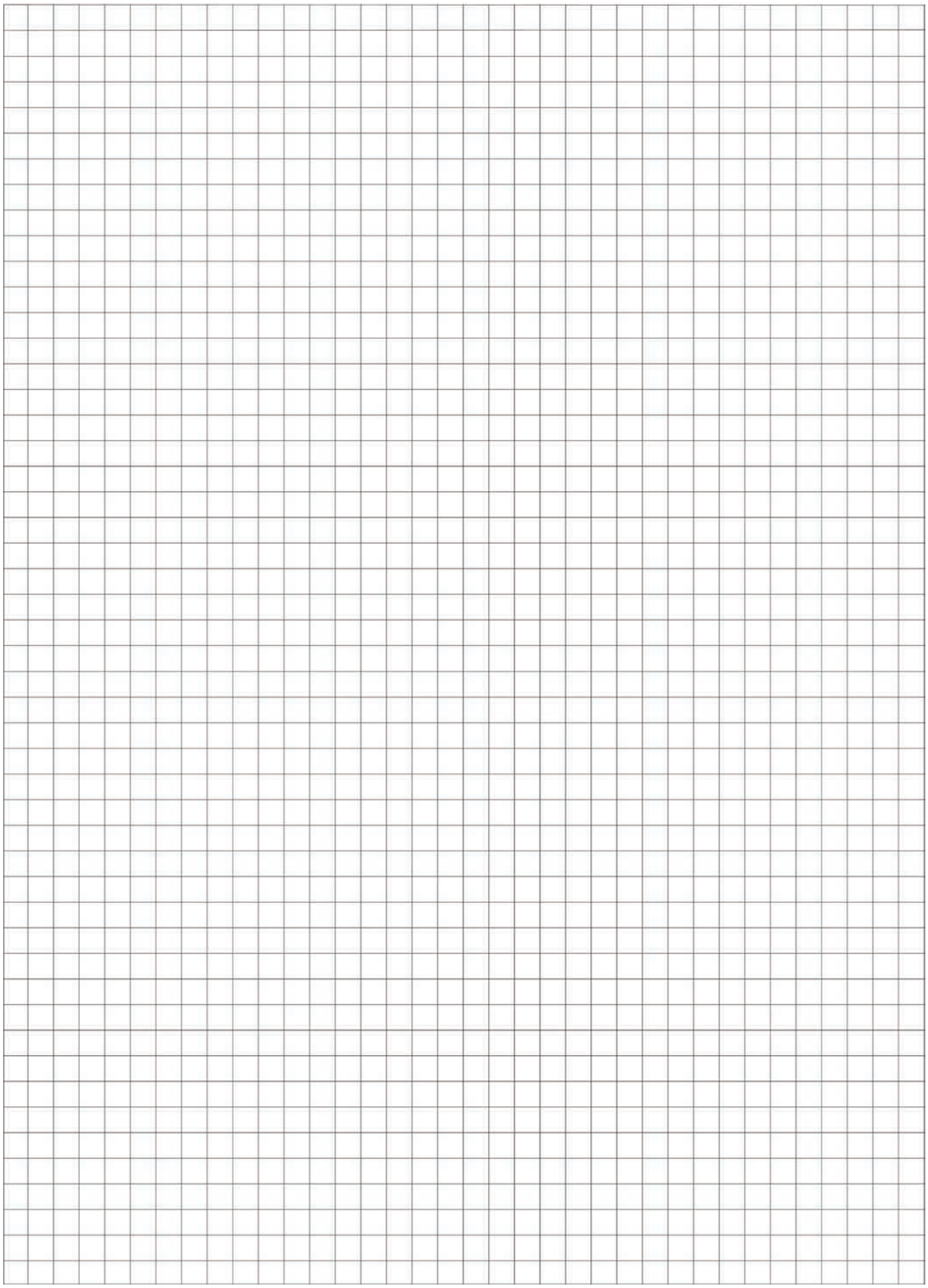
High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD -40° +250°	daN	COD -40° +250°	daN
80x35	105x85	80x60	9x16	40	120	**1GBA0800GT0B**	250		
100x30	105x85	80x60	9x16	40	142	**1GBA1000GT0B**	250	**1GBK1000GT0B**	250
125x30	105x85	80x60	9x16	45	165	**1GBA1250GT0B**	350	**1GBK1250GT0B**	350

fisso piastra / *fixed castor*

					COD -40° +250°	daN	COD -40° +250°	daN
80x35	105x85	80x60	9x16	120	**1GBA0800FT0B**	250		
100x30	105x85	80x60	9x16	142	**1GBA1000FT0B**	250	**1GBK1000FT0B**	250
125x30	105x85	80x60	9x16	165	**1GBA1250FT0B**	350	**1GBK1250FT0B**	350



CLASSE 6

POLIURETANO

POLYURETHANE

CATALOGO *CATALOGUE* 2021

.

LE MIGLIORI PRESTAZIONI CON CARICHI ELEVATI

Ruote nucleo poliammide, alluminio pressofuso o ghisa meccanica rivestite in poliuretano.

HIGH LOAD CAPACITY

Polyamide, aluminium or special cast-iron wheels with polyurethane tread.

CAMPI DI APPLICAZIONE

Ruote idonee ad una vasta gamma di applicazione in particolare dove si rende necessario un buon compromesso tra capacità di carico, comfort di marcia e resistenza all'abrasione.

Buona resistenza agli aggressivi chimici e all'abrasione

Ottima igienicità e durata nel tempo.

Consigliati per mezzi a trazione manuale.

FIELDS OF APPLICATION

Widely applied were is required the best compromise between comfort, load capacity and resistance to abrasion.

This range has also good resistance to chemicals and offer high hygiene and long lasting performances.

Recommended for hand driven trolleys.

NP

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO AD INIEZIONE
POLYAMIDE CENTRE WHEELS WITH INJECTED POLYURETHANE TREAD
Pag. 5

ND

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO AD INIEZIONE
POLYAMIDE CENTRE WHEELS WITH INJECTED POLYURETHANE TREAD
Pag. 11

DK

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO
POLYAMIDE CENTRE WHEELS WITH POLYURETHANE TREAD
Pag. 21

ZP

RUOTE ALLUMINIO PRESSOFUSO RIVESTIMENTO IN POLIURETANO
DIE-CAST ALUMINIUN CENTRE WHEELS WITH POLYURETHANE TREAD
Pag. 26

RW

RUOTE IN GHISA MECCANICA RIVESTIMENTO IN POLIURETANO
CAST IRON WHEELS WITH CAST POLYURETHANE TREAD
Pag. 37

TW

RULLI IN ACCIAIO RIVESTIMENTO IN POLIURETANO
STEEL ROLLERS WITH POLYURETHANE TREAD
Pag. 51

AT

RUOTE POLIURETANO ALTE PORTATE
HEAVY LOADS POLYURETHANE WHEELS
Pag. 55

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO AD INIEZIONE

POLYAMIDE CENTRE WHEELS WITH INJECTED POLYURETHANE TREAD

Caratteristiche Ruota

Rivestimento in poliuretano ad iniezione colore rosso.
Struttura portante poliammide 6 colore neutro
Movimento mozzo:
alesaggio passante
gabbia a rulli inox
gabbia a rulli con pista di scorrimento in acciao inox
Temperatura d'impiego da –15°C a +60°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 92/98 Sh.A
Buona resistenza all'abrasione
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale

Wheel Features

Red injected polyurethane tread.
White high density polyamide 6 centre wheel.
Type of bearing:
plain bearing
stainless steel roller bearing
stainless steel roller bearing with stainless steel tube.
Temperature range: from –15°C to +60°C.
Good resistance to chemicals.
Tread hardness 92/98 Sh.A
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

	COD		daN	COD		daN	COD		daN
80x30	**0NPA080012**	12x40	125	**0NPR080012**	12x40	125			
100x30	**0NPA100012**	12x40	150	**0NPR100012**	12x40	150			
100x40							**0NPE100A15**	15x46	175
125x30	**0NPA125015**	15x46	200	**0NPR125015**	15x46	200			
125x40	**0NPA125A20**	20x60	250				**0NPE125A20**	20x60	250
150x35	**0NPA150015**	15x46	225	**0NPR150015**	15x46	225			
150x45	**0NPA150A20**	20x60	350				**0NPE150A20**	20x60	350
175x45	**0NPA175020**	20x60	400						
200x50	**0NPA200020**	20x60	550				**0NPE200020**	20x60	550
250x60	**0NPA250025**	25x75	800						

Varianti / *Options*

Parafili in lega leggera
Light Metal thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
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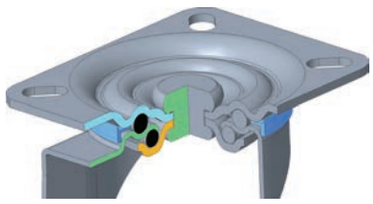
Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	**1NPA0800GR0**	120	**1NPR0800GR0**	120		
100x30	105x85	80x60	9x16	38	128	**1NPA1000GR0**	120	**1NPR1000GR0**	120		
100x40	105x85	80x60	9x16	45	128					**1NPE100AGR0**	175
125x30	105x85	80x60	9x16	45	155	**1NPA1250GR0**	180	**1NPR1250GR0**	180		
125x40	135x110	105x80	11x16	55	164	**1NPA125AGR0**	250			**1NPE125AGR0**	250
150x35	105x85	80x60	9x16	45	183	**1NPA1500GR0**	180	**1NPR1500GR0**	180		
150x45	135x110	105x80	11x16	55	194	**1NPA150AGR0**	300			**1NPE150AGR0**	300
175x45	135x110	105x80	11x16	55	217	**1NPA1750GR0**	300				
200x50	135x110	105x80	11x16	55	239	**1NPA2000GR0**	300			**1NPE2000GR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	120	**1NPA0800GRI**	120	**1NPR0800GRI**	120		
100x30	105x85	80x60	9x16	38	128	120	**1NPA1000GRI**	120	**1NPR1000GRI**	120		
100x40	105x85	80x60	9x16	45	128	120					**1NPE100AGRI**	175
125x30	105x85	80x60	9x16	45	155	120	**1NPA1250GRI**	180	**1NPR1250GRI**	180		
125x40	135x110	105x80	11x16	55	164	140	**1NPA125AGRI**	250			**1NPE125AGRI**	250
150x35	105x85	80x60	9x16	45	183	120	**1NPA1500GRI**	180	**1NPR1500GRI**	180		
150x45	135x110	105x80	11x16	55	194	140	**1NPA150AGRI**	300			**1NPE150AGRI**	300
175x45	135x110	105x80	11x16	55	217	140	**1NPA1750GRI**	300				
200x50	135x110	105x80	11x16	55	239	140	**1NPA2000GRI**	300			**1NPE2000GRI**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN	COD	daN
80x30	12	77	38	104	**1NPA0800QR0**	120	**1NPR0800QR0**	120		
100x30	12	77	38	124	**1NPA1000QR0**	120	**1NPR1000QR0**	120		
100x40	12	77	45	124					**1NPE100AQR0**	175
125x30	12	77	45	151	**1NPA1250QR0**	180	**1NPR1250QR0**	180		
125x40	16	103	55	158	**1NPA125AQR0**	250			**1NPE125AQR0**	250
150x35	12	77	45	179	**1NPA1500QR0**	180	**1NPR1500QR0**	180		
150x45	16	103	55	188	**1NPA150AQR0**	300			**1NPE150AQR0**	300
175x45	16	103	55	211	**1NPA1750QR0**	300				
200x50	16	103	55	233	**1NPA2000QR0**	300			**1NPE2000QR0**	300

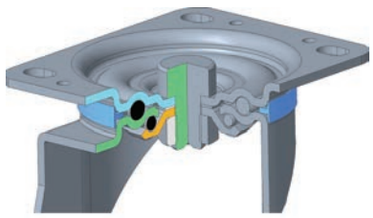
girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN	COD	daN	COD	daN
80x30	12	77	38	104	120	**1NPA0800QRI**	120	**1NPR0800QRI**	120		
100x30	12	77	38	124	120	**1NPA1000QRI**	120	**1NPR1000QRI**	120		
100x40	12	77	45	124	120					**1NPE100AQRI**	175
125x30	12	77	45	151	120	**1NPA1250QRI**	180	**1NPR1250QRI**	180		
125x40	16	103	55	158	140	**1NPA125AQRI**	250			**1NPE125AQRI**	250
150x35	12	77	45	179	120	**1NPA1500QRI**	180	**1NPR1500QRI**	180		
150x45	16	103	55	188	140	**1NPA150AQRI**	300			**1NPE150AQRI**	300
175x45	16	103	55	211	140	**1NPA1750QRI**	300				
200x50	16	103	55	233	140	**1NPA2000QRI**	300			**1NPE2000QRI**	300

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	108	**1NPA0800FI0**	120	**1NPR0800FI0**	120		
100x30	105x85	80x60	9x16	128	**1NPA1000FI0**	120	**1NPR1000FI0**	120		
100x40	105x85	80x60	9x16	128					**1NPE100AFI0**	120
125x30	105x85	80x60	9x16	155	**1NPA1250FI0**	120	**1NPR1250FI0**	120		
125x40	135x110	105x80	11x16	164	**1NPA125AFI0**	250			**1NPE125AFI0**	250
150x35	105x85	80x60	9x16	183	**1NPA1500FI0**	120	**1NPR1500FI0**	120		
150x45	135x110	105x80	11x16	194	**1NPA150AFI0**	300			**1NPE150AFI0**	300
175x45	135x110	105x80	11x16	217	**1NPA1750FI0**	300				
200x50	135x110	105x80	11x16	239	**1NPA2000FI0**	300			**1NPE2000FI0**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno imbullonato ad alta resistenza per assemblaggio supporto.
Frenature integrale a pedale regolabile.



High thickness, pressed steel, zinc-plated components
Hard steel double ball races.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Bolted central pin.
High-resistance, bolted central pin for assembling.
Foot lever adjustable brake.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
125x40	135x110	105x80	11x16	55	164	**1NPA125AGM0**	250	**1NPE125AGM0**	250
150x45	135x110	105x80	11x16	55	194	**1NPA150AGM0**	350	**1NPE150AGM0**	350
175x45	135x110	105x80	11x16	55	217	**1NPA1750GM0**	350		
200x50	135x110	105x80	11x16	55	239	**1NPA2000GM0**	350	**1NPE2000GM0**	350
250x60	200x160	160x120	14x26	90	305	**1NPA2500GM0**	550		

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN
125x40	135x110	105x80	11x16	55	164	141	**1NPA125AGMI**	250	**1NPE125AGMI**	250
150x45	135x110	105x80	11x16	55	194	141	**1NPA150AGMI**	350	**1NPE150AGMI**	350
175x45	135x110	105x80	11x16	55	217	141	**1NPA1750GMI**	350		
200x50	135x110	105x80	11x16	55	239	141	**1NPA2000GMI**	350	**1NPE2000GMI**	350

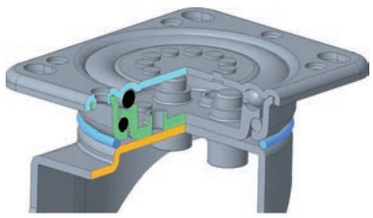
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN
125x40	135x110	105x80	11x16	55	164	127	**1NPA125AGMP**	250	**1NPE125AGMP**	250
150x45	135x110	105x80	11x16	55	194	127	**1NPA150AGMP**	350	**1NPE150AGMP**	350
175x45	135x110	105x80	11x16	55	217	127	**1NPA1750GMP**	350		
200x50	135x110	105x80	11x16	55	239	127	**1NPA2000GMP**	350	**1NPE2000GMP**	350

fisso piastra / *fixed castor*

					COD	daN	COD	daN
125x40	135x110	105x80	11x16	164	**1NPA125AFM0**	250	**1NPE125AFM0**	250
150x45	135x110	105x80	11x16	194	**1NPA150AFM0**	350	**1NPE150AFM0**	350
175x45	135x110	105x80	11x16	217	**1NPA1750FM0**	350		
200x50	135x110	105x80	11x16	239	**1NPA2000FM0**	350	**1NPE2000FM0**	350
250x60	200x160	160x120	14x26	305	**1NPA2500FM0**	550		

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	40	120	**1NPA0800GT0**	125	**1NPR0800GT0**	125		
100x30	105x85	80x60	9x16	40	142	**1NPA1000GT0**	150	**1NPR1000GT0**	150		
100x40	105x85	80x60	9x16	40	140					**1NPE100AGT0**	175
125x30	105x85	80x60	9x16	45	165	**1NPA1250GT0**	200	**1NPR1250GT0**	200		
125x40	135x110	105x80	11x16	50	180	**1NPA125AGT0**	250			**1NPE125AGT0**	250
150x35	105x85	80x60	9x16	45	190	**1NPA1500GT0**	225	**1NPR1500GT0**	225		
150x45	135x110	105x80	11x16	50	207	**1NPA150AGT0**	350			**1NPE150AGT0**	350
175x45	135x110	105x80	11x16	50	230	**1NPA1750GT0**	400				
200x50	135x110	105x80	11x16	55	252	**1NPA2000GT0**	550			**1NPE2000GT0**	550

girevole piastra freno pedale anteriore / *swivel castor for directional lock*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	40	120	120	**1NPA0800GTD**	125	**1NPR0800GTD**	125		
100x30	105x85	80x60	9x16	40	142	120	**1NPA1000GTD**	150	**1NPR1000GTD**	150		
100x40	105x85	80x60	9x16	40	140	120					**1NPE100AGTD**	175
125x30	105x85	80x60	9x16	45	165	120	**1NPA1250GTD**	200	**1NPR1250GTD**	200		
125x40	135x110	105x80	11x16	50	180	146	**1NPA125AGTD**	250			**1NPE125AGTD**	250
150x35	105x85	80x60	9x16	45	190	120	**1NPA1500GTD**	225	**1NPR1500GTD**	225		
150x45	135x110	105x80	11x16	50	207	146	**1NPA150AGTD**	350			**1NPE150AGTD**	350
175x45	135x110	105x80	11x16	50	230	146	**1NPA1750GTD**	400				
200x50	135x110	105x80	11x16	55	252	146	**1NPA2000GTD**	550			**1NPE2000GTD**	550

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	120	**1NPA0800FT0**	125	**1NPR0800FT0**	125		
100x30	105x85	80x60	9x16	142	**1NPA1000FT0**	150	**1NPR1000FT0**	150		
100x40	105x85	80x60	9x16	140					**1NPE100AFT0**	175
125x30	105x85	80x60	9x16	165	**1NPA1250FT0**	200	**1NPR1250FT0**	200		
125x40	135x110	105x80	11x16	180	**1NPA125AFT0**	250			**1NPE125AFT0**	250
150x35	105x85	80x60	9x16	190	**1NPA1500FT0**	225	**1NPR1500FT0**	225		
150x45	135x110	105x80	11x16	207	**1NPA150AFT0**	350			**1NPE150AFT0**	350
175x45	135x110	105x80	11x16	230	**1NPA1750FT0**	400				
200x50	135x110	105x80	11x16	252	**1NPA2000FT0**	550			**1NPE2000FT0**	550

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE R: SUPPORTO GIREVOLE ZINCATO FRENO PEDALE ANTERIORE O POSTERIORE
DIAMETRO RUOTA: 125A-200, PORTATA: 250-300KG, PIASTRA: 135X110

SERIES: R ZINC PLATED SWIVEL CASTOR FRONT OR REAR FOOT LEVER BRAKE
WHEEL DIAMETER: 125A-200, LOAD CAPACITY: 250-300KG, PLATE SIZE: 135X110

Dati tecnici/technical data pag.: 6 of class S

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO AD INIEZIONE

POLYAMIDE CENTRE WHEELS WITH INJECTED POLYURETHANE TREAD

Caratteristiche Ruota

Rivestimento in poliuretano ad iniezione
colore blu. **ND**
colore grigio. **NF**
Struttura portante poliammide 6
ad alta densità colore nero
Movimento mozzo:
gabbia a rulli
gabbia a rulli con pista di scorrimento in acciao.
doppi cuscinetti a sfere tenuta stagna.
Temperatura d'impiego da –15°C a +60°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 92/98 Sh.A
Buona resistenza all'abrasione
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale

Wheel Features

*Blue injected polyurethane tread.***ND**
*Grey injected polyurethane tread.***NF**
Black high density polyamide 6
centre wheel.
Type of bearing:
roller bearing
roller bearing with steel tube.
double waterproof ball bearings.
Temperature range: from –15°C to +60°C.
Good resistance to chemicals.
Tread hardness 92/98 Sh.A
Good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual

Pavimentazioni Idonee / *Floring Type*

	COD		daN	COD		daN	COD		a	daN
80x30	**0NDR080012**	12x40	125				**0NDT080012**	12x41	29	125
100x30	**0NDR100012**	12x40	150				**0NDT100012**	12x41	29	150
100x40				**0NDE100A15**	15x46	175	**0NDT100A15**	15x47	30	175
125x30	**0NDR125015**	15x46	200				**0NDT125015**	15x47	30	200
125x40				**0NDE125A20**	20x60	250	**0NDT125A20**	20x61	40	250
150x35	**0NDR150015**	15x46	225				**0NDT150015**	15x47	30	225
150x45				**0NDE150A20**	20x60	350	**0NDT150A20**	20x61	40	350
175x45				**0NDE175020**	20x60	400	**0NDT175020**	20x61	40	400
200x50				**0NDE200020**	20x60	550	**0NDT200020**	20x61	40	550
250x60							**0NDT250025**	25x76	55	800
80x30	**0NFR080012**	12x40	125				**0NFT080012**	12x41	29	125
100x30	**0NFR100012**	12x40	150				**0NFT100012**	12x41	29	150
100x40				**0NFE100A15**	15x46	175	**0NFT100A15**	15x47	30	175
125x30	**0NFR125015**	15x46	200				**0NFT125015**	15x47	30	200
125x40				**0NFE125A20**	20x60	250	**0NFT125A20**	20x61	40	250
150x35	**0NFR150015**	15x46	225				**0NFT150015**	15x47	30	225
150x45				**0NFE150A20**	20x60	350	**0NFT150A20**	20x61	40	350
175x45				**0NFE175020**	20x60	400	**0NFT175020**	20x61	40	400
200x50				**0NFE200020**	20x60	550	**0NFT200020**	20x61	40	550
250x60							**0NFT250025**	25x76	55	800

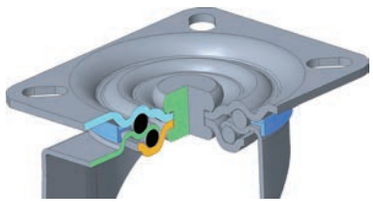
Varianti / *Options*

Parafili in lega leggera
Light Metal thread guards

Parafili in poliammide
Polyamide thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	**1NDR0800GR0**	120			**1NDT0800GR0**	120
100x30	105x85	80x60	9x16	38	128	**1NDR1000GR0**	120			**1NDT1000GR0**	120
100x40	105x85	80x60	9x16	45	128			**1NDE100AGR0**	175	**1NDT100AGR0**	175
125x30	105x85	80x60	9x16	45	155	**1NDR1250GR0**	180			**1NDT1250GR0**	180
125x40	135x110	105x80	11x16	55	164			**1NDE125AGR0**	250	**1NDT125AGR0**	250
150x35	105x85	80x60	9x16	45	183	**1NDR1500GR0**	180			**1NDT1500GR0**	180
150x45	135x110	105x80	11x16	55	194			**1NDE150AGR0**	300	**1NDT150AGR0**	300
175x45	135x110	105x80	11x16	55	217			**1NDE1750GR0**	300	**1NDT1750GR0**	300
200x50	135x110	105x80	11x16	55	239			**1NDE2000GR0**	300	**1NDT2000GR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	38	108	120	**1NDR0800GRI**	120			**1NDT0800GRI**	120
100x30	105x85	80x60	9x16	38	128	120	**1NDR1000GRI**	120			**1NDT1000GRI**	120
100x40	105x85	80x60	9x16	45	128	120			**1NDE100AGRI**	175	**1NDT100AGRI**	175
125x30	105x85	80x60	9x16	45	155	120	**1NDR1250GRI**	180			**1NDT1250GRI**	180
125x40	135x110	105x80	11x16	55	164	140			**1NDE125AGRI**	250	**1NDT125AGRI**	250
150x35	105x85	80x60	9x16	45	183	120	**1NDR1500GRI**	180			**1NDT1500GRI**	180
150x45	135x110	105x80	11x16	55	194	140			**1NDE150AGRI**	300	**1NDT150AGRI**	300
175x45	135x110	105x80	11x16	55	217	140			**1NDE1750GRI**	300	**1NDT1750GRI**	300
200x50	135x110	105x80	11x16	55	239	140			**1NDE2000GRI**	300	**1NDT2000GRI**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN	COD	daN
80x30	12	77	38	104	**1NDR0800QR0**	120			**1NDT0800QR0**	120
100x30	12	77	38	124	**1NDR1000QR0**	120			**1NDT1000QR0**	120
100x40	12	77	45	124			**1NDE100AQR0**	175	**1NDT100AQR0**	175
125x30	12	77	45	151	**1NDR1250QR0**	180			**1NDT1250QR0**	180
125x40	16	103	55	158			**1NDE125AQR0**	250	**1NDT125AQR0**	250
150x35	12	77	45	179	**1NDR1500QR0**	180			**1NDT1500QR0**	180
150x45	16	103	55	188			**1NDE150AQR0**	300	**1NDT150AQR0**	300
175x45	16	103	55	211			**1NDE1750QR0**	300	**1NDT1750QR0**	300
200x50	16	103	55	233			**1NDE2000QR0**	300	**1NDT2000QR0**	300

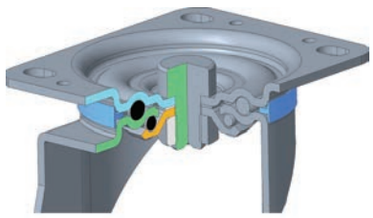
girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN	COD	daN	COD	daN
80x30	12	77	38	104	120	**1NDR0800QRI**	120			**1NDT0800QRI**	120
100x30	12	77	38	124	120	**1NDR1000QRI**	120			**1NDT1000QRI**	120
100x40	12	77	45	124	120			**1NDE100AQRI**	175	**1NDT100AQRI**	175
125x30	12	77	45	151	120	**1NDR1250QRI**	180			**1NDT1250QRI**	180
125x40	16	103	55	158	140			**1NDE125AQRI**	250	**1NDT125AQRI**	250
150x35	12	77	45	179	120	**1NDR1500QRI**	180			**1NDT1500QRI**	180
150x45	16	103	55	188	140			**1NDE150AQRI**	300	**1NDT150AQRI**	300
175x45	16	103	55	211	140			**1NDE1750QRI**	300	**1NDT1750QRI**	300
200x50	16	103	55	233	140			**1NDE2000QRI**	300	**1NDT2000QRI**	300

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	108	**1NDR0800FI0**	120			**1NDT0800FI0**	120
100x30	105x85	80x60	9x16	128	**1NDR1000FI0**	120			**1NDT1000FI0**	120
100x40	105x85	80x60	9x16	128			**1NDE100AFI0**	120	**1NDT100AFI0**	120
125x30	105x85	80x60	9x16	155	**1NDR1250FI0**	120			**1NDT1250FI0**	120
125x40	135x110	105x80	11x16	164			**1NDE125AFI0**	250	**1NDT125AFI0**	250
150x35	105x85	80x60	9x16	183	**1NDR1500FI0**	120			**1NDT1500FI0**	120
150x45	135x110	105x80	11x16	194			**1NDE150AFI0**	300	**1NDT150AFI0**	300
175x45	135x110	105x80	11x16	217			**1NDE1750FI0**	300	**1NDT1750FI0**	300
200x50	135x110	105x80	11x16	239			**1NDE2000FI0**	300	**1NDT2000FI0**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno imbullonato ad alta resistenza per assemblaggio supporto.
Frenature integrale a pedale regolabile.



High thickness, pressed steel, zinc-plated components
Hard steel double ball races.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Bolted central pin.
High-resistance, bolted central pin for assembling.
Foot lever adjustable brake.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
125x40	135x110	105x80	11x16	55	164	**1NDE125AGM0**	250	**1NDT125AGM0**	250
150x45	135x110	105x80	11x16	55	194	**1NDE150AGM0**	350	**1NDT150AGM0**	350
175x45	135x110	105x80	11x16	55	217	**1NDE1750GM0**	350	**1NDT1750GM0**	350
200x50	135x110	105x80	11x16	55	239	**1NDE2000GM0**	350	**1NDT2000GM0**	350
250x60	200x160	160x120	14x26	90	305			**1NDT2500GM0**	550

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN	COD	daN
125x40	135x110	105x80	11x16	55	164	141	**1NDE125AGMI**	250	**1NDT125AGMI**	250
150x45	135x110	105x80	11x16	55	194	141	**1NDE150AGMI**	350	**1NDT150AGMI**	350
175x45	135x110	105x80	11x16	55	217	141	**1NDE1750GMI**	350	**1NDT1750GMI**	350
200x50	135x110	105x80	11x16	55	239	141	**1NDE2000GMI**	350	**1NDT2000GMI**	350

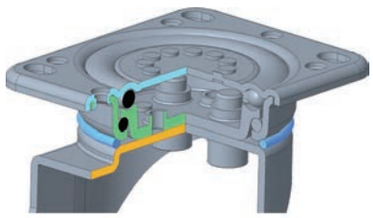
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN
125x40	135x110	105x80	11x16	55	164	127	**1NDE125AGMP**	250	**1NDT125AGMP**	250
150x45	135x110	105x80	11x16	55	194	127	**1NDE150AGMP**	350	**1NDT150AGMP**	350
175x45	135x110	105x80	11x16	55	217	127	**1NDE1750GMP**	350	**1NDT1750GMP**	350
200x50	135x110	105x80	11x16	55	239	127	**1NDE2000GMP**	350	**1NDT2000GMP**	350

fisso piastra / *fixed castor*

					COD	daN	COD	daN
125x40	135x110	105x80	11x16	164	**1NDE125AFM0**	250	**1NDT125AFM0**	250
150x45	135x110	105x80	11x16	194	**1NDE150AFM0**	350	**1NDT150AFM0**	350
175x45	135x110	105x80	11x16	217	**1NDE1750FM0**	350	**1NDT1750FM0**	350
200x50	135x110	105x80	11x16	239	**1NDE2000FM0**	350	**1NDT2000FM0**	350
250x60	200x160	160x120	14x26	305			**1NDT2500FM0**	550

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	40	120	**1NDR0800GT0**	125			**1NDT0800GT0**	125
100x30	105x85	80x60	9x16	40	142	**1NDR1000GT0**	150			**1NDT1000GT0**	150
100x40	105x85	80x60	9x16	40	140			**1NDE100AGT0**	175	**1NDT100AGT0**	175
125x30	105x85	80x60	9x16	45	165	**1NDR1250GT0**	200			**1NDT1250GT0**	200
125x40	135x110	105x80	11x16	50	180			**1NDE125AGT0**	250	**1NDT125AGT0**	250
150x35	105x85	80x60	9x16	45	190	**1NDR1500GT0**	225			**1NDT1500GT0**	225
150x45	135x110	105x80	11x16	50	207			**1NDE150AGT0**	350	**1NDT150AGT0**	350
175x45	135x110	105x80	11x16	50	230			**1NDE1750GT0**	400	**1NDT1750GT0**	400
200x50	135x110	105x80	11x16	55	252			**1NDE2000GT0**	550	**1NDT2000GT0**	550

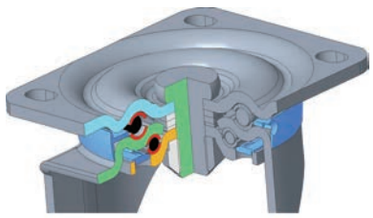
girevole piastra freno pedale anteriore / *swivel castor for directional lock*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	40	120	120	**1NDR0800GTD**	125			**1NDT0800GTD**	125
100x30	105x85	80x60	9x16	40	142	120	**1NDR1000GTD**	150			**1NDT1000GTD**	150
100x40	105x85	80x60	9x16	40	140	120			**1NDE100AGTD**	175	**1NDT100AGTD**	175
125x30	105x85	80x60	9x16	45	165	120	**1NDR1250GTD**	200			**1NDT1250GTD**	200
125x40	135x110	105x80	11x16	50	180	146			**1NDE125AGTD**	250	**1NDT125AGTD**	250
150x35	105x85	80x60	9x16	45	190	120	**1NDR1500GTD**	225			**1NDT1500GTD**	225
150x45	135x110	105x80	11x16	50	207	146			**1NDE150AGTD**	350	**1NDT150AGTD**	350
175x45	135x110	105x80	11x16	50	230	146			**1NDE1750GTD**	400	**1NDT1750GTD**	400
200x50	135x110	105x80	11x16	55	252	146			**1NDE2000GTD**	550	**1NDT2000GTD**	550

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	120	**1NDR0800FT0**	125			**1NDT0800FT0**	125
100x30	105x85	80x60	9x16	142	**1NDR1000FT0**	150			**1NDT1000FT0**	150
100x40	105x85	80x60	9x16	140			**1NDE100AFT0**	175	**1NDT100AFT0**	175
125x30	105x85	80x60	9x16	165	**1NDR1250FT0**	200			**1NDT1250FT0**	200
125x40	135x110	105x80	11x16	180			**1NDE125AFT0**	250	**1NDT125AFT0**	250
150x35	105x85	80x60	9x16	190	**1NDR1500FT0**	225			**1NDT1500FT0**	225
150x45	135x110	105x80	11x16	207			**1NDE150AFT0**	350	**1NDT150AFT0**	350
175x45	135x110	105x80	11x16	230			**1NDE1750FT0**	400	**1NDT1750FT0**	400
200x50	135x110	105x80	11x16	252			**1NDE2000FT0**	550	**1NDT2000FT0**	550

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
125x40	135x110	105x80	11x16	53	175	**1NDE125AGH0**	250	**1NDT125AGH0**	250
150x45	135x110	105x80	11x16	55	202	**1NDE150AGH0**	350	**1NDT150AGH0**	350
175x45	135x110	105x80	11x16	60	240	**1NDE1750GH0**	400	**1NDT1750GH0**	400
200x50	135x110	105x80	11x16	60	252	**1NDE2000GH0**	550	**1NDT2000GH0**	550
250x60	135x110	105x80	11x16	65	300			**1NDT2500GH0**	800

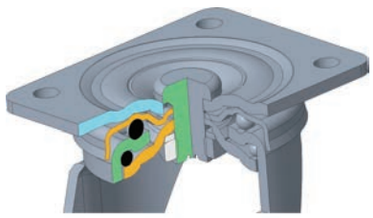
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN
125x40	135x110	105x80	11x16	53	175	118	**1NDE125AGHR**	250	**1NDT125AGHR**	250
150x45	135x110	105x80	11x16	55	202	118	**1NDE150AGHR**	350	**1NDT150AGHR**	350
175x45	135x110	105x80	11x16	60	240	118	**1NDE1750GHR**	400	**1NDT1750GHR**	400
200x50	135x110	105x80	11x16	60	252	118	**1NDE2000GHR**	550	**1NDT2000GHR**	550
250x60	135x110	105x80	11x16	65	300	118			**1NDT2500GHR**	800

fisso piastra / *fixed castor*

					COD	daN	COD	daN
125x40	135x110	105x80	11x16	175	**1NDE125AFH0**	250	**1NDT125AFH0**	250
150x45	135x110	105x80	11x16	202	**1NDE150AFH0**	350	**1NDT150AFH0**	350
175x45	135x110	105x80	11x16	240	**1NDE1750FH0**	400	**1NDT1750FH0**	400
200x50	135x110	105x80	11x16	252	**1NDE2000FH0**	550	**1NDT2000FH0**	550
250x60	135x110	105x80	11x16	300			**1NDT2500FH0**	800

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato.
Perno imbullonato alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.
Alta capacità di carico.



High thickness, pressed steel, zinc-plated components.
Double ball races with pressed and calibrated steel balls.
High-resistance, bolted central pin for assembling.
Rear foot lever total brake.High load capacity.

girevole piastra / *swivel castor*

						COD	daN	COD	daN
125x40	140x110	105x80	12,5	46	179	**1NDE125AGP0**	250	**1NDT125AGP0**	250
150x45	140x110	105x80	12,5	52	207	**1NDE150AGP0**	350	**1NDT150AGP0**	350
200x50	140x110	105x80	12,5	58	253	**1NDE2000GP0**	550	**1NDT2000GP0**	550
250x60	200x160	160x120	14	85	325			**1NDT2500GP0**	800

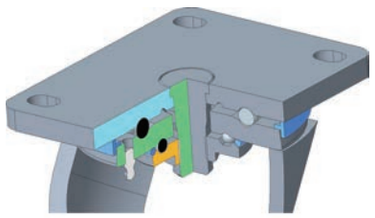
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN
125x40	140x110	105x80	12,5	46	179	127	**1NDE125AGPN**	250	**1NDT125AGPN**	250
150x45	140x110	105x80	12,5	52	207	127	**1NDE150AGPN**	350	**1NDT150AGPN**	350
200x50	140x110	105x80	12,5	58	253	127	**1NDE2000GPN**	550	**1NDT2000GPN**	550
250x60	200x160	160x120	14	85	325	127			**1NDT2500GPN**	800

fisso piastra / *fixed castor*

					COD	daN	COD	daN
125x40	135x112	105x80	11x16	179	**1NDE125AFP0**	250	**1NDT125AFP0**	250
150x45	135x112	105x80	11x16	207	**1NDE150AFP0**	350	**1NDT150AFP0**	350
200x50	135x112	105x80	11x16	253	**1NDE2000FP0**	550	**1NDT2000FP0**	550
250x60	200x160	160x120	14x14	325			**1NDT2500FP0**	800

Componenti in acciaio elettrosaldato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona sfere acciaio.
Piste rotazione sfere calibrate lubrificate con ingrassatore.
Anelli protezione antipolvere su entrambi giri sfere.
Perno imbullonato in acciaio ad alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.



High thickness elettrically welded steel,zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Two seals for dust protection.High-resistance bolted pin for housing's assembling.
Rear foot lever total brake.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	41	135	**1NDR0800GV0**	125			**1NDT0800GV0**	125
100x30	105x85	80x60	9x16	41	145	**1NDR1000GV0**	150			**1NDT1000GV0**	150
100x40	105x85	80x60	9x16	41	145			**1NDE100AGV0**	175	**1NDT100AGV0**	175
125x30	105x85	80x60	9x16	45	175	**1NDR1250GV0**	200			**1NDT1250GV0**	200
125x40	135x110	105x80	11x16	50	170			**1NDE125AGV0**	250	**1NDT125AGV0**	250
150x45	135x110	105x80	11x16	55	200			**1NDE150AGV0**	350	**1NDT150AGV0**	350
175x45	135x110	105x80	11x16	60	233			**1NDE1750GV0**	400	**1NDT1750GV0**	400
200x50	135x110	105x80	11x16	60	245			**1NDE2000GV0**	550	**1NDT2000GV0**	550
250x60	200x160	160x120	15	72	310					**1NDT2500GV0**	800

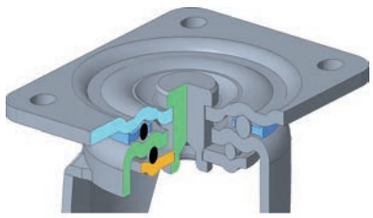
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	41	135	124	**1NDR0800GVN**	125			**1NDT0800GVN**	125
100x30	105x85	80x60	9x16	41	145	124	**1NDR1000GVN**	150			**1NDT1000GVN**	150
100x40	105x85	80x60	9x16	41	145	124			**1NDE100AGVN**	175	**1NDT100AGVN**	175
125x30	105x85	80x60	9x16	45	175	126	**1NDR1250GVN**	200			**1NDT1250GVN**	200
125x40	135x110	105x80	11x16	50	170	126			**1NDE125AGVN**	250	**1NDT125AGVN**	250
150x45	135x110	105x80	11x16	55	200	130			**1NDE150AGVN**	350	**1NDT150AGVN**	350
175x45	135x110	105x80	11x16	60	233	130			**1NDE1750GVN**	400	**1NDT1750GVN**	400
200x50	135x110	105x80	11x16	60	245	130			**1NDE2000GVN**	550	**1NDT2000GVN**	550
250x60	200x160	160x120	15	72	310	135					**1NDT2500GVN**	800

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x85	80x60	9x16	135	**1NDR0800FV0**	125			**1NDT0800FV0**	125
100x30	105x85	80x60	9x16	145	**1NDR1000FV0**	150			**1NDT1000FV0**	150
100x40	105x85	80x60	9x16	145			**1NDE100AFV0**	175	**1NDT100AFV0**	175
125x30	105x85	80x60	9x16	175	**1NDR1250FV0**	200			**1NDT1250FV0**	200
125x40	135x110	105x80	11x16	170			**1NDE125AFV0**	250	**1NDT125AFV0**	250
150x45	135x110	105x80	11x16	200			**1NDE150AFV0**	350	**1NDT150AFV0**	350
175x45	135x110	105x80	11x16	233			**1NDE1750FV0**	400	**1NDT1750FV0**	400
200x50	135x110	105x80	11x16	245			**1NDE2000FV0**	550	**1NDT2000FV0**	550
250x60	200x160	160x120	15	310					**1NDT2500FV0**	800

Componenti in acciaio stampato di notevole spessore verniciati colore nero.
Carichi elevati con ingombri ridotti.
Perno rivettato ad alta resistenza per assemblaggi supporto.
Predisposizione per frenatura della sola ruota.



High thickness, pressed steel, black painted components
for high loads and with reduced sizes.
High-resistance rivetted pin for housing's assembling.

girevole piastra / *swivel castor*

						COD	daN	COD	daN	COD	daN
80x30	110x85	86,5x60	8,5x8,5	22	107					**1NDT0800GG0**	120
100x40	110x85	86,5x60	8,5x8,5	22	125			**1NDE100AGG0**	175	**1NDT100AGG0**	175
125x30	110x85	86,5x60	8,5x8,5	22	152	**1NDR1250GG0**	200			**1NDT1250GG0**	200

girevole foro per vite / *bolt hole swivel castor*

					COD	daN	COD	daN	COD	daN
80x30	12	84	22	107					**1NDT0800QG0**	120
100x40	12	84	22	125			**1NDE100AQG0**	175	**1NDT100AQG0**	175
125x30	12	84	22	152	**1NDR1250QG0**	200			**1NDT1250QG0**	200

fisso piastra / *fixed castor*

					COD	daN	COD	daN	COD	daN
80x30	105x64	86,5x49,5	8,5x8,5	107					**1NDT0800FG0**	120
100x40	105x64	86,5x49,5	8,5x8,5	125			**1NDE100AFG0**	175	**1NDT100AFG0**	175

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE R: SUPPORTO GIREVOLE ZINCATO FRENO PEDALE ANTERIORE O POSTERIORE
DIAMETRO RUOTA: 125A-200, PORTATA: 250-300KG, PIASTRA: 135X110

SERIES: R ZINC PLATED SWIVEL CASTOR FRONT OR REAR FOOT LEVER BRAKE
WHEEL DIAMETER: 125A-200, LOAD CAPACITY: 250-300KG, PLATE SIZE: 135X110

Dati tecnici/technical data pag.: 6 of class S

SERIE: G SUPPORTO HEAVY DUTY CON FRENO RUOTA
DIAMETRO RUOTA 80-125, PORTATA: 120-200KG

SERIES: G HOUSING HEAVY DUTY WITH WHEEL BRAKE
DIAMETER WHEEL: 80-125, LOAD CAPACITY: 120-200KG

Dati tecnici/technical data pag.: 19-20 of class S

RUOTE NUCLEO POLIAMMIDE RIVESTIMENTO IN POLIURETANO

POLYAMIDE CENTRE WHEELS WITH POLYURETHANE TREAD

Caratteristiche Ruota

Rivestimento in poliuretano
Struttura portante in poliammide 6
rinforzato fibra di vetro
doppi dischi parafili
Movimento mozzo:
doppi cuscinetti a sfere tenuta stagna.
Temperatura d'impiego da –40°C a +75°C.
Ottima resistenza agli aggressivi chimici.
Durezza battistrada 95 Sh.A
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Polyurethane tread
High density polyamide 6 centre wheel
reinforced with fiberglass.
Double plastic thread guards
Type of bearing:
double waterproof ball bearings.
Temperature range: from –40°C to +75°C.
Very good resistance to chemicals.
Tread hardness 95 Sh.A.
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

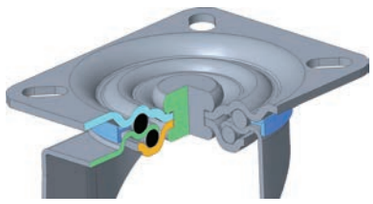
Pavimentazioni Idonee / *Floring Type*

	COD		daN
125x46	**0DKT125012**	12x63	450
160x46	**0DKT160012**	12x63	550
200x50	**0DKT200012**	12x63	800

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
125x46	135x110	105x80	11x16	55	164	**1DKT1250GR0PN**	300
160x46	135x110	105x80	11x16	55	199	**1DKT1600GR0PN**	300
200x50	135x110	105x80	11x16	55	239	**1DKT2000GR0PN**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
125x46	135x110	105x80	11x16	55	164	140	**1DKT1250GRIPN**	300
160x46	135x110	105x80	11x16	55	199	140	**1DKT1600GRIPN**	300
200x50	135x110	105x80	11x16	55	239	140	**1DKT2000GRIPN**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
125x46	16	103	55	158	**1DKT1250QR0PN**	300
160x46	16	103	55	193	**1DKT1600QR0PN**	300
200x50	16	103	55	233	**1DKT2000QR0PN**	300

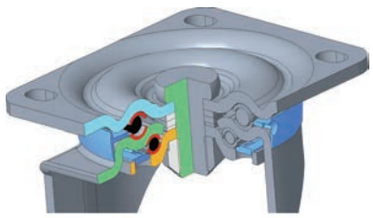
girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN
125x46	16	103	55	158	140	**1DKT1250QRIPN**	300
160x46	16	103	55	193	140	**1DKT1600QRIPN**	300
200x50	16	103	55	233	140	**1DKT2000QRIPN**	300

fisso piastra / *fixed castor*

					COD	daN
125x46	135x110	105x80	11x16	164	**1DKT1250FI0PN**	300
160x46	135x110	105x80	11x16	199	**1DKT1600FI0PN**	300
200x50	135x110	105x80	11x16	239	**1DKT2000FI0PN**	300

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
125x46	135x110	105x80	11x16	53	175	**1DKT1250GH0PN**	450
160x46	135x110	105x80	11x16	55	207	**1DKT1600GH0PN**	550
200x50	135x110	105x80	11x16	60	252	**1DKT2000GH0PN**	800

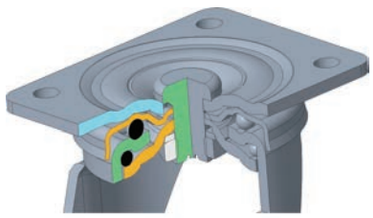
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x46	135x110	105x80	11x16	53	175	118	**1DKT1250GHRPN**	450
160x46	135x110	105x80	11x16	55	207	118	**1DKT1600GHRPN**	550
200x50	135x110	105x80	11x16	60	252	118	**1DKT2000GHRPN**	800

fisso piastra / *fixed castor*

					COD	daN
125x46	135x110	105x80	11x16	175	**1DKT1250FH0PN**	450
160x46	135x110	105x80	11x16	207	**1DKT1600FH0PN**	550
200x50	135x110	105x80	11x16	252	**1DKT2000FH0PN**	800

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato.
Perno imbullonato alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.
Alta capacità di carico.



High thickness, pressed steel, zinc-plated components.
Double ball races with pressed and calibrated steel balls.
High-resistance, bolted central pin for assembling.
Rear foot lever total brake.High load capacity.

girevole piastra / *swivel castor*

						COD	daN
125x46	140x110	105x80	12,5	46	179	**1DKT1250GP0PN**	450
160x46	140x110	105x80	12,5	52	212	**1DKT1600GP0PN**	550
200x50	140x110	105x80	12,5	58	253	**1DKT2000GP0PN**	800

girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x46	140x110	105x80	12,5	46	179	127	**1DKT1250GPNPN**	450
160x46	140x110	105x80	12,5	52	212	127	**1DKT1600GPNPN**	550
200x50	140x110	105x80	12,5	58	253	127	**1DKT2000GPNPN**	800

fisso piastra / *fixed castor*

					COD	daN
125x46	135x112	105x80	11x16	179	**1DKT1250FP0PN**	450
160x46	135x112	105x80	11x16	212	**1DKT1600FP0PN**	550
200x50	135x112	105x80	11x16	253	**1DKT2000FP0PN**	800

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 125-200, PORTATA: 300KG, MISURA PERNI: 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 125-200, LOAD CAPACITY: 300KG, STEM SIZE: 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 125-200, PORTATA: 300KG, MISURA CODOLO: M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 125-200, LOAD CAPACITY: 300KG, STEM SIZE: M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE R: SUPPORTO GIREVOLE ZINCATO FRENO PEDALE ANTERIORE O POSTERIORE
DIAMETRO RUOTA: 125-200, PORTATA: 300KG, PIASTRA: 135X110

SERIES: R ZINC PLATED SWIVEL CASTOR FRONT OR REAR FOOT LEVER BRAKE
WHEEL DIAMETER: 125-200, LOAD CAPACITY: 300KG, PLATE SIZE: 135X110

Dati tecnici/technical data pag.: 6 of class S

RUOTE IN ALLUMINIO PRESSOFUSO RIVESTIMENTO POLIURETANO

DIE-CAST ALUMINIUM CENTRE WHEELS WITH POLYURETHANE TREAD

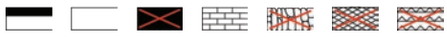
Caratteristiche Ruota

Rivestimento in poliuretano.
Struttura portante in alluminio pressofuso.
Movimento mozzo:
doppi cuscinetti a sfere tenuta stagna.
Temperatura d'impiego da –20°C a +80°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 93 Sh.A +/- 3
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Polyurethane tread.
Die-cast aluminium centre wheel.
Type of bearing:
double waterproof ball bearings.
Temperature range: from –20°C to +80°C.
Good resistance to chemicals.
Tread hardness 93 Sh.A +/- 3
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*



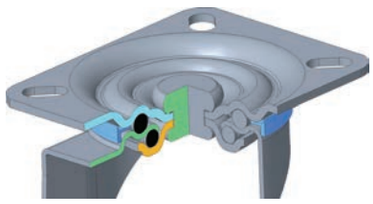
	COD			daN
80x25	**0ZPT080012**	12x30	30	200
100x30	**0ZPT100012**	12x41	29	200
100x40	**0ZPT100A15**	15x47	30	250
100x50	**0ZPT100C20**	20x61	50	300
125x30	**0ZPT125015**	15x47	30	250
125x50	**0ZPT125C20**	20x61	50	350
150x40	**0ZPT150020**	20x61	50	400
160x50	**0ZPT160020**	20x61	50	600
200x50	**0ZPT200025**	25x61	50	800
250x60	**0ZPT250025**	25x60	60	1000

Varianti / *Options*

ZK ruota in poliuretano SOFT ad alto spessore
SOFT polyurethane wheels with high tickness

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
80x25	105x85	80x60	9x16	38	108	**1ZPT0800GR0**	120
100x30	105x85	80x60	9x16	38	128	**1ZPT1000GR0**	120
100x40	105x85	80x60	9x16	45	128	**1ZPT100AGR0**	180
100x50	135x110	105x80	11x16	55	140	**1ZPT100CGR0**	300
125x30	105x85	80x60	9x16	45	155	**1ZPT1250GR0**	180
125x50	135x110	105x80	11x16	55	164	**1ZPT125CGR0**	300
150x40	135x110	105x80	11x16	55	194	**1ZPT1500GR0**	300
160x50	135x110	105x80	11x16	55	199	**1ZPT1600GR0**	300
200x50	135x110	105x80	11x16	55	239	**1ZPT2000GR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
80x25	105x85	80x60	9x16	38	108	120	**1ZPT0800GRI**	120
100x30	105x85	80x60	9x16	38	128	120	**1ZPT1000GRI**	120
100x40	105x85	80x60	9x16	45	128	120	**1ZPT100AGRI**	180
100x50	135x110	105x80	11x16	55	140	140	**1ZPT100CGRI**	300
125x30	105x85	80x60	9x16	45	155	120	**1ZPT1250GRI**	180
125x50	135x110	105x80	11x16	55	164	140	**1ZPT125CGRI**	300
150x40	135x110	105x80	11x16	55	194	140	**1ZPT1500GRI**	300
160x50	135x110	105x80	11x16	55	199	140	**1ZPT1600GRI**	300
200x50	135x110	105x80	11x16	55	239	140	**1ZPT2000GRI**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
80x25	12	77	38	104	**1ZPT0800QR0**	120
100x30	12	77	38	124	**1ZPT1000QR0**	120
100x40	12	77	45	124	**1ZPT100AQR0**	180
100x50	16	103	55	134	**1ZPT100CQR0**	300
125x30	12	77	45	151	**1ZPT1250QR0**	180
125x50	16	103	55	158	**1ZPT125CQR0**	300
150x40	16	103	55	188	**1ZPT1500QR0**	300
160x50	16	103	55	193	**1ZPT1600QR0**	300
200x50	16	103	55	233	**1ZPT2000QR0**	300

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN
80x25	12	77	38	104	140	**1ZPT0800QRI**	120
100x30	12	77	38	124	120	**1ZPT1000QRI**	120
100x40	12	77	45	124	140	**1ZPT100AQRI**	180
100x50	16	103	55	134	140	**1ZPT100CQRI**	300
125x30	12	77	45	151	120	**1ZPT1250QRI**	180
125x50	16	103	55	158	140	**1ZPT125CQRI**	300
150x40	16	103	55	188	140	**1ZPT1500QRI**	300
160x50	16	103	55	193	140	**1ZPT1600QRI**	300
200x50	16	103	55	233	140	**1ZPT2000QRI**	300

fisso piastra / *fixed castor*

					COD	daN
80x25	105x85	80x60	9x16	108	**1ZPT0800FI0**	120
100x30	105x85	80x60	9x16	128	**1ZPT1000FI0**	120
100x40	105x85	80x60	9x16	128	**1ZPT100AFI0**	120
100x50	135x110	105x80	11x16	140	**1ZPT100CFI0**	300
125x30	105x85	80x60	9x16	155	**1ZPT1250FI0**	120
125x50	135x110	105x80	11x16	164	**1ZPT125CFI0**	300
150x40	135x110	105x80	11x16	194	**1ZPT1500FI0**	300
160x50	135x110	105x80	11x16	199	**1ZPT1600FI0**	300
200x50	135x110	105x80	11x16	239	**1ZPT2000FI0**	300

girevole piastra freno centrale a spintore / *swivel castor with push central look*

							COD	daN
125x50	135x110	105x80	11x16	55	164	25/13	**1ZPT125CGCA**	300
160x50	135x110	105x80	11x16	55	199	25/13	**1ZPT1600GCA**	300
200x50	135x110	105x80	11x16	55	239	25/13	**1ZPT2000GCA**	300

girevole piastra freno centrale integrale a camma / *swivel castor total central lock with cam*

							COD	daN
125x50	135x110	105x80	11x16	55	164	18,5	**1ZPT125CGEA**	300
160x50	135x110	105x80	11x16	55	199	18,5	**1ZPT1600GEA**	300
200x50	135x110	105x80	11x16	55	239	18,5	**1ZPT2000GEA**	300

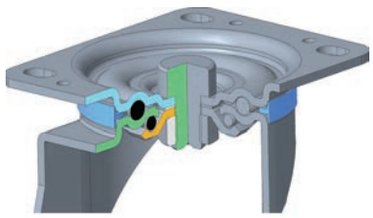
girevole piastra freno centrale integrale a camma / *swivel castor total central lock with cam*

							COD	daN
125x50	135x110	105x80	11x16	55	164	18,5	**1ZPT125CGEB**	300
160x50	135x110	105x80	11x16	55	199	18,5	**1ZPT1600GEB**	300
200x50	135x110	105x80	11x16	55	239	18,5	**1ZPT2000GEB**	300

girevole piastra per posizionatore / *swivel castor for directional lock*

						COD	daN
125x50	135x110	105x80	11x16	55	164	**1ZPT125CGRT**	225
160x50	135x110	105x80	11x16	55	199	**1ZPT1600GRT**	300
200x50	135x110	105x80	11x16	55	239	**1ZPT2000GRT**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno imbullonato ad alta resistenza per assemblaggio supporto.
Frenature integrale a pedale regolabile.



High thickness, pressed steel, zinc-plated components
Hard steel double ball races.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Bolted central pin.
High-resistance, bolted central pin for assembling.
Foot lever adjustable brake.

girevole piastra / *swivel castor*

						COD	daN
125x50	135x110	105x80	11x16	55	164	**1ZPT125CGM0**	350
150x40	135x110	105x80	11x16	55	194	**1ZPT1500GM0**	350
160x50	135x110	105x80	11x16	55	199	**1ZPT1600GM0**	350
200x50	135x110	105x80	11x16	55	239	**1ZPT2000GM0**	350
250x60	135x110	105x80	11x16	55	290	**1ZPT2500GM0**	350

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	55	164	141	**1ZPT125CGMI**	350
150x40	135x110	105x80	11x16	55	194	141	**1ZPT1500GMI**	350
160x50	135x110	105x80	11x16	55	199	141	**1ZPT1600GMI**	350
200x50	135x110	105x80	11x16	55	239	141	**1ZPT2000GMI**	350
250x60	135x110	105x80	11x16	55	290	141	**1ZPT2500GMI**	350

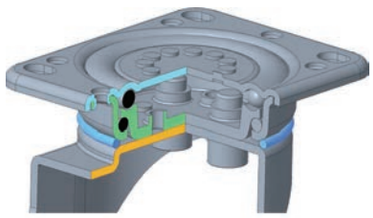
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	55	164	127	**1ZPT125CGMP**	350
150x40	135x110	105x80	11x16	55	194	127	**1ZPT1500GMP**	350
160x50	135x110	105x80	11x16	55	199	127	**1ZPT1600GMP**	350
200x50	135x110	105x80	11x16	55	239	127	**1ZPT2000GMP**	350

fisso piastra / *fixed castor*

					COD	daN
125x50	135x110	105x80	11x16	164	**1ZPT125CFM0**	350
150x40	135x110	105x80	11x16	194	**1ZPT1500FM0**	350
160x50	135x110	105x80	11x16	199	**1ZPT1600FM0**	350
200x50	135x110	105x80	11x16	239	**1ZPT2000FM0**	350
250x60	135x110	105x80	11x16	290	**1ZPT2500FM0**	350

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD	daN
80x25	105x85	80x60	9x16	40	120	**1ZPT0800GT0**	200
100x30	105x85	80x60	9x16	40	142	**1ZPT1000GT0**	200
100x40	105x85	80x60	9x16	40	140	**1ZPT100AGT0**	250
100x50	135x110	105x80	11x16	50	150	**1ZPT100CGT0**	300
125x30	105x85	80x60	9x16	45	165	**1ZPT1250GT0**	250
125x50	135x110	105x80	11x16	50	180	**1ZPT125CGT0**	350
150x40	135x110	105x80	11x16	50	207	**1ZPT1500GT0**	400
160x50	135x110	105x80	11x16	50	212	**1ZPT1600GT0**	600
200x50	135x110	105x80	11x16	55	252	**1ZPT2000GT0**	750

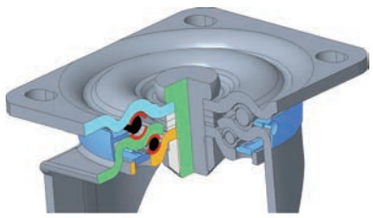
girevole piastra freno pedale anteriore / *swivel castor for directional lock*

							COD	daN
80x25	105x85	80x60	9x16	40	120	120	**1ZPT0800GTD**	200
100x30	105x85	80x60	9x16	40	142	120	**1ZPT1000GTD**	200
100x40	105x85	80x60	9x16	40	140	120	**1ZPT100AGTD**	250
100x50	135x110	105x80	11x16	50	150	146	**1ZPT100CGTD**	300
125x30	105x85	80x60	9x16	45	165	120	**1ZPT1250GTD**	250
125x50	135x110	105x80	11x16	50	180	146	**1ZPT125CGTD**	350
150x40	135x110	105x80	11x16	50	207	146	**1ZPT1500GTD**	400
160x50	135x110	105x80	11x16	50	212	146	**1ZPT1600GTD**	600
200x50	135x110	105x80	11x16	55	252	146	**1ZPT2000GTD**	750

fisso piastra / *fixed castor*

					COD	daN
80x25	105x85	80x60	9x16	120	**1ZPT0800FT0**	200
100x30	105x85	80x60	9x16	142	**1ZPT1000FT0**	200
100x40	105x85	80x60	9x16	140	**1ZPT100AFT0**	250
100x50	135x110	105x80	11x16	150	**1ZPT100CFT0**	300
125x30	105x85	80x60	9x16	165	**1ZPT1250FT0**	250
125x50	135x110	105x80	11x16	180	**1ZPT125CFT0**	350
150x40	135x110	105x80	11x16	207	**1ZPT1500FT0**	400
160x50	135x110	105x80	11x16	212	**1ZPT1600FT0**	600
200x50	135x110	105x80	11x16	252	**1ZPT2000FT0**	750

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
100x50	135x110	105x80	11x16	53	150	**1ZPT100CGH0**	300
125x50	135x110	105x80	11x16	53	175	**1ZPT125CGH0**	350
160x50	135x110	105x80	11x16	55	207	**1ZPT1600GH0**	600
200x50	135x110	105x80	11x16	60	252	**1ZPT2000GH0**	800
250x60	135x110	105x80	11x16	65	300	**1ZPT2500GH0**	1000

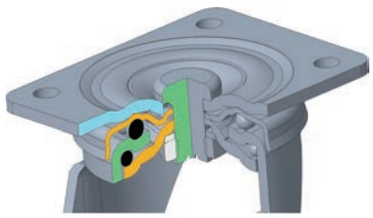
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	53	175	118	**1ZPT125CGHR**	350
160x50	135x110	105x80	11x16	55	207	118	**1ZPT1600GHR**	600
200x50	135x110	105x80	11x16	60	252	118	**1ZPT2000GHR**	800
250x60	135x110	105x80	11x16	65	300	118	**1ZPT2500GHR**	1000

fisso piastra / *fixed castor*

					COD	daN
100x50	135x110	105x80	11x16	150	**1ZPT100CFH0**	300
125x50	135x110	105x80	11x16	175	**1ZPT125CFH0**	350
160x50	135x110	105x80	11x16	207	**1ZPT1600FH0**	600
200x50	135x110	105x80	11x16	252	**1ZPT2000FH0**	800
250x60	135x110	105x80	11x16	300	**1ZPT2500FH0**	1000

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato.
Perno imbullonato alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.
Alta capacità di carico.



High thickness, pressed steel, zinc-plated components.
Double ball races with pressed and calibrated steel balls.
High-resistance, bolted central pin for assembling.
Rear foot lever total brake.High load capacity.

girevole piastra / *swivel castor*

						COD	daN
125x50	140x110	105x80	12,5	46	179	**1ZPT125CGP0**	350
160x50	140x110	105x80	12,5	52	212	**1ZPT1600GP0**	600
200x50	140x110	105x80	12,5	58	253	**1ZPT2000GP0**	800
250x60	200x160	160x120	14	85	325	**1ZPT2500GP0**	1000

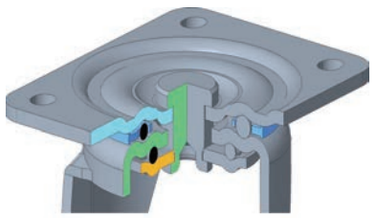
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x50	140x110	105x80	12,5	46	179	127	**1ZPT125CGPN**	350
160x50	140x110	105x80	12,5	52	212	127	**1ZPT1600GPN**	600
200x50	140x110	105x80	12,5	58	253	127	**1ZPT2000GPN**	800
250x60	200x160	160x120	14	85	325	127	**1ZPT2500GPN**	1000

fisso piastra / *fixed castor*

					COD	daN
125x50	135x110	105x80	11x16	179	**1ZPT125CFP0**	350
160x50	135x110	105x80	11x16	212	**1ZPT1600FP0**	600
200x50	135x110	105x80	11x16	253	**1ZPT2000FP0**	800
250x60	200x160	160x120	14x14	325	**1ZPT2500FP0**	1000

Componenti in acciaio stampato di notevole spessore verniciati colore nero.
Carichi elevati con ingombri ridotti.
Perno rivettato ad alta resistenza per assemblaggi supporto.
Predisposizione per frenatura della sola ruota.



High thickness, pressed steel, black painted components
for high loads and with reduced sizes.
High-resistance rivetted pin for housing's assembling.

girevole piastra / *swivel castor*

						COD	daN
100x40	110x85	86,5x60	8,5x8,5	22	125	**1ZPT100AGG0**	250
125x30	110x85	86,5x60	8,5x8,5	22	152	**1ZPT1250GG0**	250

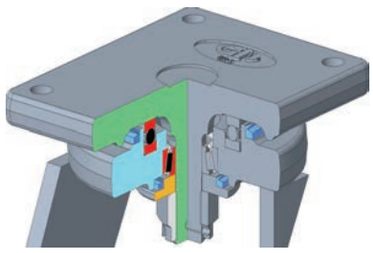
girevole foro per vite / *bolt hole swivel castor*

					COD	daN
100x40	12	84	22	125	**1ZPT100AQG0**	250
125x30	12	84	22	152	**1ZPT1250QG0**	250

fisso piastra / *fixed castor*

					COD	daN
100x40	105x64	86,5x49,5	8,5x8,5	125	**1ZPT100AFG0**	250

Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



Forged steel elettrically welded,zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.Solid central monolithic pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
125x50	175x140	140x105	13,5	56	185	**1ZPT125CGE0**	350
160x50	175x140	140x105	13,5	67	215	**1ZPT1600GE0**	600
200x50	175x140	140x105	13,5	78	250	**1ZPT2000GE0**	800
250x60	200x160	160x120	15,5	80	355	**1ZPT2500GE0**	1000

fisso piastra / *fixed castor*

					COD	daN
125x50	175x140	140x105	13,5	185	**1ZPT125CFE0**	350
160x50	175x140	140x105	13,5	215	**1ZPT1600FE0**	600
200x50	175x140	140x105	13,5	250	**1ZPT2000FE0**	800
250x60	200x160	160x120	15,5	355	**1ZPT2500FE0**	1000

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE: G SUPPORTO HEAVY DUTY CON FRENO RUOTA
DIAMETRO RUOTA 100-125, PORTATA: 250KG

SERIES: G HOUSING HEAVY DUTY WITH WHEEL BRAKE
DIAMETER WHEEL: 100-125, LOAD CAPACITY:250KG

Dati tecnici/technical data pag.: 19-20 of class S

SERIE: G SUPPORTO HEAVY DUTY CON FRENO RUOTA
DIAMETRO RUOTA 100-125, PORTATA: 250KG

SERIES: G HOUSING HEAVY DUTY WITH WHEEL BRAKE
DIAMETER WHEEL: 100-125, LOAD CAPACITY:250KG

Dati tecnici/technical data pag.: 19-20 of class S

RUOTE IN GHISA MECCANICA RIVESTIMENTO POLIURETANO

CAST IRON WHEELS WITH CAST POLYURETHANE TREAD

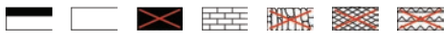
Caratteristiche Ruota

Rivestimento in poliuretano.
Struttura portante in ghisa meccanica.
Movimento mozzo:
doppi cuscinetti a sfere tenuta stagna.
Temperatura d'impiego da –20°C a +80°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 93 Sh.A +/- 3
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Cast polyurethane tread.
Cast iron wheel.
Type of bearing:
double waterproof ball bearings.
Temperature range: from –20°C to +80°C.
Good resistance to chemicals.
Tread hardness 93 Sh.A +/- 3
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*



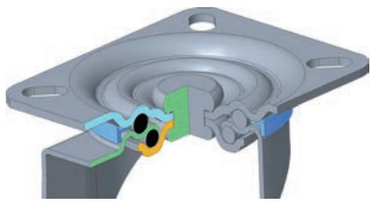
	COD			daN
80x30	**0RWT080012**	12x41	29	220
100x30	**0RWT100C12**	12x41	29	250
100x40	**0RWT100G15**	15x47	30	350
100x50	**0RWT100F20**	20x61	50	400
125x30	**0RWT125A15**	15x47	30	300
125x50	**0RWT125D20**	20x61	50	500
150x30	**0RWT150015**	15x47	30	350
150x40	**0RWT150A20**	20x40	40	500
150x40	**0RWT150B20**	20x61	50	550
150x50	**0RWT150D20**	20x61	50	700
175x40	**0RWT175020**	20x61	50	650
180x50	**0RWT180025**	25x61	50	800
200x40	**0RWT200A20**	20x61	50	750
200x50	**0RWT200C25**	25x61	50	1000
200x60	**0RWT200H25**	25x75	55	1200
200x80	**0RWT200Y30**	30x90	90	1500
250x50	**0RWT250A25**	25x61	50	1200
250x60	**0RWT250E25**	25x61	50	1400
250x80	**0RWT250Y30**	30x90	90	1800
300x70	**0RWT300C30**	30x70	70	2200
300x80	**0RWT300E35**	35x90	90	2400
400x100	**0RWT400040**	40x100	100	3500
500x105	**0RWT500040**	40x105	105	4500

Varianti / *Options*

Parafili in poliammide
Polyamide thread guards

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

girevole piastra / *swivel castor*

						COD	daN
80x30	105x85	80x60	9x16	38	108	**1RWT0800GR0**	120
100x30	105x85	80x60	9x16	38	128	**1RWT100CGR0**	120
100x50	135x110	105x80	11x16	55	140	**1RWT100FGR0**	300
125x30	105x85	80x60	9x16	45	155	**1RWT125AGR0**	180
125x50	135x110	105x80	11x16	55	164	**1RWT125DGR0**	300
150x30	105x85	80x60	9x16	45	183	**1RWT1500GR0**	180
150x40	135x110	105x80	11x16	55	194	**1RWT150BGR0**	300
175x40	135x110	105x80	11x16	55	217	**1RWT1750GR0**	300
180x50	135x110	105x80	11x16	55	219	**1RWT1800GR0**	300
200x40	135x110	105x80	11x16	55	239	**1RWT200AGR0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
80x30	105x85	80x60	9x16	38	108	120	**1RWT0800GRI**	120
100x30	105x85	80x60	9x16	38	128	120	**1RWT100CGRI**	120
100x50	135x110	105x80	11x16	55	140	140	**1RWT100FGRI**	300
125x30	105x85	80x60	9x16	45	155	120	**1RWT125AGRI**	180
125x50	135x110	105x80	11x16	55	164	140	**1RWT125DGRI**	300
150x30	105x85	80x60	9x16	45	183	120	**1RWT1500GRI**	180
150x40	135x110	105x80	11x16	55	194	140	**1RWT150BGRI**	300
175x40	135x110	105x80	11x16	55	217	140	**1RWT1750GRI**	300
180x50	135x110	105x80	11x16	55	219	140	**1RWT1800GRI**	300
200x40	135x110	105x80	11x16	55	239	140	**1RWT200AGRI**	300

girevole foro per vite / *bolt hole swivel castor*

					COD	daN
80x30	12	77	38	104	**1RWT0800QR0**	120
100x30	12	77	38	124	**1RWT100CQR0**	120
100x50	16	103	55	134	**1RWT100FQR0**	300
125x30	12	77	45	151	**1RWT125AQR0**	180
125x50	16	103	55	158	**1RWT125DQR0**	300
150x30	12	77	45	179	**1RWT1500QR0**	180
150x40	16	103	55	188	**1RWT150BQR0**	300
175x40	16	103	55	211	**1RWT1750QR0**	300
180x50	16	103	55	213	**1RWT1800QR0**	300
200x40	16	103	55	233	**1RWT200AQR0**	300

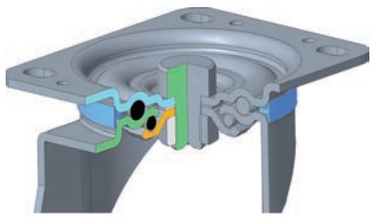
girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

						COD	daN
80x30	12	77	38	104	120	**1RWT0800QRI**	120
100x30	12	77	38	124	120	**1RWT100CQRI**	120
125x30	12	77	45	151	120	**1RWT125AQRI**	180
150x30	12	77	45	179	120	**1RWT1500QRI**	180
150x40	16	103	55	188	140	**1RWT150BQRI**	300
175x40	16	103	55	211	140	**1RWT1750QRI**	300
180x50	16	103	55	213	140	**1RWT1800QRI**	300
200x40	16	103	55	233	140	**1RWT200AQRI**	300

fisso piastra / *fixed castor*

					COD	daN
80x30	105x85	80x60	9x16	108	**1RWT0800FI0**	120
100x30	105x85	80x60	9x16	128	**1RWT100CFI0**	120
100x50	135x110	105x80	11x16	140	**1RWT100FFI0**	300
125x30	105x85	80x60	9x16	155	**1RWT125AFI0**	120
125x50	135x110	105x80	11x16	164	**1RWT125DFI0**	300
150x30	105x85	80x60	9x16	183	**1RWT1500FI0**	120
150x40	135x110	105x80	11x16	194	**1RWT150BFI0**	300
175x40	135x110	105x80	11x16	217	**1RWT1750FI0**	300
180x50	135x110	105x80	11x16	219	**1RWT1800FI0**	300
200x40	135x110	105x80	11x16	239	**1RWT200AFI0**	300

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno imbullonato ad alta resistenza per assemblaggio supporto.
Frenature integrale a pedale regolabile.



High thickness, pressed steel, zinc-plated components
Hard steel double ball races.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Bolted central pin.
High-resistance, bolted central pin for assembling.
Foot lever adjustable brake.

girevole piastra / *swivel castor*

						COD	daN
125x50	135x110	105x80	11x16	55	164	**1RWT125DGM0**	350
150x40	135x110	105x80	11x16	55	194	**1RWT150BGM0**	350
175x40	135x110	105x80	11x16	55	217	**1RWT1750GM0**	350
180x50	135x110	105x80	11x16	55	219	**1RWT1800GM0**	350
200x40	135x110	105x80	11x16	55	239	**1RWT200AGM0**	350
200x50	135x110	105x80	11x16	55	239	**1RWT200CGM0**	350
250x50	135x110	105x80	11x16	55	290	**1RWT250AGM0**	350
250x60	200x160	160x120	14x26	90	305	**1RWT250EGM0**	550

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	55	164	141	**1RWT125DGMI**	350
150x40	135x110	105x80	11x16	55	194	141	**1RWT150BGMI**	350
175x40	135x110	105x80	11x16	55	217	141	**1RWT1750GMI**	350
180x50	135x110	105x80	11x16	55	219	141	**1RWT1800GMI**	350
200x40	135x110	105x80	11x16	55	239	141	**1RWT200AGMI**	350
200x50	135x110	105x80	11x16	55	239	141	**1RWT200CGMI**	350
250x50	135x110	105x80	11x16	55	290	141	**1RWT250AGMI**	350

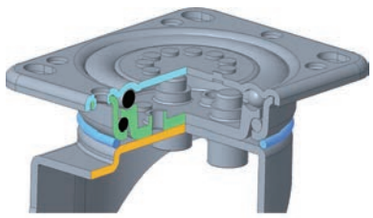
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	55	164	127	**1RWT125DGMP**	350
150x40	135x110	105x80	11x16	55	194	127	**1RWT150BGMP**	350
175x40	135x110	105x80	11x16	55	217	127	**1RWT1750GMP**	350
180x50	135x110	105x80	11x16	55	219	127	**1RWT1800GMP**	350
200x40	135x110	105x80	11x16	55	239	127	**1RWT200AGMP**	350
200x50	135x110	105x80	11x16	55	239	127	**1RWT200CGMP**	350

fisso piastra / *fixed castor*

					COD	daN
125x50	135x110	105x80	11x16	164	**1RWT125DFM0**	350
150x40	135x110	105x80	11x16	194	**1RWT150BFM0**	350
175x40	135x110	105x80	11x16	217	**1RWT1750FM0**	350
180x50	135x110	105x80	11x16	219	**1RWT1800FM0**	350
200x40	135x110	105x80	11x16	239	**1RWT200AFM0**	350
200x50	135x110	105x80	11x16	239	**1RWT200CFM0**	350
250x50	135x110	105x80	11x16	290	**1RWT250AFM0**	350
250x60	200x160	160x120	14x26	305	**1RWT250EFM0**	550

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel aisi 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

						COD	daN
80x30	105x85	80x60	9x16	40	120	**1RWT0800GT0**	220
100x30	105x85	80x60	9x16	40	142	**1RWT100CGT0**	250
100x40	105x85	80x60	9x16	40	140	**1RWT100GGT0**	350
100x50	135x110	105x80	11x16	50	150	**1RWT100FGT0**	400
125x30	105x85	80x60	9x16	45	165	**1RWT125AGT0**	300
125x50	135x110	105x80	11x16	50	180	**1RWT125DGT0**	500
150x30	105x85	80x60	9x16	45	190	**1RWT1500GT0**	350
150x40	135x110	105x80	11x16	50	207	**1RWT150BGT0**	550
150x50	135x110	105x80	11x16	50	207	**1RWT150DGT0**	700
175x40	135x110	105x80	11x16	50	230	**1RWT1750GT0**	650
180x50	135x110	105x80	11x16	50	232	**1RWT1800GT0**	750
200x40	135x110	105x80	11x16	55	252	**1RWT200AGT0**	750
200x50	135x110	105x80	11x16	55	252	**1RWT200CGT0**	750

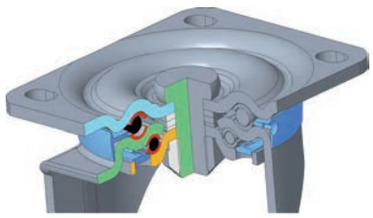
girevole piastra freno pedale anteriore / *swivel castor for directional lock*

							COD	daN
80x30	105x85	80x60	9x16	40	120	120	**1RWT0800GTD**	220
100x30	105x85	80x60	9x16	40	142	120	**1RWT100CGTD**	250
100x40	105x85	80x60	9x16	40	140	120	**1RWT100GGTD**	350
100x50	135x110	105x80	11x16	50	150	146	**1RWT100FGTD**	400
125x30	105x85	80x60	9x16	45	165	120	**1RWT125AGTD**	300
125x50	135x110	105x80	11x16	50	180	146	**1RWT125DGTD**	500
150x30	105x85	80x60	9x16	45	190	120	**1RWT1500GTD**	350
150x40	135x110	105x80	11x16	50	207	146	**1RWT150BGTD**	550
150x50	135x110	105x80	11x16	50	207	146	**1RWT150DGTD**	700
175x40	135x110	105x80	11x16	50	230	146	**1RWT1750GTD**	650
180x50	135x110	105x80	11x16	50	232	146	**1RWT1800GTD**	750
200x40	135x110	105x80	11x16	55	252	146	**1RWT200AGTD**	750
200x50	135x110	105x80	11x16	55	252	146	**1RWT200CGTD**	750

fisso piastra / *fixed castor*

					COD	daN
80x30	105x85	80x60	9x16	120	**1RWT0800FT0**	220
100x30	105x85	80x60	9x16	142	**1RWT100CFT0**	250
100x40	105x85	80x60	9x16	140	**1RWT100GFT0**	350
100x50	135x110	105x80	11x16	150	**1RWT100FFT0**	400
125x30	105x85	80x60	9x16	165	**1RWT125AFT0**	300
125x50	135x110	105x80	11x16	180	**1RWT125DFT0**	500
150x30	105x85	80x60	9x16	190	**1RWT1500FT0**	350
150x40	135x110	105x80	11x16	207	**1RWT150BFT0**	550
150x50	135x110	105x80	11x16	207	**1RWT150DFT0**	700
175x40	135x110	105x80	11x16	230	**1RWT1750FT0**	650
180x50	135x110	105x80	11x16	232	**1RWT1800FT0**	750
200x40	135x110	105x80	11x16	252	**1RWT200AFT0**	750
200x50	135x110	105x80	11x16	252	**1RWT200CFT0**	750

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
100x50	135x110	105x80	11x16	53	150	**1RWT100FGH0**	400
125x50	135x110	105x80	11x16	53	175	**1RWT125DGH0**	500
150x40	135x110	105x80	11x16	55	202	**1RWT150BGH0**	550
150x50	135x110	105x80	11x16	55	202	**1RWT150DGH0**	700
175x40	135x110	105x80	11x16	60	240	**1RWT1750GH0**	650
180x50	135x110	105x80	11x16	60	242	**1RWT1800GH0**	800
200x40	135x110	105x80	11x16	60	252	**1RWT200AGH0**	750
200x50	135x110	105x80	11x16	60	252	**1RWT200CGH0**	1000
250x50	135x110	105x80	11x16	65	300	**1RWT250AGH0**	1000
250x60	135x110	105x80	11x16	65	300	**1RWT250EGH0**	1000

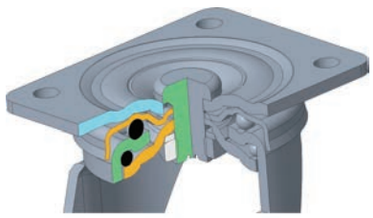
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
125x50	135x110	105x80	11x16	53	175	118	**1RWT125DGHR**	500
150x40	135x110	105x80	11x16	55	202	118	**1RWT150BGHR**	550
150x50	135x110	105x80	11x16	55	202	118	**1RWT150DGHR**	700
175x40	135x110	105x80	11x16	60	240	118	**1RWT1750GHR**	650
180x50	135x110	105x80	11x16	60	242	118	**1RWT1800GHR**	800
200x40	135x110	105x80	11x16	60	252	118	**1RWT200AGHR**	750
200x50	135x110	105x80	11x16	60	252	118	**1RWT200CGHR**	1000
250x50	135x110	105x80	11x16	65	300	118	**1RWT250AGHR**	1000
250x60	135x110	105x80	11x16	65	300	118	**1RWT250EGHR**	1000

fisso piastra / *fixed castor*

					COD	daN
100x50	135x110	105x80	11x16	150	**1RWT100FFH0**	400
125x50	135x110	105x80	11x16	175	**1RWT125DFH0**	500
150x40	135x110	105x80	11x16	202	**1RWT150BFH0**	550
150x50	135x110	105x80	11x16	202	**1RWT150DFH0**	700
175x40	135x110	105x80	11x16	240	**1RWT1750FH0**	650
180x50	135x110	105x80	11x16	242	**1RWT1800FH0**	800
200x40	135x110	105x80	11x16	252	**1RWT200AFH0**	750
200x50	135x110	105x80	11x16	252	**1RWT200CFH0**	1000
250x50	135x110	105x80	11x16	300	**1RWT250AFH0**	1000
250x60	135x110	105x80	11x16	300	**1RWT250EFH0**	1000

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato.
Perno imbullonato alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.
Alta capacità di carico.



High thickness, pressed steel, zinc-plated components.
Double ball races with pressed and calibrated steel balls.
High-resistance, bolted central pin for assembling.
Rear foot lever total brake.High load capacity.

girevole piastra / *swivel castor*

						COD	daN
100x50	140x110	105x80	12,5	46	166	**1RWT100FGP0**	400
125x50	140x110	105x80	12,5	46	179	**1RWT125DGP0**	500
150x40	140x110	105x80	12,5	52	207	**1RWT150BGP0**	500
150x50	140x110	105x80	12,5	52	207	**1RWT150DGP0**	700
175x40	140x110	105x80	12,5	58	240	**1RWT1750GP0**	650
180x50	140x110	105x80	12,5	58	242	**1RWT1800GP0**	800
200x40	140x110	105x80	12,5	58	253	**1RWT200AGP0**	750
200x50	140x110	105x80	12,5	58	253	**1RWT200CGP0**	1000
250x50	200x160	160x120	14	85	325	**1RWT250AGP0**	1000
250x60	200x160	160x120	14	85	325	**1RWT250EGP0**	1000

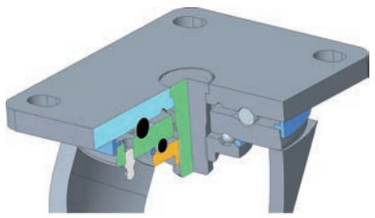
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
100x50	140x110	105x80	12,5	46	166	127	**1RWT100FGPN**	400
125x50	140x110	105x80	12,5	46	179	127	**1RWT125DGPN**	500
150x40	140x110	105x80	12,5	52	207	127	**1RWT150BGPN**	500
150x50	140x110	105x80	12,5	52	207	127	**1RWT150DGPN**	700
175x40	140x110	105x80	12,5	58	240	127	**1RWT1750GPN**	650
180x50	140x110	105x80	12,5	58	242	127	**1RWT1800GPN**	800
200x40	140x110	105x80	12,5	58	253	127	**1RWT200AGPN**	750
200x50	140x110	105x80	12,5	58	253	127	**1RWT200CGPN**	1000
250x50	200x160	160x120	14	85	325	127	**1RWT250AGPN**	1000
250x60	200x160	160x120	14	85	325	127	**1RWT250EGPN**	1000

fisso piastra / *fixed castor*

					COD	daN
100x50	135x110	105x80	11x16	166	**1RWT100FFP0**	400
125x50	135x110	105x80	11x16	179	**1RWT125DFP0**	500
150x40	135x110	105x80	11x16	207	**1RWT150BFP0**	500
150x50	135x110	105x80	11x16	207	**1RWT150DFP0**	700
175x40	135x110	105x80	11x16	240	**1RWT1750FP0**	650
180x50	135x110	105x80	11x16	242	**1RWT1800FP0**	800
200x40	135x110	105x80	11x16	253	**1RWT200AFP0**	750
200x50	135x110	105x80	11x16	253	**1RWT200CFP0**	1000
250x50	200x160	160x120	14x14	325	**1RWT250AFP0**	1000
250x60	200x160	160x120	14x14	325	**1RWT250EFP0**	1000

Componenti in acciaio elettrosaldato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona sfere acciaio.
Piste rotazione sfere calibrate lubrificate con ingrassatore.
Anelli protezione antipolvere su entrambi giri sfere.
Perno imbullonato in acciaio ad alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.



High thickness elettrically welded steel,zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Two seals for dust protection.High-resistance bolted pin for housing's assembling.
Rear foot lever total brake.

girevole piastra / *swivel castor*

						COD	daN
80x30	105x85	80x60	9x16	41	135	**1RWT0800GV0**	220
100x30	105x85	80x60	9x16	41	145	**1RWT100CGV0**	250
125x30	105x85	80x60	9x16	45	175	**1RWT125AGV0**	300
125x50	135x110	105x80	11x16	50	170	**1RWT125DGV0**	500
150x40	135x110	105x80	11x16	55	200	**1RWT150BGV0**	550
150x50	135x110	105x80	11x16	55	200	**1RWT150DGV0**	700
175x40	135x110	105x80	11x16	60	233	**1RWT1750GV0**	650
180x50	135x110	105x80	11x16	60	235	**1RWT1800GV0**	800
200x50	135x110	105x80	11x16	60	245	**1RWT200CGV0**	1000
200x80	175x140	140x105	15	63	248	**1RWT200YGV0**	1500
250x50	135x110	105x80	11x16	72	305	**1RWT250AGV0**	1000
250x80	175x140	140x105	15	68	292	**1RWT250YGV0**	1200
300x70	175x140	140x105	15	76	340	**1RWT300CGV0**	1200

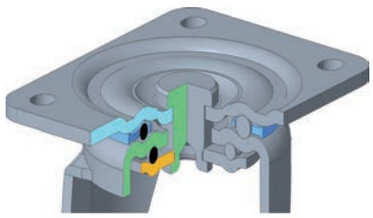
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

							COD	daN
80x30	105x85	80x60	9x16	41	135	124	**1RWT0800GVN**	220
100x30	105x85	80x60	9x16	41	145	124	**1RWT100CGVN**	250
125x30	105x85	80x60	9x16	45	175	126	**1RWT125AGVN**	300
125x50	135x110	105x80	11x16	50	170	126	**1RWT125DGVN**	500
150x40	135x110	105x80	11x16	55	200	130	**1RWT150BGVN**	550
150x50	135x110	105x80	11x16	55	200	130	**1RWT150DGVN**	700
175x40	135x110	105x80	11x16	60	233	130	**1RWT1750GVN**	650
180x50	135x110	105x80	11x16	60	235	130	**1RWT1800GVN**	800
200x50	135x110	105x80	11x16	60	245	130	**1RWT200CGVN**	1000
200x80	175x140	140x105	15	63	248	135	**1RWT200YGVN**	1500
250x50	135x110	105x80	11x16	72	305	130	**1RWT250AGVN**	1000
250x80	175x140	140x105	15	68	292	130	**1RWT250YGVN**	1200
300x70	175x140	140x105	15	76	340	135	**1RWT300CGVN**	1200

fisso piastra / *fixed castor*

					COD	daN
80x30	105x85	80x60	9x16	135	**1RWT0800FV0**	220
100x30	105x85	80x60	9x16	145	**1RWT100CFV0**	250
125x30	105x85	80x60	9x16	175	**1RWT125AFV0**	300
125x50	135x110	105x80	11x16	170	**1RWT125DFV0**	500
150x40	135x110	105x80	11x16	200	**1RWT150BFV0**	550
150x50	135x110	105x80	11x16	200	**1RWT150DFV0**	700
175x40	135x110	105x80	11x16	233	**1RWT1750FV0**	650
180x50	135x110	105x80	11x16	235	**1RWT1800FV0**	800
200x50	135x110	105x80	11x16	245	**1RWT200CFV0**	1000
200x80	175x140	140x105	15	248	**1RWT200YFV0**	1500
250x50	135x110	105x80	11x16	305	**1RWT250AFV0**	1000
250x80	175x140	140x105	15	292	**1RWT250YFV0**	1200
300x70	175x140	140x105	15	340	**1RWT300CFV0**	1200

Componenti in acciaio stampato di notevole spessore verniciati colore nero.
Carichi elevati con ingombri ridotti.
Perno rivettato ad alta resistenza per assemblaggi supporto.
Predisposizione per frenatura della sola ruota.



High thickness, pressed steel, black painted components
for high loads and with reduced sizes.
High-resistance rivetted pin for housing's assembling.

girevole piastra / *swivel castor*

						COD	daN
80x30	110x85	86,5x60	8,5x8,5	22	107	**1RWT0800GG0**	220
100x30	110x85	86,5x60	8,5x8,5	22	125	**1RWT100CGG0**	250
100x40	110x85	86,5x60	8,5x8,5	22	125	**1RWT100GGG0**	350
125x30	110x85	86,5x60	8,5x8,5	22	152	**1RWT125AGG0**	300

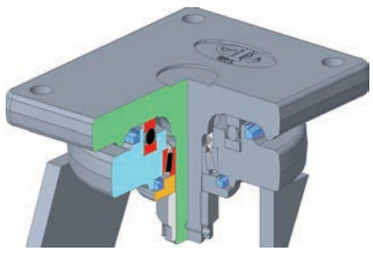
girevole foro per vite / *bolt hole swivel castor*

					COD	daN
80x30	12	84	22	107	**1RWT0800QG0**	220
100x30	12	84	22	125	**1RWT100CQG0**	250
100x40	12	84	22	125	**1RWT100GQG0**	350
125x30	12	84	22	152	**1RWT125AQG0**	300

fisso piastra / *fixed castor*

					COD	daN
80x30	105x64	86,5x49,5	8,5x8,5	107	**1RWT0800FG0**	220
100x30	105x64	86,5x49,5	8,5x8,5	125	**1RWT100CFG0**	250
100x40	105x64	86,5x49,5	8,5x8,5	125	**1RWT100GFG0**	350

Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



Forged steel elettrically welded,zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.Solid central monolithic pin for assembling.

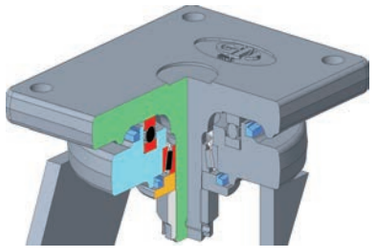
girevole piastra / *swivel castor*

						COD	daN
125x50	175x140	140x105	13,5	56	185	**1RWT125DGE0**	500
150x50	175x140	140x105	13,5	67	210	**1RWT150DGE0**	700
175x40	175x140	140x105	13,5	78	238	**1RWT1750GE0**	650
180x50	175x140	140x105	13,5	78	240	**1RWT1800GE0**	800
200x50	175x140	140x105	13,5	78	250	**1RWT200CGE0**	1000
200x60	175x140	140x105	13,5	78	250	**1RWT200HGE0**	1200
200x80	200x160	160x120	15,5	80	330	**1RWT200YGE0**	1500
250x50	200x160	160x120	15,5	80	355	**1RWT250AGE0**	1200
250x60	200x160	160x120	15,5	80	355	**1RWT250EGE0**	1400
250x80	200x160	160x120	15,5	80	355	**1RWT250YGE0**	1800
300x70	200x160	160x120	15,5	87	390	**1RWT300CGE0**	2200

fisso piastra / *fixed castor*

					COD	daN
125x50	175x140	140x105	13,5	185	**1RWT125DFE0**	500
150x50	175x140	140x105	13,5	210	**1RWT150DFE0**	700
175x40	175x140	140x105	13,5	238	**1RWT1750FE0**	650
180x50	175x140	140x105	13,5	240	**1RWT1800FE0**	800
200x50	175x140	140x105	13,5	250	**1RWT200CFE0**	1000
200x60	175x140	140x105	13,5	250	**1RWT200HFE0**	1200
200x80	200x160	160x120	15,5	330	**1RWT200YFE0**	1500
250x50	200x160	160x120	15,5	355	**1RWT250AFE0**	1200
250x60	200x160	160x120	15,5	355	**1RWT250EFE0**	1400
250x80	200x160	160x120	15,5	355	**1RWT250YFE0**	1800
300x70	200x160	160x120	15,5	390	**1RWT300CFE0**	2200

Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



Forged steel elettrically welded,zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.Solid central monolithic pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
125x50	200x160	160x120	15,5	70	215	**1RWT125DGE0D**	1000
150x50	200x160	160x120	15,5	70	227	**1RWT150DGE0D**	1400
175x40	200x160	160x120	15,5	70	252	**1RWT1750GE0D**	1300
180x50	200x160	160x120	15,5	70	255	**1RWT1800GE0D**	1600
200x50	200x160	160x120	15,5	65	290	**1RWT200CGE0D**	2000
250x50	200x160	160x120	15,5	75	340	**1RWT250AGE0D**	2400

fisso piastra / *fixed castor*

					COD	daN
125x50	200x160	160x120	15,5	215	**1RWT125DFE0D**	1000
150x50	200x160	160x120	15,5	227	**1RWT150DFE0D**	1400
175x40	200x160	160x120	15,5	252	**1RWT1750FE0D**	1300
180x50	200x160	160x120	15,5	255	**1RWT1800FE0D**	1600
200x50	200x160	160x120	15,5	290	**1RWT200CFE0D**	2000
250x50	200x160	160x120	15,5	340	**1RWT250AFE0D**	2400

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO CILINDRICO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA PERNI: 20X50 - 22X50 - 27X60

SERIES: R ZINC PLATED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: 20X50 - 22X50 - 27X60

Dati tecnici/technical data pag.: 8 of class S

SERIE: R SUPPORTO GIREVOLE ZINCATO CODOLO FILETTATO
DIAMETRO RUOTA: 80-200, PORTATA: 120-300KG, MISURA CODOLO: M12X35 - M16X50

SERIES: R ZINC PLATED THREADED STEM SWIVEL HOUSING
WHEEL DIAMETER: 80-200, LOAD CAPACITY: 120-300KG, STEM SIZE: M12x35 - M16x50

Dati tecnici/technical data pag.: 9 of class S

SERIE: G SUPPORTO HEAVY DUTY CON FRENO RUOTA
DIAMETRO RUOTA 80-125, PORTATA: 220-350KG

SERIES: G HOUSING HEAVY DUTY WITH WHEEL BRAKE
DIAMETER WHEEL: 80-125, LOAD CAPACITY: 220-350KG

Dati tecnici/technical data pag.: 19-20 of class S

RULLI IN ACCIAO RIVESTIMENTO IN POLIURETANO

STEEL ROLLERS WITH POLYURETHANE TREAD

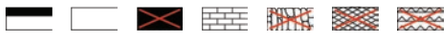
Caratteristiche Ruota

Rivestimento in poliuretano.
Struttura portante in acciaio.
Movimento mozzo:
doppi cuscinetti a sfera.
doppi cuscinetti a sfera tenuta stagna.
Temperatura d'impiego da –20°C a +80°C.
Buona resistenza agli aggressivi chimici.
Durezza battistrada 90/96 Sh.A
Ottima resistenza all'abrasione.
Velocità massima di lavoro 4 km/h.
Mezzo di trazione consigliato: manuale.

Wheel Features

Polyuretane tread.
Steel roller.
Type of bearing:
double ball bearings
double waterproof ball bearings.
Temperature range: from –20°C to +80°C.
Good resistance to chemicals.
Tread hardness 90/96 Sh.A
Very good resistance to abrasion.
Max. working speed 4 KPH.
Operation: manual.

Pavimentazioni Idonee / *Floring Type*

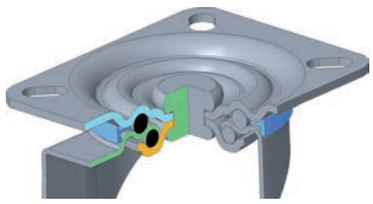


		COD		daN		COD		daN
35x27	**0TWK035006**	6x28	100					
35x27	**0TWK035A08**	8x28	100					
45x27	**0TWK045006**	6x30,5	100					
55x27	**0TWK055006**	6x30,5	100					
70x70				**0TWT070015**	15x70	70	500	
80x60				**0TWT080020**	20x60	60	600	
80x67				**0TWT080A20**	20x67	67	700	
80x80				**0TWT080B20**	20x80	80	800	
80x90				**0TWT080C20**	20x90	90	900	
80x100				**0TWT080D20**	20x100	100	1000	
82x55				**0TWT082020**	20x60	49	600	
82x70				**0TWT082A20**	20x70	70	650	
82x80				**0TWT082B20**	20x80	80	750	
82x90				**0TWT082C20**	20x90	90	850	
82x100				**0TWT082D20**	20x100	100	950	
85x60				**0TWT085020**	20x60	60	600	
85x70				**0TWT085A20**	20x70	70	700	
85x85				**0TWT085B20**	20x85	85	850	
85x90				**0TWT085C20**	20x90	90	900	
85x100				**0TWT085D20**	20x100	100	1000	

Varianti / *Options*

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.

Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Frenature integrali a pedale regolabile.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Adjustable brake foot lever.

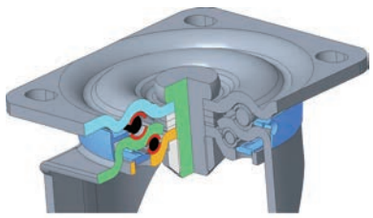
girevole piastra / *swivel castor*

						COD	daN
35x25	60x60	38-48x38	6,5	15	58	**1TWK0350GR0**	100
45x27	60x60	38-48x38	6,5	15	62	**1TWK0450GR0**	100
55x27	60x60	38-48x38	6,5	15	72	**1TWK0550GR0**	100

girevole foro per vite / *bolt hole swivel castor*

				COD	daN
35x25	11	15	50	**1TWK0350QR0**	100
45x27	11	15	60	**1TWK0450QR0**	100
55x27	11	15	70	**1TWK0550QR0**	100

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.



High thickness, pressed steel, zinc-plated components.
Double ball races with hard steel balls.Hardened, calibrated and lubricated ball race tracks.
Grease nipple.Two seals for dust protection.
High-resistance, bolted central pin for assembling.

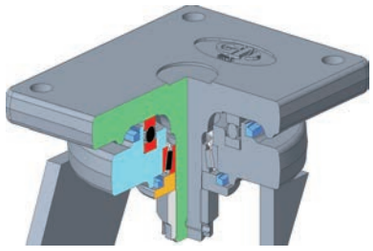
girevole piastra / *swivel castor*

						COD	daN
82x55	135x110	105x80	11x16	55		**1TWT0820GH0**	600

fisso piastra / *fixed castor*

					COD	daN
82x55	135x110	105x80	11x16		**1TWT0820FH0**	600

Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



Forged steel elettrically welded,zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.Solid central monolithic pin for assembling.

girevole piastra / *swivel castor*

						COD	daN
80x60	175x140	140x105	13,5	45	145	**1TWT0800GE0**	600
80x70	175x140	140x105	13,5	45	145	**1TWT080AGE0**	700
80x80	175x140	140x105	13,5	45	145	**1TWT080BGE0**	800
85x60	175x140	140x105	13,5	45	148	**1TWT0850GE0**	600
85x70	175x140	140x105	13,5	45	148	**1TWT085AGE0**	700
85x85	175x140	140x105	13,5	45	148	**1TWT085BGE0**	850

fisso piastra / *fixed castor*

					COD	daN
80x60	175x140	140x105	13,5	145	**1TWT0800FE0**	600
80x70	175x140	140x105	13,5	145	**1TWT080AFE0**	700
80x80	175x140	140x105	13,5	145	**1TWT080BFE0**	800
85x60	175x140	140x105	13,5	148	**1TWT0850FE0**	600
85x70	175x140	140x105	13,5	148	**1TWT085AFE0**	700
85x85	175x140	140x105	13,5	148	**1TWT085BFE0**	850

RUOTE IN POLIURETANO ALTE PORTATE

HEAVY LOADS POLYURETHANE WHEELS

Caratteristiche Ruota

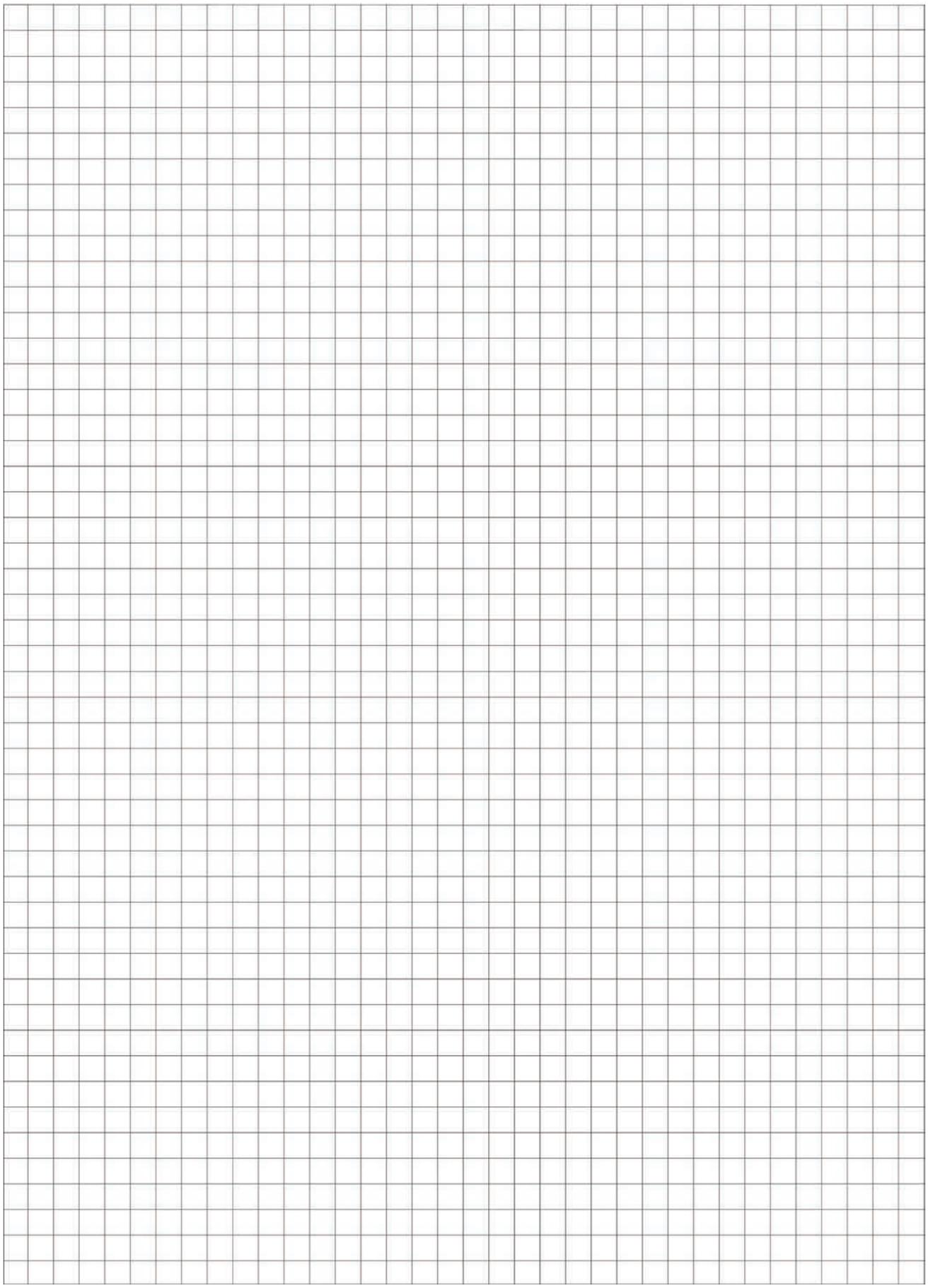
Corpo portante scatolato in acciaio e rivestimento in poliuretano.
Per carrelli trasporto interno, manuale o trainanti.
Velocità massima di utilizzo 6 km/h.
I valori di carico sono indicativi e possono variare a seconda dell'applicazione e del tempo di utilizzo.
Per informazioni contattare il nostro ufficio tecnico.
LE RUOTE SONO REALIZZABILI CON MOZZO A FORO PASSANTE E SEDE CHIAVETTA, O SU DISEGNO

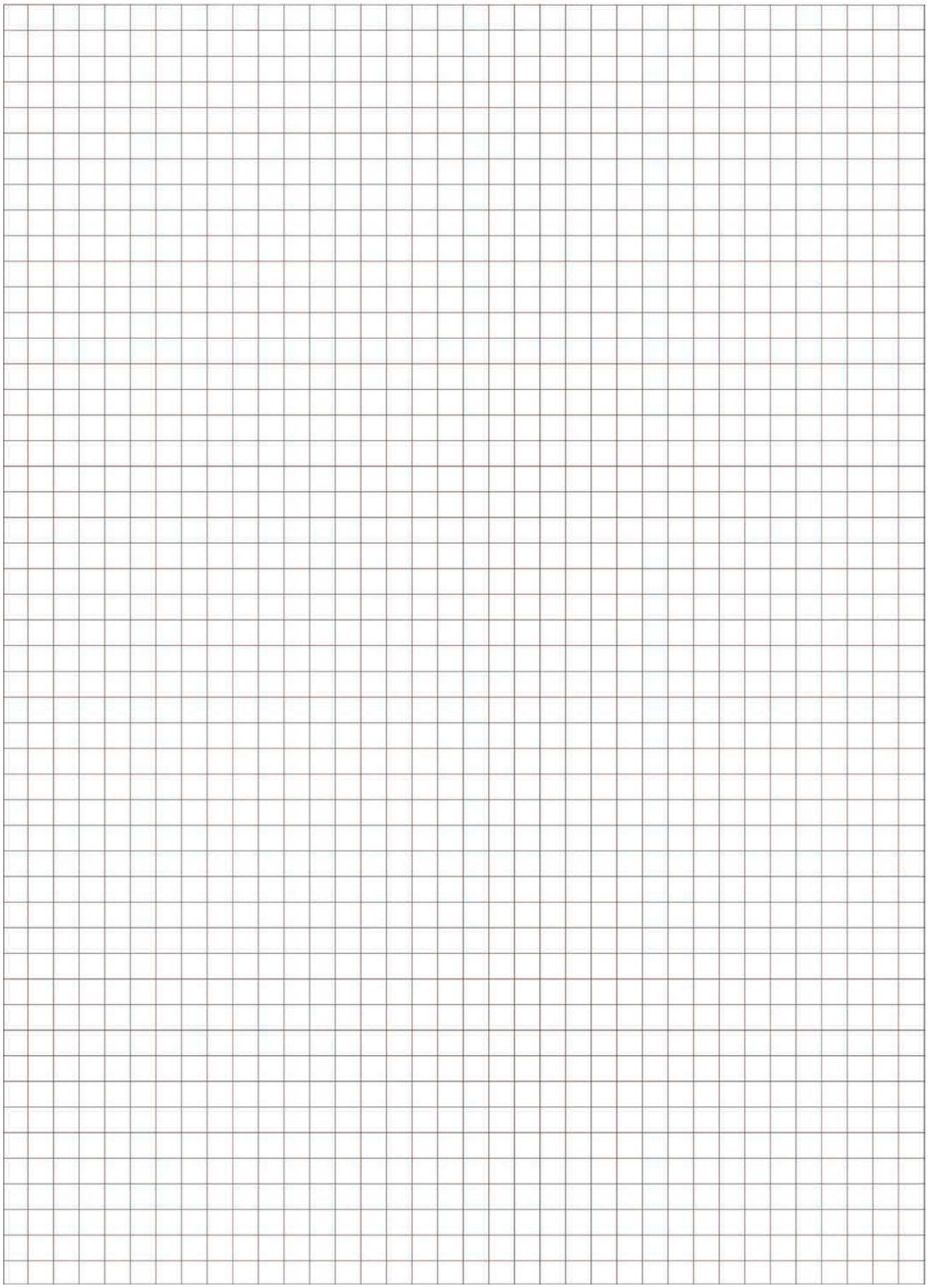
Wheel Features

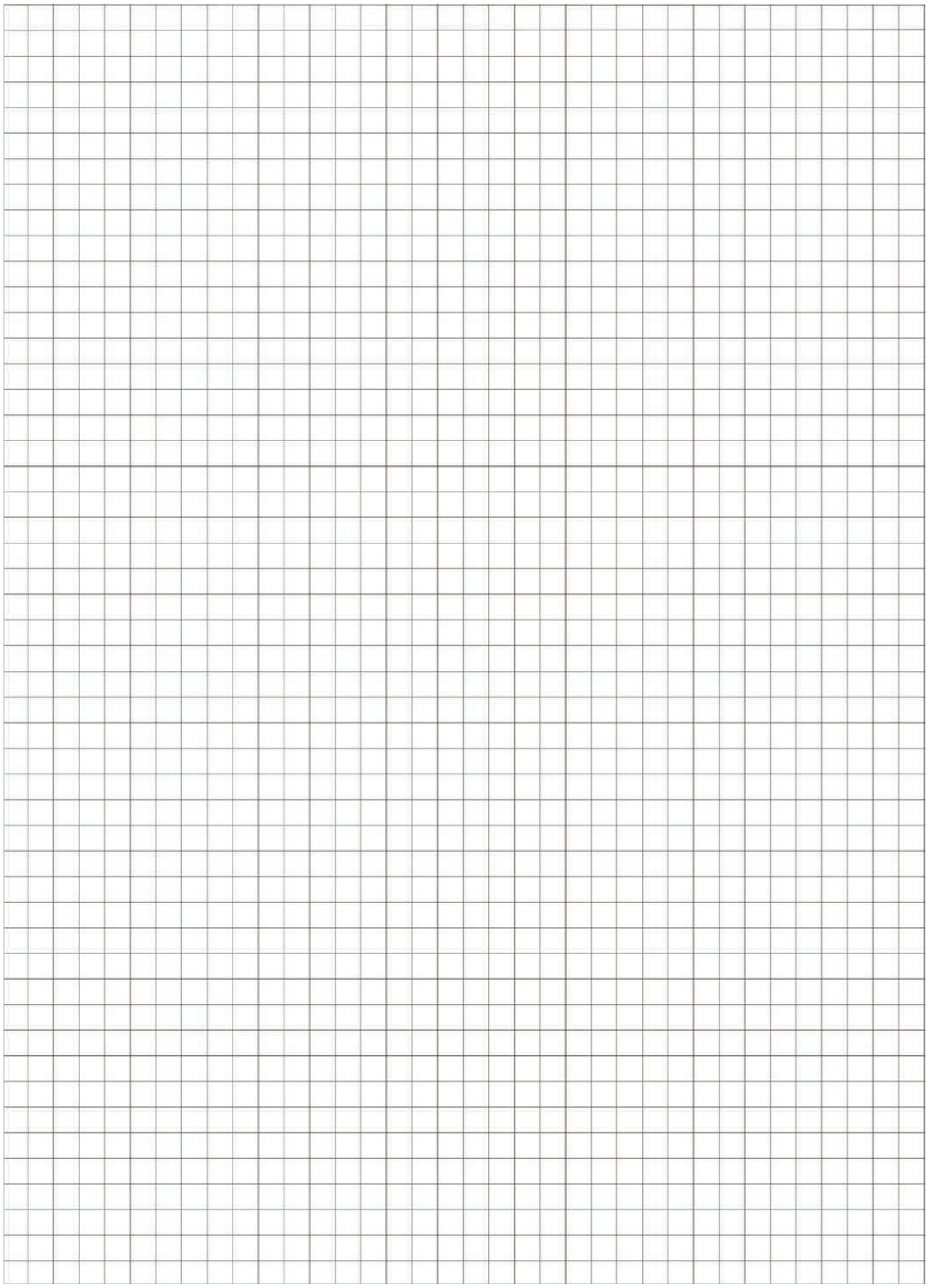
Pressed steel centre wheel with polyurethane tread.
For trolley internal or manually transport.
Max working speed 6 km/h
The load values are indicative and could change depending on the type and time of use.
For further information pls contact our tecnical department.
THE WHEELS CAN BE PRODUCED WITH PLAIN BEARING AND KEYWAY OR AS PER DRAWING

	COD		(axb-c)	daN
200x60	**0ATL200062A**	60	62x16	1200
200x80	**0ATL200A62A**	80	62x16	2000
200x100	**0ATL200B62A**	100	62x16	2200
200x120	**0ATL200C72A**	120	72x17	2500
250x60	**0ATL250062A**	60	62x16	1500
250x80	**0ATL250A62A**	80	62x16	1900
250x100	**0ATL250C62A**	100	62x16	2400
250x120	**0ATL250D72A**	120	72x17	3000
250x150	**0ATL250E72A**	150	72x17	3800
300x60	**0ATL300062A**	60	62x16	1500
300x80	**0ATL300A62A**	80	62x16	2500
300x100	**0ATL300B72A**	100	72x17	2900
300x120	**0ATL300C72A**	120	72x17	3500
300x150	**0ATL300D90B**	150	90x23	4500
300x200	**0ATL300F90B**	200	90x23	6000
350x80	**0ATL350072A**	80	72x17	2400
350x100	**0ATL350A90B**	100	90x23	3200
350x120	**0ATL350B90B**	120	90x23	3200
350x150	**0ATL350C90B**	150	90x23	5000
350x200	**0ATL350D110A**	200	110x22	7000
400x80	**0ATL400090B**	80	90x23	3000
400x100	**0ATL400A90B**	100	90x23	3500
400x120	**0ATL400B90B**	120	90x23	4000
400x150	**0ATL400C110A**	150	110x22	5500
400x200	**0ATL400D110A**	200	110x22	6500
500x100	**0ATL500090B**	100	90x23	3500
500x120	**0ATL500A90B**	120	90x23	4500
500x150	**0ATL500B11A**	150	110x22	6000
500x200	**0ATL500C11A**	200	110x22	6500

Le dimensioni riportate sulle pagine del nostro catalogo sono espresse in millimetri
All dimensional sizes shown on our catalogue are in millimeters.







CLASSE S

SUPPORTI

HOUSING

CATALOGO *CATALOGUE* 2021

GAMMA SUPPORTI PIVOTTANTI PER TUTTI GLI IMPIEGHI

SWIVEL HOUSING RANGES

R

SERIE R STANDARD DUTY
Pag. 5

M

SERIE M MEDIUM DUTY
Pag. 11

T

SERIE T WATERPROOF HEAVY DUTY
Pag. 12

H

SERIE H HEAVY DUTY
Pag. 14

P

SERIE P HEAVY DUTY
Pag. 15

V

SERIE V WELDED HEAVY DUTY
Pag. 16

E

SERIE E EXTRA WELDED HEAVY DUTY
Pag. 18

G

SERIE G NEW HEAVY DUTY
Pag. 19

X

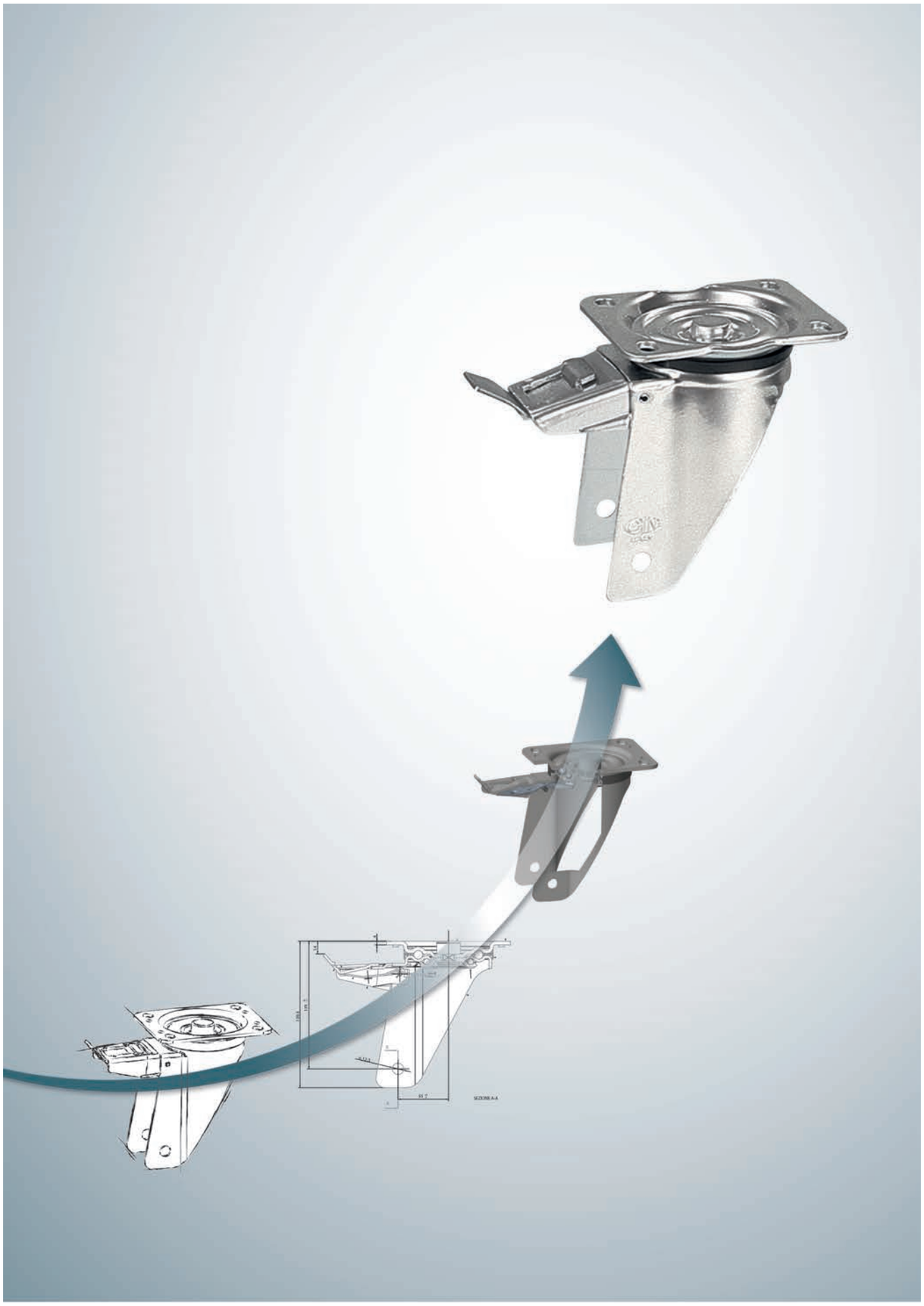
SERIE X STAINLESS STEEL STANDARD DUTY
Pag. 21

D

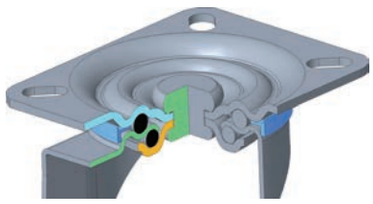
SERIE D STAINLESS STEEL WATERPROOF HEAVY DUTY
Pag. 25

Y

SERIE Y STAINLESS STEEL HEAVY DUTY
Pag. 27



Componenti in acciaio stampato zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Lubrificazione particolare per temperature da -15°C a + 280°C quando previsto.
Frenature integrali a pedale, a spintore centrale, ed eccentrico, molle di azionamento freni in acciaio al carbonio rivestite.
Bloccaggio direzionale agente nella direzione del senso di marcia.



Pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted or bolted central pin for assembling.
Special lubrication for use at temperatures from -15°C to +280°C when required.
Foot lever, central cam, total brake springs
Directional lock acting in the moving direction.

girevole piastra / *swivel castor*

							COD	daN
80x42	105x85	80x60	9x16	38	8x42	64	**SGR0080AA0**	120
80x42	105x85	80x60	9x16	38	8x42	68	**SGR00800A0**	120
100x42	105x85	80x60	9x16	38	8x42	74	**SGR0100AA0**	120
100x42	105x85	80x60	9x16	38	8x42	78	**SGR01000A0**	120
100x49	105x85	80x60	9x16	45	8x49	78	**SGR0100LA0**	180
100x52	135x110	105x80	11x16	55	12x52	90	**SGR0100RC0**	300
100x62	135x110	105x80	11x16	55	12x62	90	**SGR0100PC0**	300
125x49	105x85	80x60	9x16	45	8x49	92	**SGR01250A0**	180
125x49	105x85	80x60	9x16	45	10x49	92	**SGR01250B0**	180
125x52	135x110	105x80	11x16	55	12x52	102	**SGR0125RC0**	300
125x62	135x110	105x80	11x16	55	12x62	102	**SGR0125LC0**	300
150x49	105x85	80x60	9x16	45	10x49	108	**SGR01500B0**	180
160x52	135x110	105x80	11x16	55	12x52	119	**SGR0160RC0**	300
160x62	135x110	105x80	11x16	55	12x62	119	**SGR01600C0**	300
180x62	135x110	105x80	11x16	55	12x62	129	**SGR01800C0**	300
200x62	135x110	105x80	11x16	55	12x62	139	**SGR02000C0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

								COD	daN
80x42	105x85	80x60	9x16	38	8x42	68	120	**SGRI0800A9**	120
100x42	105x85	80x60	9x16	38	8x42	78	120	**SGRI1000A9**	120
100x49	105x85	80x60	9x16	45	8x49	78	120	**SGRI100LA9**	180
100x52	135x110	105x80	11x16	55	12x52	90	140	**SGRI100RC9**	300
100x62	135x110	105x80	11x16	55	12x62	90	140	**SGRI100PC9**	300
125x49	105x85	80x60	9x16	45	8x49	92	120	**SGRI1250A9**	180
125x49	105x85	80x60	9x16	45	10x49	92	120	**SGRI1250B9**	180
125x52	135x110	105x80	11x16	55	12x52	102	140	**SGRI125RC9**	300
125x62	135x110	105x80	11x16	55	12x62	102	140	**SGRI125LC9**	300
150x49	105x85	80x60	9x16	45	10x49	108	120	**SGRI1500B9**	180
160x52	135x110	105x80	11x16	55	12x52	119	140	**SGRI160RC9**	300
160x62	135x110	105x80	11x16	55	12x62	119	140	**SGRI1600C9**	300
180x62	135x110	105x80	11x16	55	12x62	129	140	**SGRI1800C9**	300
200x62	135x110	105x80	11x16	55	12x62	139	140	**SGRI2000C9**	300

fisso piastra / *fixed castor*

						COD	daN
80x42	105x85	80x60	9x16	8x42	68	**SFI00800A0**	120
100x42	105x85	80x60	9x16	8x42	78	**SFI01000A0**	250
100x49	105x85	80x60	9x16	8x49	78	**SFI0100LA0**	120
100x52	135x110	105x80	11x16	12x52	90	**SFI0100RC0**	350
100x62	135x110	105x80	11x16	12x62	90	**SFI0100PC0**	350
125x49	105x85	80x60	9x16	8x49	92	**SFI01250A0**	120
125x49	105x85	80x60	9x16	10x49	92	**SFI01250B0**	120
125x52	135x110	105x80	11x16	12x52	102	**SFI0125RC0**	350
125x62	135x110	105x80	11x16	12x62	102	**SFI0125LC0**	350
150x49	105x85	80x60	9x16	10x49	108	**SFI01500B0**	120
160x52	135x110	105x80	11x16	12x52	119	**SFI0160RC0**	350
160x62	135x110	105x80	11x16	12x62	119	**SFI01600C0**	350
180x62	135x110	105x80	11x16	12x62	129	**SFI01800C0**	350
200x62	135x110	105x80	11x16	12x62	139	**SFI02000C0**	350

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

								COD	daN
100x52	135x110	105x80	11x16	52	12x52	90	175	**SGRR100RCE**	300
100x62	135x110	105x80	11x16	52	12x62	90	175	**SGRR100PCE**	300
125x52	135x110	105x80	11x16	53	12x52	102	175	**SGRR125RCE**	300
125x62	135x110	105x80	11x16	53	12x62	102	175	**SGRR125LCE**	300
150x62	135x110	105x80	11x16	55	12x62	119	175	**SGRR1600CE**	300
200x62	135x110	105x80	11x16	58	12x62	139	175	**SGRR2000CC**	300

girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

								COD	daN
125x52	135x110	105x80	11x16	55	12x52	102	127	**SGRP125RC9**	300
125x62	135x110	105x80	11x16	55	12x62	102	127	**SGRP125LC9**	300
150-160x52	135x110	105x80	11x16	55	12x52	119	127	**SGRP160RC9**	300
150-160x62	135x110	105x80	11x16	55	12x62	119	127	**SGRP1600C9**	300
170-180x62	135x110	105x80	11x16	55	12x62	129	127	**SGRP1800C9**	300
200x62	135x110	105x80	11x16	55	12x62	139	127	**SGRP2000C9**	300

girevole piastra per posizionatore / *swivel castor for directional lock*

							COD	daN
80x42	105x85	80x60	9x16	38	8x42	68	**SGRT0800A0**	120
100x42	105x85	80x60	9x16	38	8x42	78	**SGRT1000A0**	120
100x49	105x85	80x60	9x16	45	8x49	78	**SGRT100LA0**	180
100x62	135x110	105x80	11x16	55	12x62	90	**SGRT100PC0**	300
125x49	105x85	80x60	9x16	45	10x49	92	**SGRT1250B0**	180
125x62	135x110	105x80	11x16	55	12x62	102	**SGRT125LC0**	300
140-150x49	105x85	80x60	9x16	45	10x49	108	**SGRT1500B0**	180
150-160x62	135x110	105x80	11x16	55	12x62	119	**SGRT1600C0**	300
170-180x62	135x110	105x80	11x16	55	12x62	129	**SGRT1800C0**	300
200x62	135x110	105x80	11x16	55	12x62	139	**SGRT2000C0**	300

girevole piastra freno centrale integrale spintore / *swivel castor with push central lock*

								COD	daN
125x62	135x110	105x80	11x16	55	12x62	102	25/13	**SGIC125LCB**	300
160x62	135x110	105x80	11x16	55	12x62	119	25/13	**SGIC1600CB**	300
180x62	135x110	105x80	11x16	55	12x62	129	25/13	**SGIC1800CB**	300
200x62	135x110	105x80	11x16	55	12x62	139	25/13	**SGIC2000CB**	300

girevole piastra freno centrale integrale a camma / *swivel castor total central lock with cam*

								COD	daN
125x62	135x110	105x80	11x16	55	12x62	102	18,5	**SGIE125LCA**	300
160x62	135x110	105x80	11x16	55	12x62	119	18,5	**SGIE1600CAC**	300
180x62	135x110	105x80	11x16	55	12x62	129	18,5	**SGIE1800CAC**	300
200x62	135x110	105x80	11x16	55	12x62	139	18,5	**SGIE2000CAC**	300

girevole piastra freno centrale integrale a camma / *swivel castor total central lock with cam*

								COD	daN
125x62	135x110	105x80	11x16	55	12x62	102	18,5	**SGIE125LCAI**	300
160x62	135x110	105x80	11x16	55	12x62	119	18,5	**SGIE1600CAD**	300
180x62	135x110	105x80	11x16	55	12x62	129	18,5	**SGIE1800CAD**	300
200x62	135x110	105x80	11x16	55	12x62	139	18,5	**SGIE2000CAD**	300

girevole foro per vite / *bolt hole swivel castor*

						COD	daN
80x42	12	3x77	38	8x42	64	**SQR00800A0**	120
100x42	12	3x77	38	8x42	74	**SQR01000A0**	120
100x49	12	3x77	45	8x49	74	**SQR0100LA0**	180
100x52	16	4x103	55	12x52	84	**SQR0100RC0**	300
100x62	16	4x103	55	12x62	84	**SQR0100PC0**	300
125x49	12	3x77	45	8x49	88	**SQR01250A0**	180
125x49	12	3x77	45	10x49	88	**SQR01250B0**	180
125x52	16	4x103	55	12x52	96	**SQR0125RC0**	300
125x62	16	4x103	55	12x62	96	**SQR0125LC0**	300
150x49	12	3x77	45	10x49	104	**SQR01500B0**	180
150x52	16	4x103	55	12x52	113	**SQR0160RC0**	300
150-160x62	16	4x103	55	12x62	113	**SQR01600C0**	300
180x62	16	4x103	55	12x62	123	**SQR01800C0**	300
200x62	16	4x103	55	12x62	133	**SQR02000C0**	300

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

							COD	daN
80x42	12	3x77	38	8x42	64	120	**SQRI0800A9**	120
100x42	12	3x77	38	8x42	74	120	**SQRI1000A9**	120
100x49	12	3x77	45	8x49	74	120	**SQRI100LA9**	180
100x52	16	4x103	55	12x52	84	140	**SQRI100RC9**	300
100x62	16	4x103	55	12x62	84	140	**SQRI100PC9**	300
125x49	12	3x77	45	8x49	88	120	**SQRI1250A9**	180
125x49	12	3x77	45	10x49	88	120	**SQRI1250B9**	180
125x52	16	4x103	55	12x52	96	140	**SQRI125RC9**	300
125x62	16	4x103	55	12x62	96	140	**SQRI125LC9**	300
150x49	12	3x77	45	10x49	104	120	**SQRI1500B9**	180
160x52	16	4x103	55	12x52	113	140	**SQRI160RC9**	300
160x62	16	4x103	55	12x62	113	140	**SQRI1600C9**	300
180x62	16	4x103	55	12x62	123	140	**SQRI1800C9**	300
200x62	16	4x103	55	12x62	133	140	**SQRI2000C9**	300

girevole codolo cilindrico / *swivel stem castor*

						COD	daN
80x42	20x50	3x77	38	8x42	64	**SCI00800A0**	120
100x42	20x50	3x77	38	8x42	74	**SCI01000A0**	120
100x49	22x50	3x77	45	8x49	74	**SCI0100LA0**	180
100x52	27x60	4x103	55	12x52	84	**SCI0100RC0**	300
100x62	27x60	4x103	55	12x62	84	**SCI0100PC0**	300
125x49	22x50	3x77	45	8x49	88	**SCI01250A0**	180
125x49	22x50	3x77	45	10x49	88	**SCI01250B0**	180
125x52	27x60	4x103	55	12x52	96	**SCI0125RC0**	300
125x62	27x60	4x103	55	12x62	96	**SCI0125LC0**	300
150x49	22x50	3x77	45	10x49	104	**SCI01500B0**	180
150x52	27x60	4x103	55	12x52	113	**SCI0160RC0**	300
150-160x62	27x60	4x103	55	12x62	113	**SCI01600C0**	300
180x62	27x60	4x103	55	12x62	123	**SCI01800C0**	300
200x62	27x60	4x103	55	12x62	133	**SCI02000C0**	300

girevole codolo cilindrico freno pedale anteriore regolabile / *swivel stem castor with adjustable front brake foot lever*

							COD	daN
80x42	20x50	3x77	38	8x42	64	120	**SCII0800A9**	120
100x42	20x50	3x77	38	8x42	74	120	**SCII1000A9**	120
100x49	22x50	3x77	45	8x49	74	120	**SCII100LA9**	180
100x52	27x60	4x103	55	12x52	84	140	**SCII100RC9**	300
100x62	27x60	4x103	55	12x62	84	140	**SCII100PC9**	300
125x49	22x50	3x77	45	8x49	88	120	**SCII1250A9**	180
125x49	22x50	3x77	45	10x49	88	120	**SCII1250B9**	180
125x52	27x60	4x103	55	12x52	96	140	**SCII125RC9**	300
125x62	27x60	4x103	55	12x62	96	140	**SCII125LC9**	300
150x49	22x50	3x77	45	10x49	104	120	**SCII1500B9**	180
150x52	27x60	4x103	55	12x52	113	140	**SCII160RC9**	300
160x62	27x60	4x103	55	12x62	113	140	**SCII1600C9**	300
180x62	27x60	4x103	55	12x62	123	140	**SCII1800C9**	300
200x62	27x60	4x103	55	12x62	133	140	**SCII2000C9**	300

girevole codolo filettato / *swivel threaded stem castor*

						COD	
80x42	M12x35	3x77	38	8x42	64	**SVI00800A0**	120
100x42	M12x35	3x77	38	8x42	74	**SVI01000A0**	120
100x49	M12x35	3x77	45	8x49	74	**SVI0100LA0**	180
100x52	M16x50	4x103	55	12x52	84	**SVI0100RC0**	300
100x62	M16x50	4x103	55	12x62	84	**SVI0100PC0**	300
125x49	M12x35	3x77	45	8x49	88	**SVI01250A0**	180
125x49	M12x35	3x77	45	10x49	88	**SVI01250B0**	180
125x52	M16x50	4x103	55	12x52	96	**SVI0125RC0**	300
125x62	M16x50	4x103	55	12x62	96	**SVI0125LC0**	300
150x49	M12x35	3x77	45	10x49	104	**SVI01500B0**	180
150x52	M16x50	4x103	55	12x52	113	**SVI0160RC0**	300
150-160x62	M16x50	4x103	55	12x62	113	**SVI01600C0**	300
180x62	M16x50	4x103	55	12x62	123	**SVI01800C0**	300
200x62	M16x50	4x103	55	12x62	133	**SVI02000C0**	300

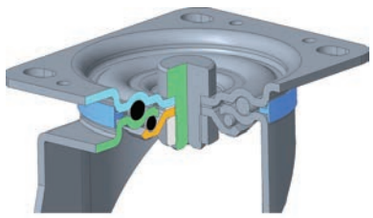
girevole codolo filettato freno pedale anteriore regolabile / *swivel threaded stem castor with adjustable front brake foot lever*

							COD	
80x42	M12x35	3x77	38	8x42	64	120	**SVII0800A9**	120
100x42	M12x35	3x77	38	8x42	74	120	**SVII1000A9**	120
100x49	M12x35	3x77	45	8x49	74	120	**SVII100LA9**	180
100x52	M16x50	4x103	55	12x52	84	140	**SVII100RC9**	300
100x62	M16x50	4x103	55	12x62	84	140	**SVII100PC9**	300
125x49	M12x35	3x77	45	8x49	88	120	**SVII1250A9**	180
125x49	M12x35	3x77	45	10x49	88	120	**SVII1250B9**	180
125x52	M16x50	4x103	55	12x52	96	140	**SVII125RC9**	300
125x62	M16x50	4x103	55	12x62	96	140	**SVII125LC9**	300
150x49	M12x35	3x77	45	10x49	104	120	**SVII1500B9**	180
150x52	M16x50	4x103	55	12x52	113	140	**SVII160RC9**	300
160x62	M16x50	4x103	55	12x62	113	140	**SVII1600C9**	300
180x62	M16x50	4x103	55	12x62	123	140	**SVII1800C9**	300
200x62	M16x50	4x103	55	12x62	133	140	**SVII2000C9**	300

POSIZIONATORE DIREZIONALE
(per supporti classe S a pagina 15 e 16)

DIRECTIONAL LOCK
(for castors class S page 15 and 16)

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temperato.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno imbullonato ad alta resistenza per assemblaggio supporto.
Frenature integrale a pedale, con molle di azionamento freni in acciaio al carbonio rivestite con GEOMET 500
Bloccaggio direzionale agente nella direzione del senso di marcia.



High thickness, pressed steel, zinc-plated components.
Hardened steel double ball races.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Bolted central pin.
High-resistance, bolted central pin for assembling.
Foot lever brake with GEOMET 500 steel springs.
Directional lock acting in the moving direction

girevole piastra / *swivel castor*

							COD	daN
125x62	135x110	105x80	11x16	55	12x62	102	**SGM0125LC0**	350
160x62	135x110	105x80	11x16	55	12x62	119	**SGM01600C0**	350
180x62	135x110	105x80	11x16	55	12x62	129	**SGM01800C0**	350
200x62	135x110	105x80	11x16	55	12x62	139	**SGM02000C0**	350
250x62	135x110	105x80	11x16	55	12x62	165	**SGM02500C0**	350
250-280x95	200x160	160x120	14x26	90	12x95	180	**SGM02800C0**	550

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

								COD	daN
125x62	135x110	105x80	11x16	55	12x62	102	140	**SGMI125LC9**	350
160x62	135x110	105x80	11x16	55	12x62	119	140	**SGMI1600C9**	350
180x62	135x110	105x80	11x16	55	12x62	129	140	**SGMI1800C9**	350
200x62	135x110	105x80	11x16	55	12x62	139	140	**SGMI2000C9**	350
250x62	135x110	105x80	11x16	55	12x62	165	140	**SGMI2500C9**	350

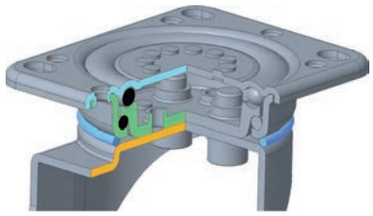
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

								COD	daN
125x62	135x110	105x80	11x16	55	12x62	102	127	**SGMP125LC9**	350
160x62	135x110	105x80	11x16	55	12x62	119	127	**SGMP1600C9**	350
180x62	135x110	105x80	11x16	55	12x62	129	127	**SGMP1800C9**	350
200x62	135x110	105x80	11x16	55	12x62	139	127	**SGMP2000C9**	350

fisso piastra / *fixed castor*

						COD	daN
125x62	135x110	105x80	11x16	12x62	102	**SFM0125LC0**	750
160x62	135x110	105x80	11x16	12x62	119	**SFM01600C0**	750
180x62	135x110	105x80	11x16	12x62	129	**SFM01800C0**	1300
200x62	135x110	105x80	11x16	12x62	139	**SFM02000C0**	750
250x62	135x110	105x80	11x16	12x62	165	**SFM02500C0**	750
250-280x95	200x160	160x120	14x26	12x95	180	**SFM02800C0**	1000

Componenti in acciaio stampato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppi bulloni per assemblaggio forcella.
Frenature integrale a pedale, con molle di azionamento freni in acciaio inox AISI 301.



High thickness, pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel AISI 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

							COD	daN
80x42	105x85	80x60	9x16	40	8x42	80	**SGT00800A0N**	250
100x42	105x85	80x60	9x16	40	8x42	92	**SGT0100SA0N**	250
100x49	105x85	80x60	9x16	45	10x49	90	**SGT01000B0N**	350
100x62	135x110	105x80	11x16	50	12x62	100	**SGT0100LC0N**	750
125x49	105x85	80x60	9x16	45	10x49	102,5	**SGT01250B0N**	350
125x62	135x110	105x80	11x16	50	12x62	117	**SGT0125LC0N**	750
150x49	105x85	80x60	9x16	45	10x49	115	**SGT01500B0N**	350
160x62	135x110	105x80	11x16	50	12x62	132	**SGT01600C0N**	750
180x62	135x110	105x80	11x16	50	12x62	142	**SGT01800C0N**	750
200x62	135x110	105x80	11x16	55	12x62	152	**SGT02000C0N**	750

girevole piastra freno pedale anteriore / *swivel castor for directional lock*

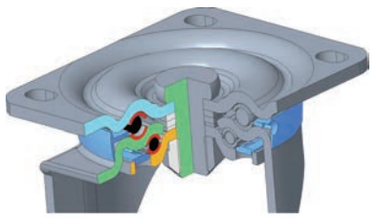
A - tutti i tipi di ruote
all type of wheels
B - solo rivestimento gomma
only rubber tread
C - no rivestimento gomma
no rubber tread

								Freno *Brake*	COD	daN
80x42	105x85	80x60	9x16	40	8x42	80	120	A	**SGTD0800APN**	250
100x42	105x85	80x60	9x16	40	8x42	92	120	A	**SGTD100SAPN**	250
100x49	105x85	80x60	9x16	45	10x49	90	120	A	**SGTD1000BLN**	350
100x62	135x110	105x80	11x16	50	12x62	100	146	A	**SGTD100LCKN**	750
125x49	105x85	80x60	9x16	45	10x49	102,5	120	A	**SGTD1250BLN**	350
125x49	105x85	80x60	9x16	45	10x49	102,5	120	B	**SGTD1250BMN**	350
125x62	135x110	105x80	11x16	50	12x62	117	146	B	**SGTD125LCJN**	750
125x62	135x110	105x80	11x16	50	12x62	117	146	C	**SGTD125LCKN**	750
150x49	105x85	80x60	9x16	45	10x49	115	120	A	**SGTD1500BMN**	350
150x62	135x110	105x80	11x16	50	12x62	132	146	A	**SGTD1500CKN**	750
160x62	135x110	105x80	11x16	50	12x62	132	146	A	**SGTD1600CIN**	750
175x62	135x110	105x80	11x16	50	12x62	142	146	C	**SGTD1750CYN**	750
180x62	135x110	105x80	11x16	50	12x62	142	146	C	**SGTD1800CIN**	750
180x62	135x110	105x80	11x16	50	12x62	142	146	B	**SGTD1800CVN**	750
200x62	135x110	105x80	11x16	55	12x62	152	146	B	**SGTD2000CGN**	750
200x62	135x110	105x80	11x16	55	12x62	152	146	C	**SGTD2000CWN**	750

fisso piastra / *fixed castor*

						COD	
80x42	105x85	80x60	9x16	8x42	78	**SFI01000A0**	250
100x42	105x85	80x60	9x16	8x42	92	**SFI0125SA0**	250
100x49	105x85	80x60	9x16	10x49	90	**SFM01000B0**	350
100x62	135x110	105x80	11x16	12x62	100	**SFM0100LC0**	750
125x49	105x85	80x60	9x16	10x49	102,5	**SFM01250B0**	350
125x62	135x110	105x80	11x16	12x62	117	**SFM0160AC0**	1300
150x49	105x85	80x60	9x16	10x49	115	**SFM01500B0**	350
160x62	135x110	105x80	11x16	12x62	132	**SFM01800C0**	1300
180-200x62	135x110	105x80	11x16	12x62	142	**SFM0200TC0**	750
200x62	135x110	105x80	11x16	12x62	152	**SFM0200AC0**	1300

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione su ralle acciaio temprato, calibrate e lubrificate con ingrassatore.
Doppia guarnizione a labbro di protezione sfere antipolvere.
Perno imbullonato alta resistenza per assemblaggio supporto.
Lubrificazione particolare per temperature da -15°C a +130°C.



High thickness, pressed steel, zinc-plated components.
Double ball races with hardened steel balls.
Hardened, calibrated and lubricated ball race tracks.
Grease nipple.
Two seals for dust protection.
High-resistance, bolted central pin for assembling.
Special lubrication for use at temperatures from 15°C to +130°C.

girevole piastra / *swivel castor*

							COD	daN
100x62	135x110	105x80	11x16	53	12x62	100	**SGH0100LC0**	1000
125x62	135x110	105x80	11x16	53	12x62	113	**SGH0125LC0**	1000
160x62	135x110	105x80	11x16	55	12x62	127	**SGH01600C0**	1000
200x62	135x110	105x80	11x16	60	12x62	152	**SGH02000C0**	1000
250x75	135x110	105x80	11x16	65	12x75	175	**SGH02500C0**	1000

girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

								COD	daN
125x62	135x110	105x80	11x16	53	12x62	113	133	**SGHR125LC9**	1000
150x62	135x110	105x80	11x16	55	12x62	127	133	**SGHR150LC9**	1000
160x62	135x110	105x80	11x16	55	12x62	127	133	**SGHR1600C9**	1000
200x62	135x110	105x80	11x16	60	12x62	152	133	**SGHR2000C9**	1000
250x75	135x110	105x80	11x16	65	12x75	175	133	**SGHR2500CA**	1000

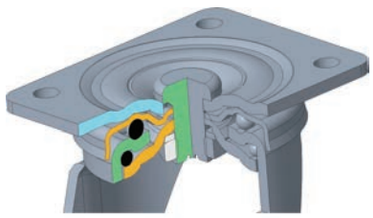
girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

								COD	daN
125x62	135x110	105x80	11x16	53	12x62	113	150	**SGHD125LC9**	1000
150x62	135x110	105x80	11x16	55	12x62	127	150	**SGHD150LC9**	1000
160x62	135x110	105x80	11x16	55	12x62	127	150	**SGHD1600C9**	1000
200x62	135x110	105x80	11x16	60	12x62	152	141	**SGHD2000C9**	1000
250x75	135x110	105x80	11x16	65	12x75	175	141	**SGHD2500C9**	1000

fisso piastra / *fixed castor*

						COD	daN
100x62	135x110	105x80	11x16	12x62	100	**SFH0100LC0**	1300
125x62	135x110	105x80	11x16	12x62	113	**SFH0125LC0**	1300
160x62	135x110	105x80	11x16	12x62	127	**SFH01600C0**	1300
200x62	135x110	105x80	11x16	12x62	152	**SFH02000C0**	1300
250x75	135x110	105x80	11x16	12x75	175	**SFH02500C0**	1300

Componenti in acciaio stampato di notevole spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato.
Perno imbullonato alta resistenza per assemblaggio supporto.
Lubrificazione particolare per temperature da -15°C a +130°C.
Frenatura integrale a pedale posteriore.
Alta capacità di carico.



High thickness, pressed steel, zinc-plated components.
Double ball races with pressed and calibrated steel balls.
High-resistance, bolted central pin for assembling.
Special lubrication for use at temperatures from 15°C to +130°C.
Rear foot lever total brake.
High load capacity.

girevole piastra / *swivel castor*

							COD	daN
125x62	140x110	105x80	12,5	46	12x62	116	**SGP0125DC0**	1000
160x62	140x110	105x80	12,5	52	12x62	132	**SGP0160DC0**	1000
200x62	140x110	105x80	12,5	58	12x62	153	**SGP0200DC0**	1000
300x82	200x160	160x120	14	85	18x82	200	**SGP0300EG0**	1500

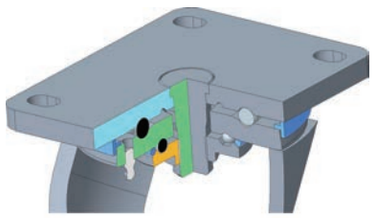
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

								COD	daN
125x62	140x110	105x80	12,5	46	12x62	116	127	**SGPN125DC9**	1000
160x62	140x110	105x80	12,5	52	12x62	132	127	**SGPN160DC9**	1000
200x62	140x110	105x80	12,5	58	12x62	153	127	**SGPN200DC9**	1000
300x82	200x160	160x120	14	85	18x82	200	127	**SGPN300EG9**	1500

fisso piastra / *fixed castor*

						COD	daN
125x62	135x110	105x80	11x16	12x62	117	**SFM0160AC0**	1300
160x62	135x110	105x80	11x16	12x62	132	**SFM01800C0**	1300
200x62	135x110	105x80	11x16	12x62	150	**SFM0200AC0**	1300
300x82	200x160	160x120	14	18x82	200	**SFP0300EG0**	1500

Componenti in acciaio elettrosaldato di grosso spessore zincati galvanicamente.
Rotazione piastra su doppia corona di sfere in acciaio temprato.
Piste rotazione sfere calibrate e lubrificate con ingrassatore.
Doppio anello di protezione antipolvere su entrambi i giri sfere.
Perno imbullonato in acciaio ad alta resistenza per assemblaggio supporto.
Frenatura integrale a pedale posteriore.



High thickness elettrically welded, zinc-plated components.
Double ball race with hardened steel balls.
Calibrated and lubricated ball race tracks.
Grease nipple.
Two seals for dust protection.
High-resistance bolted central pin.
Rear foot lever total brake.

girevole piastra / *swivel castor*

							COD	daN
80-100x52	105x85	80x60	9x16	41	10x52	95	**SGV0100LB0**	400
100x63	135x110	105x80	11x16	35	12x63	90	**SGV0100PC0**	1100
125x52	105x85	80x60	9x16	45	10x52	112	**SGV01250B0**	400
125x63	135x110	105x80	11x16	50	12x63	107,5	**SGV0125LC0**	1100
150-160x63	135x110	105x80	11x16	55	12x63	125	**SGV01600C0**	1100
150-160x73	135x110	105x80	11x16	55	12x73	125	**SGV0160PC0**	1100
175-200x63	135x110	105x80	11x16	60	12x63	145	**SGV02000C0**	1100
200x92	175x140	140x105	15	63	16x92	148	**SGV0200DE0**	1200
230-250x63	135x110	105x80	11x16	72	12x63	180	**SGV02500C0**	1100
250x92	175x140	140x105	15	68	16x92	167	**SGV0250CE0**	1200
250-280x78	200x160	160x120	15	72	16x78	185	**SGV0250ME0**	2000
300x92	175x140	140x105	15	76	16x92	190	**SGV0300CE0**	1200

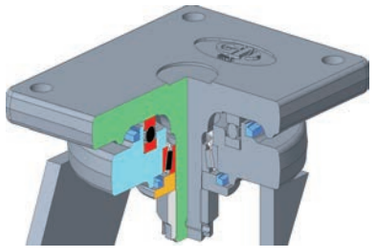
girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

								COD	daN
80-100x52	105x85	80x60	9x16	41	10x52	95	124	**SGVN100LB9**	400
100x63	135x110	105x80	11x16	35	12x63	90	130	**SGVN100PC9**	1100
125x52	105x85	80x60	9x16	45	10x52	112	126	**SGVN1250B9**	400
125x63	135x110	105x80	11x16	50	12x63	107,5	126	**SGVN125LC9**	1100
150-160x63	135x110	105x80	11x16	55	12x63	125	130	**SGVN1600C9**	1100
150-160x73	135x110	105x80	11x16	55	12x73	125	130	**SGVN160PC9**	1100
175-200x63	135x110	105x80	11x16	60	12x63	145	130	**SGVN2000C9**	1100
200x92	175x140	140x105	15	63	16x92	148	135	**SGVN200DE9**	1200
230-250x63	135x110	105x80	11x16	72	12x63	180	130	**SGVN2500C9**	1100
250x92	175x140	140x105	15	68	16x92	167	130	**SGVN250CE9**	1200
250-280x78	200x160	160x120	15	72	16x78	185	135	**SGVN250ME9**	2000
300x92	175x140	140x105	15	76	16x92	190	135	**SGVN300CE9**	1200

fisso piastra / *fixed castor*

						COD	
80-100x52	105x85	80x60	9x16	10x52	95	**SFV0100LB0**	400
100x63	135x110	105x80	11x16	12x63	90	**SFV0100PC0**	1100
125x52	105x85	80x60	9x16	10x52	112	**SFV01250B0**	400
125x63	135x110	105x80	11x16	12x63	107,5	**SFV0125LC0**	1100
150-160x63	135x110	105x80	11x16	12x63	125	**SFV01600C0**	1100
150-160x73	135x110	105x80	11x16	12x73	125	**SFV0160PC0**	1100
175-200x63	135x110	105x80	11x16	12x63	145	**SFV02000C0**	1100
200x92	175x140	140x105	15	16x92	148	**SFV0200DE0**	1200
230-250x63	135x110	105x80	11x16	12x63	180	**SFV02500C0**	1100
250x92	175x140	140x105	15	16x92	167	**SFV0250CE0**	1200
250-280x78	200x160	160x120	15	16x78	185	**SFV0250ME0**	2000
300x92	175x140	140x105	15	16x92	190	**SFV0300CE0**	1200

Componenti in acciaio forgiato a caldo elettrosaldati di notevole spessore zincati galvanicamente.
Rotazione piastra su cuscinetto reggispinta assiale a sfere e cuscinetto a rulli conici di registro.
Doppie guarnizioni a labbro di protezione su entrambi i cuscinetti.
Piastra con perno centrale monolitico per assemblaggio supporto.



Forged steel elettrically welded, zinc-plated components.
Thrust ball bearings and tapered roller bearing.
Two seals for dust protection.
Solid central monolithic pin for assembling.

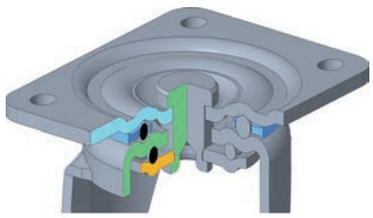
girevole piastra / *swivel castor*

							COD	daN
85x90	175x140	140x105	13,5	45	16x90	106	**SGE00850E0**	1500
125x90	175x140	140x105	13,5	57	16x90	123	**SGE01250E0**	1500
125-160x125	200x160	160x120	15,5	70	16x125	152	**SGE0160PE0**	2800
150-160x90	175x140	140x105	13,5	67	16x90	136	**SGE01600E0**	1500
175-200x90	175x140	140x105	13,5	78	16x90	152	**SGE02000E0**	1500
175-180x125	200x160	160x120	15,5	70	16x125	165	**SGE0180PE0**	2800
200x125	200x160	160x120	15,5	65	16x125	190	**SGE0200PE0**	2800
230-250x125	200x160	160x120	15,5	75	16x125	215	**SGE0250PE0**	2800
230-280x100	200x160	160x120	15,5	80	16x100	230	**SGE02800E0**	2800
300-310x125	200x160	160x120	15,5	87	16x125	240	**SGE03100E0**	2800
400-410x120	255x205	210x160	17,5	110	24x120	300	**SGE04100F0**	3200

fisso piastra / *fixed castor*

						COD	daN
85x90	175x140	140x105	13,5		16x90	106	**SFE00850E0**	1500
125x90	175x140	140x105	13,5		16x90	123	**SFE01250E0**	1500
125-160x125	200x160	160x120	15,5		16x125	152	**SFE0160PE0**	2800
150-160x90	175x140	140x105	13,5		16x90	136	**SFE01600E0**	1500
175-200x90	175x140	140x105	13,5		16x90	152	**SFE02000E0**	1500
175-180x125	200x160	160x120	15,5		16x125	165	**SFE0180PE0**	2800
200x125	200x160	160x120	15,5		16x125	190	**SFE0200PE0**	2800
230-250x125	200x160	160x120	15,5		16x125	215	**SFE0250PE0**	2800
230-280x100	200x160	160x120	15,5		16x100	230	**SFE02800E0**	2800
300-310x125	200x160	160x120	15,5		16x125	240	**SFE03100E0**	2800
400-410x120	255x205	210x160	17,5		24x120	300	**SFE04100F0**	3200

Componenti in acciaio stampato di notevole spessore verniciati colore nero per carichi eleveti con ingombri ridotti.
Rotazione piastra su singola corona di sfere in acciaio stampato e calibrato. (schema A)
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato. (schema B)
Rotazione piastra su doppia corona di sfere in acciaio stampato e calibrato. (schema C)
Perno rivettato ad alta resistenza per assemblaggi supporto.
Predisposizione per frenatura della sola ruota.



High thickness, pressed steel, black painted components for high loads and with reduced dimensions.
Single ball race with pressed and calibrated steel balls (scheme A)
Double ball races with pressed and calibrated steel balls (scheme B)
Double ball races with pressed and calibrated steel balls (scheme c)
High-resistance rivetted pin for housing's assembling.

girevole piastra / *swivel castor*

							Note	COD	daN
50-63x40	95x65	74,5x44,5	7,5	24/27	8x40	40/47	A	**SGG0063AA0**	150
76x50	110x85	86,5x60	8,5	22	10x50	62	B	**SGG0076CB0**	200
80x50	110x85	86,5x60	8,5	22	10x50	67	B	**SGG0080CB0**	350
80x50	110x85	86,5x60	8,5	22	12x50	67	C	**SGG0080CD0**	550
100x50	110x85	86,5x60	8,5	22	10x50	75	B	**SGG0100CB0**	350
125x50	110x85	86,5x60	8,5	22	10x50	90	B	**SGG0125CB0**	350

girevole foro per vite / *bolt hole swivel castor*

						Note	COD	daN
76x50	12	84	22	10x50	62	B	**SQG0076CB0**	200
80x50	12	84	22	10x50	67	B	**SQG0080CB0**	350
100x50	12	84	22	10x50	75	B	**SQG0100CB0**	350
125x50	12	84	22	10x50	90	B	**SQG0125CB0**	350

girevole codolo filettato / *swivel threaded stem castor*

						Note	COD	daN
50-63x40	M18x20		24/27	8x40	40/47	A	**SVG0063AA00J**	150

fisso piastra / *fixed castor*

						Note	COD	daN
50-63x40	92x65	74,5x44,5	7,5		8x40	40/47	A	**SFG0063AA0**	150
76x50	105x64	86,5x49,5	8,5		10x50	62	B	**SFG0076CB0**	200
80x50	105x64	86,5x49,5	8,5		10x50	67	B	**SFG0080CB0**	350
80x50	105x64	86,5x49,5	8,5		12x50	67	C	**SFG0080CC0**	550
100x50	105x64	86,5x49,5	8,5		10x50	75	B	**SFG0100CB0**	350

girevole piastra freno ruota / *swivel castor wheel brake*

							Note	COD	daN
50-63x40	95x65	74,5x44,5	7,5	24/27	8x40	40/47	A	**SGGF063AA9**	150
76x50	110x85	86,5x60	8,5	22	10x50	62	B	**SGGF076CB9**	200
80x50	110x85	86,5x60	8,5	22	10x50	67	B	**SGGF080CB9**	350
100x50	110x85	86,5x60	8,5	22	10x50	75	B	**SGGF100CB9**	350
125x50	110x85	86,5x60	8,5	22	10x50	90	B	**SGGF125CB9**	350

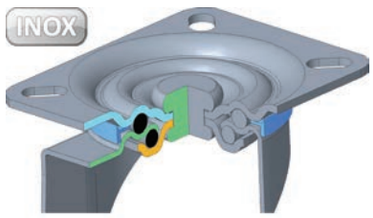
girevole foro per vite freno ruota / *bolt hole swivel castor with wheel brake*

							Note	COD	daN
76x50	12	84	22	10x50	62		B	**SQGF076CB9**	200
80x50	12	84	22	10x50	67		B	**SQGF080CB9**	350
100x50	12	84	22	10x50	75		B	**SQGF100CB9**	350
125x50	12	84	22	10x50	90		B	**SQGF125CB9**	350

girevole codolo filettato freno ruota / *swivel threaded stem castor with wheel brake*

							Note	COD	daN
50-63x40	M18x20		24/27	8x40	40/47		A	**SVGF063AA90J**	150

Componenti in acciaio stampato INOX AISI 304.
Rotazione piastra su doppia corona di sfere in acciaio INOX AISI 420.
Piste rotazione sfere calibrate e lubrificate.
Anello di protezione sfere antipolvere.
Perno ribadito per assemblaggio supporto.
Lubrificazione particolare per temperature da -15°C a + 280°C quando previsto.
Frenature integrali a pedale, con molle di azionamento freni INOX AISI 301.



Pressed stainless steel AISI 304 components.
Double ball races with stainless steel balls in AISI 420.
Calibrated and lubricated ball race tracks.
Dust protection ring.
Rivetted pin for housing's assembling
Special lubrication for use at temperatures from -15°C to +280°C when required.
Stainless steel AISI 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

							COD	daN
80x42	105x85	80x60	9x16	38	8x42	68	**SGX00800A0**	120
100x42	105x85	80x60	9x16	38	8x42	78	**SGX01000A0**	120
100x49	105x85	80x60	9x16	45	8x49	78	**SGX0100LA0**	180
100x52	135x110	105x80	11x16	55	12x52	90	**SGX0100RC0**	300
100x62	135x110	105x80	11x16	55	12x62	90	**SGX0100PC0**	300
125x49	105x85	80x60	9x16	45	10x49	92	**SGX01250B0**	180
125x52	135x110	105x80	11x16	55	12x52	101	**SGX0125RC0**	300
125x62	135x110	105x80	11x16	55	12x62	101	**SGX0125LC0**	300
150x49	105x85	80x60	9x16	45	10x49	108	**SGX01500B0**	180
150x52	135x110	105x80	11x16	55	12x52	118	**SGX0160RC0**	300
150-160x62	135x110	105x80	11x16	55	12x62	118	**SGX01600C0**	300
200x62	135x110	105x80	11x16	55	12x62	138	**SGX02000C0**	300

girevole piastra freno pedale anteriore regolabile / *swivel castor with adjustable front brake foot lever*

								COD	daN
80x42	105x85	80x60	9x16	38	8x42	68	120	**SGXI0800A9**	120
100x42	105x85	80x60	9x16	38	8x42	78	120	**SGXI1000A9**	120
100x49	105x85	80x60	9x16	45	8x49	78	120	**SGXI100LA9**	180
100x52	135x110	105x80	11x16	55	12x52	90	140	**SGXI100RC9**	300
100x62	135x110	105x80	11x16	55	12x62	90	140	**SGXI100PC9**	300
125x49	105x85	80x60	9x16	45	10x49	92	120	**SGXI1250B9**	180
125x52	135x110	105x80	11x16	55	12x52	101	140	**SGXI125RC9**	300
125x62	135x110	105x80	11x16	55	12x62	101	140	**SGXI125LC9**	300
150x49	105x85	80x60	9x16	45	10x49	108	120	**SGXI1500B9**	180
150x52	135x110	105x80	11x16	55	12x52	118	140	**SGXI160RC9**	300
150-160x62	135x110	105x80	11x16	55	12x62	118	140	**SGXI1600C9**	300
175x62	135x110	105x80	11x16	55	12x62	138	140	**SGXI1750C9**	300
200x62	135x110	105x80	11x16	55	12x62	138	140	**SGXI2000C9**	300

fisso piastra / *fixed castor*

						COD	daN
80x42	105x85	80x60	9x16	8x42	68	**SFX00800A0**	250
100x42	105x85	80x60	9x16	8x42	78	**SFX01000A0**	250
100x49	105x85	80x60	9x16	8x49	78	**SFX0100LA0**	250
100x52	135x110	105x80	11x16	12x52	90	**SFX0100RC0**	350
100x62	135x110	105x80	11x16	12x62	90	**SFX0100PC0**	350
125x49	105x85	80x60	9x16	10x49	92	**SFX01250B0**	250
125x52	135x110	105x80	11x16	12x52	101	**SFX0125RC0**	350
125x62	135x110	105x80	11x16	12x62	101	**SFX0125LC0**	350
150x49	105x85	80x60	9x16	10x49	108	**SFX01500B0**	250
150x52	135x110	105x80	11x16	12x52	118	**SFX0160RC0**	350
150-160x62	135x110	105x80	11x16	12x62	118	**SFX01600C0**	350
200x62	135x110	105x80	11x16	12x62	138	**SFX02000C0**	350

girevole piastra freno pedale anteriore / *swivel castor with front brake foot lever*

								COD	daN
100x52	135x110	105x80	11x16	52	12x52	90	175	**SGXR100RCG**	300
100x62	135x110	105x80	11x16	52	12x62	90	175	**SGXR100PCG**	300
125x52	135x110	105x80	11x16	53	12x52	101	175	**SGXR125RCG**	300
125x62	135x110	105x80	11x16	53	12x62	101	175	**SGXR125LCG**	300
150x62	135x110	105x80	11x16	55	12x62	118	175	**SGXR1600CG**	300
200x62	135x110	105x80	11x16	58	12x62	138	175	**SGXR2000CH**	300

girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

								COD	daN
100x52	135x110	105x80	11x16	52	12x52	90	127	**SGXP100RC9**	300
100x62	135x110	105x80	11x16	52	12x62	90	127	**SGXP100PC9**	300
125x52	135x110	105x80	11x16	53	12x52	101	127	**SGXP125RC9**	300
125x62	135x110	105x80	11x16	53	12x62	101	127	**SGXP125LC9**	300
150x62	135x110	105x80	11x16	55	12x62	118	127	**SGXP1600C9**	300
200x62	135x110	105x80	11x16	58	12x62	138	127	**SGXP2000C9**	300

girevole foro per vite / *bolt hole swivel castor*

						COD	daN
80x42	12	2,5x77	38	8x42	64	**SQX00800A0**	120
100x42	12	2,5x77	38	8x42	74	**SQX01000A0**	120
100x49	12	2,5x77	45	8x49	74	**SQX0100LA0**	180
100x52	16	4x103	55	12x52	84	**SQX0100RC0**	300
100x62	16	4x103	55	12x62	84	**SQX0100PC0**	300
125x49	12	2,5x77	45	10x49	88	**SQX01250B0**	180
125x52	16	4x103	55	12x52	96	**SQX0125RC0**	300
125x62	16	4x103	55	12x62	96	**SQX0125LC0**	300
150x49	12	2,5x77	45	10x49	104	**SQX01500B0**	180
150x52	16	4x103	55	12x52	113	**SQX0160RC0**	300
150-160x62	16	4x103	55	12x62	113	**SQX01600C0**	300
200x62	16	4x103	55	12x62	133	**SQX02000C0**	300

girevole foro per vite freno pedale anteriore regolabile / *bolt hole swivel castor with adjustable front brake foot lever*

							COD	daN
80x42	12	2,5x77	38	8x42	64	120	**SQXI0800A9**	120
100x42	12	2,5x77	38	8x42	74	120	**SQXI1000A9**	120
100x49	12	2,5x77	45	8x49	74	120	**SQXI100LA9**	180
100x52	16	4x103	55	12x52	84	140	**SQXI100RC9**	300
100x62	16	4x103	55	12x62	84	140	**SQXI100PC9**	300
125x49	12	2,5x77	45	10x49	88	120	**SQXI1250B9**	180
125x52	16	4x103	55	12x52	96	140	**SQXI125RC9**	300
125x62	16	4x103	55	12x62	96	140	**SQXI125LC9**	300
150x49	12	2,5x77	45	10x49	104	120	**SQXI1500B9**	180
150-160x62	16	4x103	55	12x62	113	140	**SQXI1600C9**	300
160x52	16	4x103	55	12x52	113	140	**SQXI160RC9**	300
175x62	16	4x103	55	12x62	133	140	**SQXI1750C9**	300
200x62	16	4x103	55	12x62	133	140	**SQXI2000C9**	300

girevole codolo cilindrico / *swivel stem castor*

						COD	daN
80x42	20x50	2,5x77	38	8x42	64	**SCY00800A0**	120
100x42	20x50	2,5x77	38	8x42	74	**SCY01000A0**	120
100x49	22x50	2,5x77	45	8x49	74	**SCY0100LA0**	180
100x52	27x60	4x103	55	12x52	84	**SCY0100RC0**	300
100x62	27x60	4x103	55	12x62	84	**SCY0100PC0**	300
125x49	22x50	2,5x77	45	10x49	88	**SCY01250B0**	180
125x52	27x60	4x103	55	12x52	96	**SCY0125RC0**	300
125x62	27x60	4x103	55	12x62	95	**SCY0125LC0**	300
150x49	22x50	2,5x77	45	10x49	104	**SCY01500B0**	180
150x52	27x60	4x103	55	12x52	113	**SCY0160RC0**	300
150-160x62	27x60	4x103	55	12x62	113	**SCY01600C0**	300
200x62	27x60	4x103	55	12x62	133	**SCY02000C0**	300

girevole codolo cilindrico freno pedale anteriore regolabile / *swivel stem castor with adjustable front brake foot lever*

							COD	daN
80x42	20x50	2,5x77	38	8x42	64	120	**SCYI0800A9**	120
100x42	20x50	2,5x77	38	8x42	74	120	**SCYI1000A9**	120
100x49	22x50	2,5x77	45	8x49	74	120	**SCYI100LA9**	180
100x52	27x60	4x103	55	12x52	84	140	**SCYI100RC9**	300
100x62	27x60	4x103	55	12x62	84	140	**SCYI100PC9**	300
125x49	22x50	2,5x77	45	10x49	88	120	**SCYI1250B9**	180
125x52	27x60	4x103	55	12x52	96	140	**SCYI125RC9**	300
125x62	27x60	4x103	55	12x62	95	140	**SCYI125LC9**	300
150x49	22x50	2,5x77	45	10x49	104	120	**SCYI1500B9**	180
160x52	27x60	4x103	55	12x52	113	140	**SCYI160RC9**	300
160x62	27x60	4x103	55	12x62	133	140	**SCYI1600C9**	300
175x62	27x60	4x103	55	12x62	133	140	**SCYI1750C9**	300
200x62	27x60	4x103	55	12x62	133	140	**SCYI2000C9**	300

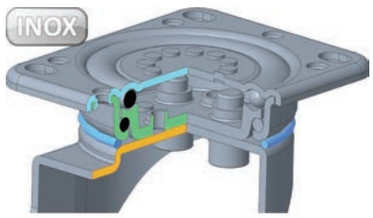
girevole codolo filettato / *swivel threaded stem castor*

						COD	daN
80x42	M12x35	2,5x77	38	8x42	64	**SVY00800A0**	120
100x42	M12x35	2,5x77	38	8x42	74	**SVY01000A0**	120
100x49	M12x35	2,5x77	45	8x49	74	**SVY0100LA0**	180
100x52	M16x50	4x103	55	12x52	84	**SVY0100RC0**	300
100x62	M16x50	4x103	55	12x62	84	**SVY0100PC0**	300
125x49	M12x35	2,5x77	45	10x49	88	**SVY01250B0**	180
125x52	M16x50	4x103	55	12x52	96	**SVY0125RC0**	300
125x62	M16x50	4x103	55	12x62	96	**SVY0125LC0**	300
150x49	M12x35	2,5x77	45	10x49	104	**SVY01500B0**	180
150x52	M16x50	4x103	55	12x52	113	**SVY0160RC0**	300
150-160x62	M16x50	4x103	55	12x62	113	**SVY01600C0**	300
200x62	M16x50	4x103	55	12x62	133	**SVY02000C0**	300

girevole codolo filettato freno pedale anteriore regolabile / *swivel threaded stem castor with adjustable front brake foot lever*

							COD	daN
80x42	M12x35	2,5x77	38	8x42	64	120	**SVYI0800A9**	120
100x42	M12x35	2,5x77	38	8x42	74	120	**SVYI1000A9**	120
100x49	M12x35	2,5x77	45	8x49	74	120	**SVYI100LA9**	180
100x52	M16x50	4x103	55	12x52	84	140	**SVYI100RC9**	300
100x62	M16x50	4x103	55	12x62	84	140	**SVYI100PC9**	300
125x49	M12x35	2,5x77	45	10x49	88	120	**SVYI1250B9**	180
125x52	M16x50	4x103	55	12x52	96	140	**SVYI125RC9**	300
125x62	M16x50	4x103	55	12x62	96	140	**SVYI125LC9**	300
150x49	M12x35	2,5x77	45	10x49	104	120	**SVYI1500B9**	180
150x52	M16x50	4x103	55	12x52	113	140	**SVYI160RC9**	300
160x62	M16x50	4x103	55	12x62	133	140	**SVYI1600C9**	300
175x62	M16x50	4x103	55	12x62	133	140	**SVYI1750C9**	300
200x62	M16x50	4x103	55	12x62	133	140	**SVYI2000C9**	300

Componenti in acciaio stampato di grosso spessore in acciaio AISI 304.
Rotazione piastra su doppia corona di sfere in acciaio INOX aisi 420.
Piste rotazione sfere coniate, calibrate e lubrificate con ingrassatore.
Anello di protezione sfere antipolvere.
Doppio perno imbullonato per assemblaggio forcella.
Frenature integrale a pedale, con molle di azionamento freni in acciaio inox AISI 301.



High thickess pressed stainless steel AISI 304 components.
Double ball races with stainless steel balls in AISI 420.
Formed calibrated and lubricated ball race tracks.
Grease nipple.
Dust protection ring.
Two bolts for fork's assembling.
Stainless steel AISI 301 foot lever total brake with springs.

girevole piastra / *swivel castor*

							COD	daN
80x42	105x85	80x60	9x16	40	8x42	80	**SGD00800A0N**	250
100x42	105x85	80x60	9x16	40	8x42	92	**SGD0100SA0N**	250
100x49	105x85	80x60	9x16	45	10x49	90	**SGD01000B0N**	350
100x62	135x110	105x80	11x16	50	12x62	100	**SGD0100LC0N**	750
125x49	105x85	80x60	9x16	45	10x49	102,5	**SGD01250B0N**	350
125x62	135x110	105x80	11x16	50	12x62	117	**SGD0125LC0N**	750
150x49	105x85	80x60	9x16	45	10x49	115	**SGD01500B0N**	350
160x62	135x110	105x80	11x16	50	12x62	132	**SGD01600C0N**	750
175x62	135x110	105x80	11x16	50	12x62	142	**SGD01800C0N**	750
200x62	135x110	105x80	11x16	55	12x62	152	**SGD02000C0N**	750

girevole piastra freno pedale anteriore / *swivel castor for directional lock*

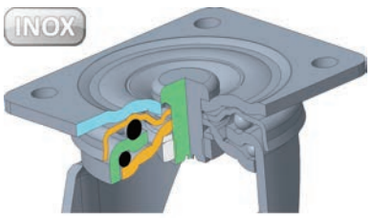
A - tutti i tipi di ruote
all type of wheels
B - solo rivestimento gomma
only rubber tread
C - no rivestimento gomma
no rubber tread

								Freno *Brake*	COD	daN
80x42	105x85	80x60	9x16	40	8x42	80	120	A	**SGDD0800APN**	250
100x42	105x85	80x60	9x16	40	8x42	92	120	A	**SGDD100SAPN**	250
100x49	105x85	80x60	9x16	45	10x49	90	120	A	**SGDD1000BLN**	350
100x62	135x110	105x80	11x16	50	12x62	100	146	A	**SGDD100LCKN**	750
125x49	105x85	80x60	9x16	45	10x49	102,5	120	A	**SGDD1250BLN**	350
125x62	135x110	105x80	11x16	50	12x62	117	146	B	**SGDD125LCJN**	750
125x62	135x110	105x80	11x16	50	12x62	117	146	C	**SGDD125LCKN**	750
150x49	105x85	80x60	9x16	45	10x49	115	120	A	**SGDD1500BMN**	350
150x62	135x110	105x80	11x16	50	12x62	130	146	A	**SGDD1500CJN**	750
160x62	135x110	105x80	11x16	50	12x62	132	146	C	**SGDD1600CIN**	750
160x62	135x110	105x80	11x16	50	12x62	132	146	B	**SGDD1600CVN**	750
175x62	135x110	105x80	11x16	50	12x62	140	146	C	**SGDD1750CYN**	750
180x62	135x110	105x80	11x16	55	12x62	142	146	C	**SGDD1800CIN**	750
180x62	135x110	105x80	11x16	55	12x62	142	146	B	**SGDD1800CVN**	750
200x62	135x110	105x80	11x16	55	12x62	152	146	B	**SGDD2000CGN**	750
200x62	135x110	105x80	11x16	55	12x62	152	146	C	**SGDD2000CWN**	750

fisso piastra / *fixed castor*

						COD	
80x42	105x85	80x60	9x16	8x42	78	**SFX01000A0**	250
100x42	105x85	80x60	9x16	8x42	92	**SFX0125SA0**	250
100x49	105x85	80x60	9x16	10x49	90	**SFD01000B0**	350
100x62	135x110	105x80	11x16	12x62	100	**SFD0100LC0**	750
125x49	105x85	80x60	9x16	10x49	102,5	**SFD01250B0**	350
125x62	135x110	105x80	11x16	12x62	117	**SFD0125LC0**	1300
150x49	105x85	80x60	9x16	10x49	115	**SFD01500B0**	350
160x62	135x110	105x80	11x16	12x62	132	**SFD01600C0**	1300
175-180x62	135x110	105x80	11x16	12x62	142	**SFD01800C0**	1300
200x62	135x110	105x80	11x16	12x62	152	**SFD02000C0**	1300

Componenti in acciaio stampato inox AISI 304 di notevole spessore
Rotazione piastra su doppia corona di sfere in acciaio inox AISI 420 stampato e calibrato.
Perno imbullonato alta resistenza per assemblaggio supporto.
Lubrificazione particolare per temperature da -15°C a +280°C.
Freno totale posteriore regolabile.



Stainless steel AISI 304 housing.
Calibrated and lubricated ball race tracks.
Rivetted central pin for assembling.
Special lubrication for use at temperatures from 15°C to +280°C when required.
Adjustable rear total brake.

girevole piastra / *swivel castor*

							COD	daN
125x62	140x110	105x80	12,5	46	12x62	116	**SGY0125DC0**	1300
160x62	140x110	105x80	12,5	52	12x62	130	**SGY0160DC0**	1300
200x62	140x110	105x80	12,5	58	12x62	153	**SGY0200DC0**	1300

girevole piastra freno pedale posteriore / *swivel castor with rear brake foot lever*

								COD	daN
125x62	140x110	105x80	12,5	46	12x62	116	127	**SGYN125DC9**	1300
160x62	140x110	105x80	12,5	52	12x62	130	127	**SGYN160DC9**	1300
200x62	140x110	105x80	12,5	58	12x62	153	127	**SGYN200DC9**	1300

fisso piastra / *fixed castor*

						COD	daN
125x62	135x110	105x80	11x16	12x62	117	**SFD0125LC0**	1300
160x62	135x110	105x80	11x16	12x62	132	**SFD01600C0**	1300
200x62	135x110	105x80	11x16	12x62	153	**SFD02000C0**	1300

Una soluzione innovativa
per i supporti Alte Portate

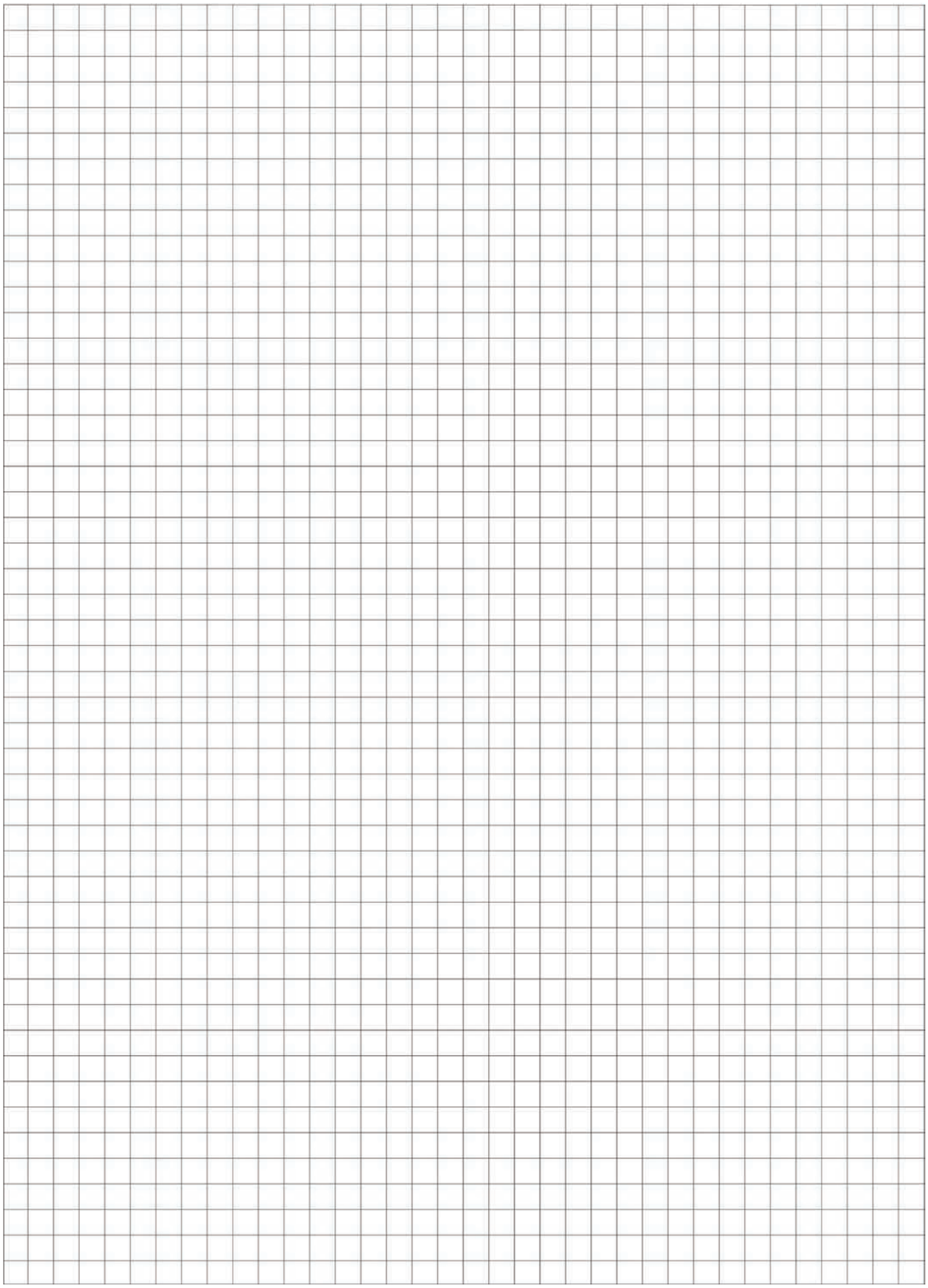
An innovative solution for
Heavy Duty housing

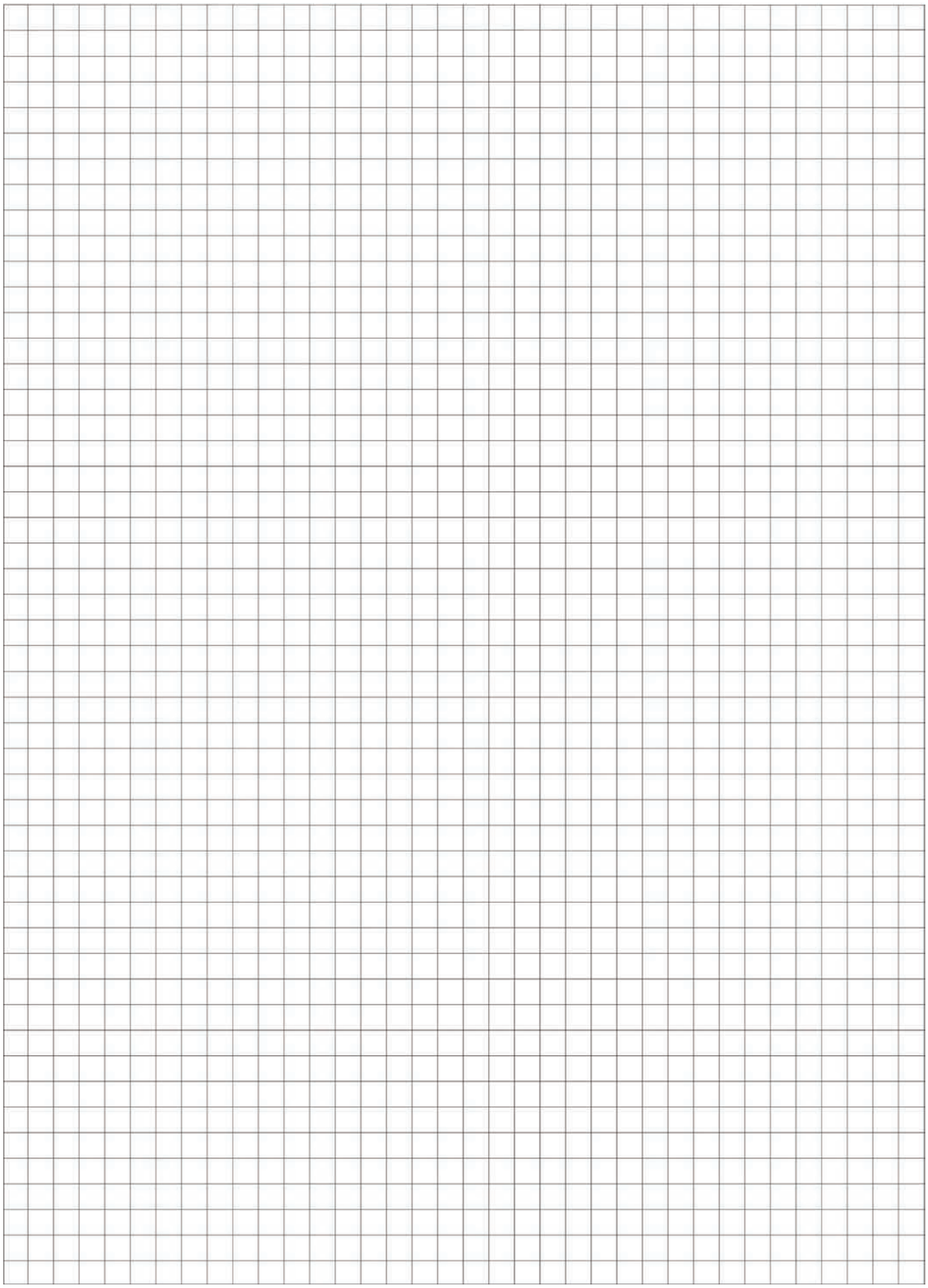
Supporti costruiti con struttura monolitica
in acciaio stampato a freddo e rappresentano
quanto di più innovativo nel settore.

Housing manufactured with cold-pressed steel
with a monolithic structure and represent the most
innovative solution.

Posizionatore a leva di facile azionamento.
Frenatura a pattino con regolazione micrometrica
azionabile mediante volantino.

Directional lock with lever operated with easy lock.
Brake with micrometer regulation .





PESI - WEIGHTS

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
0ATL200062A	5,00	**0AVL400D110A**	17,00	**0LNR100012**	0,35	**0NFT125015**	0,35	**0NNT250A25**	1,49	**0POA080012**	0,14
0ATL200A62A	5,50	**0AVL400E110A**	38,00	**0LNR125015**	0,59	**0NFT125A20**	0,62	**0NNW080A12**	0,17	**0POA100012**	0,25
0ATL200B62A	7,00	**0AVL400F110A**	45,00	**0LNR140015**	0,68	**0NFT150015**	0,43	**0NNW100A15**	0,28	**0POA125015**	0,36
0ATL200C72A	8,50	**0AVL400G110A**	52,00	**0LNR150015**	0,75	**0NFT150A20**	0,79	**0NNW100B20**	0,45	**0POA150B20**	0,59
0ATL250062A	7,00	**0AVL405085A**	52,00	**0LNR160020**	1,04	**0NFT175020**	1,00	**0NNW125B20**	0,50	**0POA200020**	1,08
0ATL250A62A	9,00	**0AVL405A120A**	52,00	**0LNR180020**	1,40	**0NFT200020**	1,17	**0NNW150B20**	0,62	**0PPA080012**	0,06
0ATL250C62A	10,00	**0AVL425010A**	52,00	**0LNR200020**	1,75	**0NFT200025**	1,17	**0NNW175A20**	0,72	**0PPA100012**	0,10
0ATL250D72A	12,00	**0AVL425A12B**	52,00	**0LNR250025**	3,13	**0NFT250025**	1,98	**0NNW200A20**	0,90	**0PPA125015**	0,18
0ATL250E72A	15,00	**0AVL450012A**	52,00	**0LNR250A25**	3,13	**0NGE100L15**	0,32	**0NNX080012**	0,12	**0PPA150015**	0,28
0ATL300062A	8,50	**0AVL500072A**	18,00	**0LNR280025**	4,29	**0NGE125L15**	0,40	**0NNX100012**	0,17	**0PPA150A20**	0,32
0ATL300A62A	11,50	**0AVL500A90B**	22,00	**0LPR200020**	0,90	**0NGE160L20**	1,00	**0NNX125015**	0,29	**0PPA175020**	0,43
0ATL300B72A	13,00	**0AVL500B11A**	33,00	**0LPR3004020**	1,25	**0NGE200020**	1,70	**0NNX150015**	0,36	**0PPA200020**	0,55
0ATL300C72A	15,00	**0AVL500C11A**	33,00	**0LPT200017**	0,90	**0NGR100S12**	0,28	**0NPA080012**	0,12	**0PPR100012**	0,13
0ATL300D90B	23,00	**0AVL500D11A**	52,00	**0LPT3004020**	1,25	**0NGT125L15**	0,40	**0NPA100012**	0,18	**0PPR125015**	0,21
0ATL300F90B	27,00	**0AVL500E11C**	52,00	**0LQR200020**	1,75	**0NGT160L20**	1,00	**0NPA125015**	0,27	**0RFA050A12**	0,05
0ATL350072A	14,00	**0AVL500F11A**	75,00	**0LWR125015**	0,59	**0NGT200020**	1,70	**0NPA125A20**	0,36	**0RFA060A15**	0,09
0ATL350A90B	17,00	**0AVL520011D**	0,00	**0MPK3004020**	5,00	**0NHT125L15**	0,40	**0NPA150015**	0,38	**0RFD076018**	0,30
0ATL350B90B	17,00	**0AVL5500110D**	0,00	**0MPK3508025**	6,00	**0NHT160L20**	1,00	**0NPA150A20**	0,53	**0RFE063012**	0,17
0ATL350C90B	27,00	**0AVL550A140A**	0,00	**0MPK4006020**	13,20	**0NHT200020**	1,70	**0NPA175020**	0,71	**0RFE076015**	0,25
0ATL350D110A	35,00	**0AVL550B140A**	0,00	**0MPK4008A25**	16,00	**0NHX100L15**	0,32	**0NPA200020**	0,87	**0RFE100015**	0,32
0ATL400090B	17,00	**0AVL550C140A**	0,00	**0MPK4008C30**	4,07	**0NHX100S12**	0,28	**0NPA250025**	1,59	**0RFR076A15**	0,19
0ATL400A90B	20,00	**0AVL6500140A**	0,00	**0MPK5008030**	8,60	**0NHX125L15**	0,40	**0NPE100A15**	0,30	**0RGT125020**	1,70
0ATL400B90B	22,00	**0AVL650A140A**	0,00	**0N5T200045**	3,86	**0NHX160L20**	1,00	**0NPE125A20**	0,38	**0RGT150020**	2,22
0ATL400C110A	35,00	**0AVL7130140A**	0,00	**0N5T250045**	4,90	**0NHX200020**	1,70	**0NPE150A20**	0,55	**0RGT160020**	2,35
0ATL400D110A	43,00	**0AVL713A140A**	0,00	**0N5T300055**	8,56	**0NNA080012**	0,08	**0NPE200020**	0,89	**0RGT180020**	2,77
0ATL500090B	32,00	**0AVL713B160A**	0,00	**0N5T400080**	12,20	**0NNA100012**	0,13	**0NPR080012**	0,16	**0RGT200025**	3,24
0ATL500A90B	35,00	**0AVL713C160A**	0,00	**0NDE100A15**	0,27	**0NNA100A15**	0,20	**0NPR100012**	0,20	**0RGT200A25**	4,78
0ATL500B11A	48,00	**0AVL9140160A**	0,00	**0NDE125A20**	0,50	**0NNA100B20**	0,23	**0NPR125015**	0,31	**0RGT230025**	5,35
0ATL500C11A	57,00	**0AVL914A160A**	0,00	**0NDE150A20**	0,59	**0NNA125015**	0,26	**0NPR150015**	0,40	**0RGT230A30**	5,97
0AVL200052A	3,00	**0DET160012**	1,08	**0NDE175020**	0,73	**0NNA125B20**	0,41	**0NPW100A15**	0,30	**0RGT250025**	5,43
0AVL200A62A	6,00	**0DET200012**	1,51	**0NDE200020**	0,89	**0NNA150015**	0,33	**0NPW125A20**	0,38	**0RGT250A25**	6,06
0AVL200B62A	7,00	**0DHT125B12**	0,85	**0NDR080012**	0,16	**0NNA150A20**	0,44	**0NPW150A20**	0,55	**0RGT250B30**	7,77
0AVL200C62A	8,00	**0DHT160012**	1,04	**0NDR100012**	0,20	**0NNA150B20**	0,50	**0NPW200020**	0,89	**0RGT280030**	8,39
0AVL200D72A	9,00	**0DHT200A12**	1,55	**0NDR125015**	0,31	**0NNA175020**	0,61	**0NPX080012**	0,16	**0RGT300A35**	11,86
0AVL220072B	0,00	**0DKT125012**	0,87	**0NDR150015**	0,46	**0NNA200020**	0,68	**0NPX100012**	0,20	**0RGT400035**	19,42
0AVL250052A	4,00	**0DKT160012**	1,17	**0NDT080012**	0,20	**0NNA200A20**	0,81	**0NPX125015**	0,31	**0RPA3004020**	1,15
0AVL250A62A	5,00	**0DKT200012**	1,53	**0NDT100012**	0,26	**0NNA250A25**	1,45	**0NPX150015**	0,40	**0RPR200020**	0,59
0AVL250B62A	6,00	**0DNT125B12**	0,81	**0NDT100A15**	0,33	**0NNE080A12**	0,17	**0NVA080012**	0,14	**0RPR3004020**	1,25
0AVL250C62A	7,00	**0DNT160012**	1,08	**0NDT125015**	0,35	**0NNE100A15**	0,28	**0NVA100012**	0,25	**0RTA080012**	0,18
0AVL250D72A	7,50	**0DNT200A12**	1,51	**0NDT125A20**	0,62	**0NNE100B20**	0,45	**0NVA125015**	0,36	**0RTA100012**	0,29
0AVL250E72A	10,00	**0EDT125B12**	0,81	**0NDT150015**	0,43	**0NNE125B20**	0,50	**0NVA150015**	0,59	**0RTA125015**	0,48
0AVL300052A	3,80	**0EDT160012**	1,08	**0NDT150A20**	0,79	**0NNE150B20**	0,62	**0NVA200020**	1,08	**0RTB080010**	0,18
0AVL300A62A	6,50	**0EDT200A12**	1,50	**0NDT175020**	1,00	**0NNE175A20**	0,72	**0NVC080012**	0,16	**0RTB100010**	0,29
0AVL300B72A	9,00	**0GBA065012**	0,43	**0NDT200020**	1,17	**0NNE200A20**	0,90	**0NVC100012**	0,27	**0RTB125012**	0,48
0AVL300C72A	12,00	**0GBA080012**	0,63	**0NDT200025**	1,17	**0NNR080012**	0,12	**0NVC125015**	0,38	**0RTZ080010**	0,25
0AVL300D90B	0,00	**0GBA100012**	0,89	**0NDT250025**	1,98	**0NNR100012**	0,17	**0NVC150015**	0,62	**0RTZ100010**	0,36
0AVL300E90C	0,00	**0GBA125015**	1,50	**0NFE100A15**	0,27	**0NNR125015**	0,26	**0NVC200020**	1,13	**0RTZ150020**	1,16
0AVL300F90B	19,00	**0GBK100012B**	1,14	**0NFE125A20**	0,50	**0NNR150015**	0,36	**0NVK080012**	0,16	**0RTZ200020**	1,74
0AVL300G90B	22,00	**0GBK125015B**	1,60	**0NFE150A20**	0,59	**0NNT100B20**	0,46	**0NVK100012**	0,27	**0RWT080012**	0,60
0AVL350072B	10,00	**0LAR080012**	0,23	**0NFE175020**	0,73	**0NNT100C20**	0,61	**0NVK125015**	0,38	**0RWT100C12**	0,80
0AVL350A62A	10,00	**0LAR100012**	0,35	**0NFE200020**	0,89	**0NNT125B20**	0,55	**0NVK150015**	0,62	**0RWT100F20**	1,54
0AVL350B72A	12,00	**0LAR125015**	0,59	**0NFR080012**	0,16	**0NNT125C20**	0,78	**0NVK200020**	1,13	**0RWT100G15**	0,95
0AVL350C90B	18,00	**0LGR080012**	0,23	**0NFR100012**	0,20	**0NNT150B20**	0,70	**0PGA080012**	0,12	**0RWT125A15**	1,07
0AVL350D90B	30,00	**0LGR100012**	0,35	**0NFR125015**	0,31	**0NNT150C20**	0,98	**0PGA100012**	0,23	**0RWT125D20**	1,70
0AVL400062A	14,00	**0LGR125015**	0,59	**0NFR150015**	0,46	**0NNT175020**	0,90	**0PGA125015**	0,43	**0RWT150015**	1,61
0AVL400A72A	17,00	**0LGR150015**	0,75	**0NFT080012**	0,20	**0NNT200A20**	1,00	**0PGA160020**	0,74	**0RWT150A20**	1,91
0AVL400B72A	17,00	**0LGR160020**	1,04	**0NFT100012**	0,26	**0NNT200B25**	1,49	**0PGA180020**	0,99	**0RWT150B20**	2,61
0AVL400C90B	17,00	**0LNR080012**	0,23	**0NFT100A15**	0,33	**0NNT250025**	1,73	**0PGA200020**	1,29	**0RWT150D20**	2,58

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
0RWT175020	2,85	0TRO4008E62	15,94	1DET2000G1MPV	3,87	1GBA0650FI0	0,72	1LNR1600GRI	2,78	1NDE125AGTD	3,20
0RWT180025	3,14	0TRO4008W62	15,94	1DHN0800FI0PN	0,48	1GBA0650GR0B	1,03	1LNR1600QR0	2,24	1NDE125AGV0	3,18
0RWT200A20	3,93	0TRO4008Z62	16,00	1DHN0800GR0PN	0,75	1GBA0800FI0	0,98	1LNR1600QRI	2,48	1NDE125AGVN	3,58
0RWT200C25	3,93	0TRO5008W62	19,56	1DHN0800GRIPN	0,88	1GBA0800FT0B	1,10	1LNR1800FI0	2,55	1NDE125AQR0	1,61
0RWT200H25	3,93	0TRO5008Z62	19,56	1DHN0800QR0PN	0,64	1GBA0800GR0B	1,23	1LNR1800GR0	2,94	1NDE125AQRI	1,85
0RWT200Y30	7,79	0TRO6009Z62	30,10	1DHN1000FI0PN	0,60	1GBA0800GT0B	1,40	1LNR1800GRI	3,19	1NDE150AFH0	2,42
0RWT250A25	6,49	0TWK035006	0,08	1DHN1000GR0PN	0,85	1GBA1000FI0	1,24	1LNR1800QR0	2,65	1NDE150AFI0	1,69
0RWT250E25	7,00	0TWK035A08	0,08	1DHN1000GRIPN	0,98	1GBA1000FT0B	1,42	1LNR1800QRI	2,90	1NDE150AFM0	1,95
0RWT250Y30	11,19	0TWK045006	0,18	1DHN1000QR0PN	0,74	1GBA1000GR0B	1,49	1LNR2000FI0	2,98	1NDE150AFP0	2,42
0RWT300C30	11,48	0TWK055006	0,32	1DHN1250FI0PN	1,16	1GBA1000GT0B	1,73	1LNR2000GR0	3,32	1NDE150AFT0	2,03
0RWT300E35	13,12	0TWT070015	0,87	1DHN1250GR0PN	1,51	1GBA1250FI0	1,97	1LNR2000GRI	3,57	1NDE150AFV0	2,47
0RWT400040	31,20	0TWT080020	0,70	1DHN1250GRIPN	1,55	1GBA1250FT0B	2,28	1LNR2000QR0	3,00	1NDE150AGH0	3,08
0RWT500040	49,20	0TWT080A20	0,75	1DHN1250QR0PN	1,33	1GBA1250GR0B	2,25	1LNR2000QRI	3,25	1NDE150AGHR	3,42
0SPR080008	0,11	0TWT080B20	0,90	1DHT125BFI0PN	1,36	1GBA1250GT0B	2,54	1LNR2500FM0	5,73	1NDE150AGM0	2,27
0SPR100008	0,18	0TWT080C20	0,98	1DHT125BGR0PN	1,64	1GBK1000FI0	1,49	1LNR2500GM0	7,11	1NDE150AGMI	2,51
0SPR125010	0,29	0TWT080D20	1,05	1DHT125BGRIPN	1,79	1GBK1000FT0B	1,67	1LNR250AFM0	4,44	1NDE150AGMP	2,51
0SPR160012	0,52	0TWT082020	0,65	1DHT125BQR0PN	1,53	1GBK1000GR0B	1,74	1LNR250AGM0	4,79	1NDE150AGP0	2,42
0SPR200012	0,81	0TWT082A20	0,65	1DHT1600FI0PN	2,24	1GBK1000GT0B	1,98	1LNR250AGMI	5,03	1NDE150AGPN	3,42
0TJT044012	0,07	0TWT082B20	0,68	1DHT1600GR0PN	2,64	1GBK1250FI0	2,07	1LNR2800FM0	6,89	1NDE150AGR0	2,09
0TJT072020	0,21	0TWT082C20	0,70	1DHT1600GRIPN	2,89	1GBK1250FT0B	2,38	1LNR2800GM0	8,27	1NDE150AGRI	2,33
0TJT080A20	0,45	0TWT082D20	0,72	1DHT1600QR0PN	2,34	1GBK1250GR0B	2,35	1LPR2000FI0	2,13	1NDE150AGT0	2,82
0TJT080D20	0,62	0TWT085020	0,76	1DHT200AFI0PN	2,85	1GBK1250GT0B	2,64	1LPR2000GR0	2,48	1NDE150AGTD	3,05
0TJT082020	0,36	0TWT085A20	0,85	1DHT200AGR0PN	3,62	1LAR0800FI0	0,53	1LPR30040FM0	4,20	1NDE150AGV0	3,37
0TJT082A20	0,37	0TWT085B20	1,01	1DHT200AGRIPN	3,87	1LAR0800GR0	0,80	1LPR30040GM0	5,58	1NDE150AGVN	3,87
0TJT082B20	0,40	0TWT085C20	1,05	1DHT200AQR0PN	3,30	1LAR0800QR0	0,69	1LPT2000FI0	2,13	1NDE150AQR0	1,75
0TJT082C20	0,42	0TWT085D20	1,17	1DKT1250FH0PN	2,64	1LAR1000FI0	0,70	1LPT2000GR0	2,48	1NDE150AQRI	1,75
0TJT082D20	0,46	0ZFT100015	0,55	1DKT1250FI0PN	0,87	1LAR1000GR0	0,95	1LPT30040FM0	4,20	1NDE1750FH0	2,83
0TJT082F20	0,43	0ZFT125020	0,92	1DKT1250FP0PN	2,54	1LAR1000QR0	0,84	1LPT30040GM0	5,58	1NDE1750FI0	1,88
0TJT085A20	0,55	0ZFT160020	1,32	1DKT1250GH0PN	3,35	1LAR1250FI0	1,06	1NDE100AFG0	0,97	1NDE1750FM0	2,19
0TJT085B20	0,62	0ZFT160A12	1,32	1DKT1250GHRPN	3,69	1LAR1250GR0	1,34	1NDE100AFI0	0,69	1NDE1750FT0	2,50
0TJT085C20	0,64	0ZFT180020	1,53	1DKT1250GP0PN	3,25	1LAR1250QR0	1,23	1NDE100AFT0	1,33	1NDE1750FV0	3,01
0TJT085D20	0,69	0ZFT200020	1,94	1DKT1250GPNPN	3,56	1LNR0800FI0	0,53	1NDE100AFV0	1,06	1NDE1750GH0	3,37
0TRK1548Z30	13,30	0ZFT200A25	1,90	1DKT1250GR0PN	1,15	1LNR0800GR0	0,80	1NDE100AGG0	1,03	1NDE1750GHR	3,71
0TRK200020	5,60	0ZFT250025	2,90	1DKT1250GRIPN	1,15	1LNR0800GRI	0,93	1NDE100AGR0	0,95	1NDE1750GM0	2,48
0TRK3004B20	6,15	0ZPT080012	0,20	1DKT1250QR0PN	1,04	1LNR0800QR0	0,69	1NDE100AGRI	1,10	1NDE1750GMI	2,72
0TRK3004F25	6,15	0ZPT100012	0,46	1DKT1250QRIPN	1,04	1LNR0800QRI	0,82	1NDE100AGT0	1,73	1NDE1750GMP	2,72
0TRK3004N25	5,40	0ZPT100A15	0,53	1DKT1600FH0PN	3,17	1LNR1000FI0	0,70	1NDE100AGTD	1,86	1NDE1750GR0	2,28
0TRK3006A20	5,77	0ZPT100C20	0,62	1DKT1600FI0PN	2,10	1LNR1000GR0	0,95	1NDE100AGV0	1,36	1NDE1750GRI	2,52
0TRK4004N20	8,62	0ZPT125015	0,44	1DKT1600FP0PN	3,12	1LNR1000GRI	1,10	1NDE100AGVN	1,76	1NDE1750GT0	2,39
0TRK4004Y20	8,70	0ZPT125C20	0,82	1DKT1600GH0PN	3,83	1LNR1000QR0	0,84	1NDE100AQG0	1,01	1NDE1750GTD	3,12
0TRK4006A20	8,70	0ZPT150020	0,96	1DKT1600GHRPN	4,17	1LNR1000QRI	0,99	1NDE100AQR0	0,85	1NDE1750GV0	3,71
0TRK4006N20	13,00	0ZPT160020	1,27	1DKT1600GP0PN	4,12	1LNR1250FI0	1,06	1NDE100AQRI	1,00	1NDE1750GVN	4,21
0TRK4008E30	17,82	0ZPT200025	1,72	1DKT1600GPNPN	4,12	1LNR1250GR0	1,34	1NDE125AFH0	2,20	1NDE1750QR0	1,98
0TRK4008W30	17,82	0ZPT250025	2,71	1DKT1600GR0PN	2,50	1LNR1250GRI	1,49	1NDE125AFI0	1,46	1NDE1750QRI	2,22
0TRK4008Y30	18,00	0ZVT100015	0,55	1DKT1600GRIPN	2,50	1LNR1250QR0	1,23	1NDE125AFM0	1,74	1NDE2000FH0	2,99
0TRK4008Z30	16,05	0ZVT125020	0,92	1DKT1600QR0PN	2,16	1LNR1250QRI	1,48	1NDE125AFP0	2,20	1NDE2000FI0	2,12
0TRK5008W30	21,49	0ZVT160020	1,32	1DKT1600QRIPN	2,16	1LNR1400FI0	1,19	1NDE125AFT0	2,41	1NDE2000FM0	2,44
0TRK5008Z30	21,49	0ZVT160A12	1,32	1DKT2000FH0PN	4,06	1LNR1400GR0	1,46	1NDE125AFV0	2,46	1NDE2000FP0	2,99
0TRK6009Z35	32,05	0ZVT180020	1,53	1DKT2000FI0PN	2,92	1LNR1400GRI	1,60	1NDE125AGH0	2,91	1NDE2000FT0	2,66
0TRO1548Z62	12,50	0ZVT200020	1,94	1DKT2000FP0PN	3,84	1LNR1400QR0	1,35	1NDE125AGHR	3,25	1NDE2000FV0	3,17
0TRO200040	4,60	0ZVT200A25	1,90	1DKT2000GH0PN	4,60	1LNR1400QRI	1,49	1NDE125AGM0	2,12	1NDE2000GH0	3,53
0TRO3004B40	5,15	0ZVT250025	2,90	1DKT2000GHRPN	4,94	1LNR1500FI0	1,26	1NDE125AGMI	2,36	1NDE2000GHR	3,87
0TRO3004N40	5,15	0ZVT300A30	4,30	1DKT2000GP0PN	3,75	1LNR1500GR0	1,53	1NDE125AGMP	2,36	1NDE2000GM0	2,68
0TRO3006A40	7,50	1DET1600F10PV	2,24	1DKT2000GPNPN	4,76	1LNR1500GRI	1,67	1NDE125AGP0	2,20	1NDE2000GMI	2,92
0TRO4004N40	11,70	1DET1600G1LPV	2,64	1DKT2000GR0PN	3,26	1LNR1500QR0	1,42	1NDE125AGPN	3,25	1NDE2000GMP	2,92
0TRO4004Y40	11,70	1DET1600G1MPV	2,64	1DKT2000GRIPN	3,26	1LNR1500QRI	1,56	1NDE125AGR0	1,93	1NDE2000GP0	2,99
0TRO4006A40	6,25	1DET2000F10PV	2,85	1DKT2000QR0PN	2,94	1LNR1600FI0	2,14	1NDE125AGRI	2,17	1NDE2000GPN	3,87
0TRO4006N62	11,57	1DET2000G1LPV	3,62	1DKT2000QRIPN	2,94	1LNR1600GR0	2,54	1NDE125AGT0	2,97	1NDE2000GR0	2,47

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
1NDE2000GRI	2,71	1NDT0800GTD	1,53	1NDT125AGRI	2,29	1NDT2000FT0	2,94	1NGT125LQR0	1,04	1NNA0800GRI	0,78
1NDE2000GT0	3,33	1NDT0800GV0	1,29	1NDT125AGT0	3,11	1NDT2000FV0	3,45	1NGT125LQRI	1,19	1NNA0800GT0	0,87
1NDE2000GTD	3,56	1NDT0800GVN	1,69	1NDT125AGTD	3,32	1NDT2000GH0	3,81	1NGT160LFI0	2,10	1NNA0800GTD	1,00
1NDE2000GV0	3,87	1NDT0800QG0	0,93	1NDT125AGV0	3,30	1NDT2000GHR	4,15	1NGT160LGR0	2,50	1NNA0800GV0	1,11
1NDE2000GVN	4,37	1NDT0800QR0	0,66	1NDT125AGVN	3,70	1NDT2000GM0	2,96	1NGT160LGRI	2,74	1NNA0800GVN	1,51
1NDE2000QR0	2,16	1NDT0800QRI	0,80	1NDT125AQR0	1,73	1NDT2000GMI	3,20	1NGT160LQR0	2,16	1NNA0800GX0	0,65
1NDE2000QRI	2,40	1NDT1000FI0	0,61	1NDT125AQRI	1,97	1NDT2000GMP	3,20	1NGT160LQRI	2,40	1NNA0800GXI	0,78
1NDR0800FI0	0,46	1NDT1000FT0	1,22	1NDT1500FI0	0,94	1NDT2000GP0	3,81	1NGT2000FI0	2,92	1NNA0800QR0	0,54
1NDR0800FT0	1,06	1NDT1000FV0	1,05	1NDT1500FT0	2,10	1NDT2000GPN	3,81	1NGT2000GR0	3,26	1NNA0800QRI	0,67
1NDR0800FV0	0,95	1NDT1000GR0	0,86	1NDT1500GR0	1,20	1NDT2000GR0	2,75	1NGT2000GRI	3,50	1NNA0800QX0	0,54
1NDR0800GR0	0,73	1NDT1000GRI	0,99	1NDT1500GRI	1,35	1NDT2000GRI	2,99	1NGT2000QR0	2,94	1NNA0800QXI	0,67
1NDR0800GRI	0,86	1NDT1000GT0	1,54	1NDT1500GT0	2,24	1NDT2000GT0	3,61	1NGT2000QRI	3,18	1NNA1000FD0	0,62
1NDR0800GT0	1,36	1NDT1000GTD	1,67	1NDT1500GTD	2,36	1NDT2000GTD	3,84	1NHT125LFX0	0,87	1NNA1000FI0	0,49
1NDR0800GTD	1,49	1NDT1000GV0	1,35	1NDT1500QR0	1,09	1NDT2000GV0	4,15	1NHT125LGX0	1,15	1NNA1000FT0	0,66
1NDR0800GV0	1,25	1NDT1000GVN	1,75	1NDT1500QRI	1,24	1NDT2000GVN	4,65	1NHT125LGXI	1,30	1NNA1000FV0	0,88
1NDR0800GVN	1,65	1NDT1000QR0	0,75	1NDT150AFH0	2,62	1NDT2000QR0	2,44	1NHT125LGXL	1,30	1NNA1000FX0	0,49
1NDR0800QR0	0,62	1NDT1000QRI	0,89	1NDT150AFI0	1,89	1NDT2000QRI	2,68	1NHT125LGXM	1,40	1NNA1000GD0	1,08
1NDR0800QRI	0,85	1NDT100AFG0	1,03	1NDT150AFM0	2,15	1NDT2500FH0	3,64	1NHT125LQX0	1,04	1NNA1000GDD	1,21
1NDR1000FI0	0,55	1NDT100AFI0	0,75	1NDT150AFP0	2,62	1NDT2500FM0	4,58	1NHT125LQXI	1,19	1NNA1000GR0	0,75
1NDR1000FT0	1,16	1NDT100AFT0	1,39	1NDT150AFT0	2,07	1NDT2500FP0	3,64	1NHT160LFX0	2,10	1NNA1000GRI	0,88
1NDR1000FV0	0,99	1NDT100AFV0	1,12	1NDT150AFV0	2,67	1NDT2500FV0	6,80	1NHT160LGX0	2,50	1NNA1000GT0	0,97
1NDR1000GR0	0,80	1NDT100AGG0	1,09	1NDT150AGH0	3,28	1NDT2500GH0	5,28	1NHT160LGXI	2,74	1NNA1000GTD	1,10
1NDR1000GRI	0,93	1NDT100AGR0	1,01	1NDT150AGHR	3,62	1NDT2500GHR	5,62	1NHT160LGXL	2,50	1NNA1000GV0	1,18
1NDR1000GT0	1,48	1NDT100AGRI	1,16	1NDT150AGM0	2,47	1NDT2500GM0	5,96	1NHT160LGXM	2,74	1NNA1000GVN	1,58
1NDR1000GTD	1,61	1NDT100AGT0	1,79	1NDT150AGMI	2,71	1NDT2500GP0	5,28	1NHT160LQX0	2,16	1NNA1000GX0	0,75
1NDR1000GV0	1,29	1NDT100AGTD	1,92	1NDT150AGMP	2,71	1NDT2500GPN	5,28	1NHT160LQXI	2,40	1NNA1000GXI	0,88
1NDR1000GVN	1,69	1NDT100AGV0	1,42	1NDT150AGP0	3,28	1NDT2500GV0	6,80	1NHT2000FX0	2,92	1NNA1000QR0	0,64
1NDR1000QR0	0,69	1NDT100AGVN	1,82	1NDT150AGPN	3,28	1NDT2500GVN	6,80	1NHT2000GX0	3,26	1NNA1000QRI	0,77
1NDR1000QRI	0,83	1NDT100AQG0	1,07	1NDT150AGR0	2,29	1NGE100LFI0	0,65	1NHT2000GXI	3,50	1NNA1000QX0	0,64
1NDR1250FI0	0,78	1NDT100AQR0	0,91	1NDT150AGRI	2,53	1NGE100LGR0	0,90	1NHT2000GXL	3,40	1NNA1000QXI	0,77
1NDR1250FT0	1,47	1NDT100AQRI	1,06	1NDT150AGT0	3,02	1NGE100LGRI	1,02	1NHT2000GXM	3,50	1NNA100AFD0	1,28
1NDR1250FV0	2,30	1NDT1250FI0	0,84	1NDT150AGTD	3,07	1NGE100LQR0	0,80	1NHT2000QX0	2,94	1NNA100AFG0	0,90
1NDR1250GG0	1,10	1NDT1250FT0	1,51	1NDT150AGV0	3,57	1NGE100LQRI	0,92	1NHT2000QXI	3,18	1NNA100AFI0	0,62
1NDR1250GR0	1,06	1NDT1250FV0	2,34	1NDT150AGVN	4,07	1NGE125LFI0	0,87	1NHX100SFX0	0,61	1NNA100AFT0	0,76
1NDR1250GRI	1,21	1NDT1250GG0	1,14	1NDT150AQR0	1,95	1NGE125LGR0	1,15	1NHX100SGX0	0,75	1NNA100AFV0	0,99
1NDR1250GT0	1,76	1NDT1250GR0	1,10	1NDT150AQRI	2,19	1NGE125LGRI	1,30	1NHX100SGXI	0,89	1NNA100AFX0	0,62
1NDR1250GTD	1,90	1NDT1250GRI	1,25	1NDT1750FH0	3,10	1NGE125LGRIPL	1,30	1NHX100SQX0	0,76	1NNA100AGD0	1,66
1NDR1250GV0	3,00	1NDT1250GT0	1,89	1NDT1750FI0	2,15	1NGE125LQR0	1,04	1NHX100SQXI	0,88	1NNA100AGDD	1,90
1NDR1250GVN	3,40	1NDT1250GTD	1,94	1NDT1750FM0	2,46	1NGE125LQRI	1,19	1NHX125LFX0	0,87	1NNA100AGG0	0,96
1NDR1250QG0	1,08	1NDT1250GV0	3,04	1NDT1750FT0	2,77	1NGE160LFI0	2,10	1NHX125LGX0	1,15	1NNA100AGR0	0,88
1NDR1250QR0	0,95	1NDT1250GVN	3,44	1NDT1750FV0	3,28	1NGE160LGR0	2,50	1NHX125LGXI	1,30	1NNA100AGRI	1,03
1NDR1250QRI	1,10	1NDT1250QG0	1,12	1NDT1750GH0	3,64	1NGE160LGRI	2,74	1NHX125LQX0	1,04	1NNA100AGT0	1,09
1NDR1500FI0	0,91	1NDT1250QR0	0,99	1NDT1750GHR	3,98	1NGE160LQR0	2,16	1NHX125LQXI	1,19	1NNA100AGTD	1,21
1NDR1500FT0	2,00	1NDT1250QRI	1,14	1NDT1750GM0	2,75	1NGE160LQRI	2,40	1NHX160LFX0	2,10	1NNA100AGV0	1,29
1NDR1500GR0	1,17	1NDT125AFH0	2,32	1NDT1750GMI	2,99	1NGE2000FI0	2,92	1NHX160LGX0	2,50	1NNA100AGVN	1,69
1NDR1500GRI	1,32	1NDT125AFI0	1,58	1NDT1750GMP	2,99	1NGE2000FI0PL	2,92	1NHX160LGXI	2,74	1NNA100AGX0	0,88
1NDR1500GT0	2,27	1NDT125AFM0	1,86	1NDT1750GR0	2,55	1NGE2000GR0	3,26	1NHX160LQX0	2,16	1NNA100AGXI	1,03
1NDR1500GTD	2,40	1NDT125AFP0	2,32	1NDT1750GRI	2,79	1NGE2000GRI	3,50	1NHX160LQXI	2,40	1NNA100AQG0	0,94
1NDR1500QR0	1,06	1NDT125AFT0	2,53	1NDT1750GT0	2,66	1NGE2000QR0	2,94	1NHX2000FX0	2,92	1NNA100AQR0	0,77
1NDR1500QRI	1,21	1NDT125AFV0	2,58	1NDT1750GTD	3,49	1NGE2000QRI	3,18	1NHX2000GX0	3,26	1NNA100AQRI	0,92
1NDT0800FG0	0,89	1NDT125AGH0	3,03	1NDT1750GV0	3,98	1NGR100SFI0	0,61	1NHX2000GXI	3,50	1NNA100AQX0	0,77
1NDT0800FI0	0,50	1NDT125AGHR	3,37	1NDT1750GVN	4,48	1NGR100SGR0	0,75	1NHX2000QX0	2,94	1NNA100AQXI	0,92
1NDT0800FT0	1,10	1NDT125AGM0	2,24	1NDT1750QR0	2,25	1NGR100SGRI	0,89	1NHX2000QXI	3,18	1NNA100BFD0	1,36
1NDT0800FV0	0,99	1NDT125AGMI	2,48	1NDT1750QRI	2,49	1NGR100SQR0	0,76	1NNA0800FI0	0,38	1NNA100BFH0	1,84
1NDT0800GG0	0,95	1NDT125AGMP	2,48	1NDT2000FH0	3,27	1NGR100SQRI	0,88	1NNA0800FT0	0,57	1NNA100BFI0	1,25
1NDT0800GR0	0,77	1NDT125AGP0	3,03	1NDT2000FI0	2,40	1NGT125LFI0	0,87	1NNA0800FV0	0,81	1NNA100BFT0	1,40
1NDT0800GRI	0,90	1NDT125AGPN	3,03	1NDT2000FM0	2,72	1NGT125LGR0	1,15	1NNA0800FX0	0,38	1NNA100BFV0	1,02
1NDT0800GT0	1,40	1NDT125AGR0	2,05	1NDT2000FP0	3,27	1NGT125LGRI	1,30	1NNA0800GR0	0,65	1NNA100BFX0	1,25

PESI - WEIGHTS

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
1NNA100BGD0	1,69	1NNA125BGX0	1,80	1NNA150BGT0	2,73	1NNA200AGV0	3,79	1NNE125BFM0	1,72	1NNE175AGRI	2,45
1NNA100BGDD	1,93	1NNA125BGXI	2,04	1NNA150BGTD	2,95	1NNA200AGVN	4,29	1NNE125BFP0	2,18	1NNE175AGT0	2,88
1NNA100BGH0	2,66	1NNA125BQR0	1,45	1NNA150BGV0	3,28	1NNA200AGX0	2,39	1NNE125BFT0	1,86	1NNE175AGTD	3,10
1NNA100BGR0	1,67	1NNA125BQRI	1,69	1NNA150BGVN	3,78	1NNA200AGXI	2,63	1NNE125BFV0	2,44	1NNE175AGV0	3,64
1NNA100BGRI	1,91	1NNA125BQX0	1,45	1NNA150BQRI	1,96	1NNA200AQR0	2,08	1NNE125BGE0	7,12	1NNE175AGVN	4,15
1NNA100BGT0	2,19	1NNA125BQXI	1,69	1NNA1750FE0	4,76	1NNA200AQRI	2,32	1NNE125BGH0	2,89	1NNE175AQR0	1,91
1NNA100BGTD	2,41	1NNA1500FD0	1,06	1NNA1750FH0	2,64	1NNA200AQX0	2,08	1NNE125BGHR	3,23	1NNE175AQRI	2,15
1NNA100BGV0	1,39	1NNA1500FI0	0,89	1NNA1750FI0	1,73	1NNA200AQXI	2,32	1NNE125BGM0	2,10	1NNE200AFE0	5,28
1NNA100BGVN	1,79	1NNA1500FT0	1,07	1NNA1750FM0	2,04	1NNA250AFH0	3,06	1NNE125BGMI	2,34	1NNE200AFH0	3,00
1NNA100BGX0	1,67	1NNA1500FX0	0,89	1NNA1750FT0	2,16	1NNA250AFM0	2,76	1NNE125BGMP	2,10	1NNE200AFI0	2,13
1NNA100BGXI	1,91	1NNA1500GD0	1,36	1NNA1750FV0	2,49	1NNA250AGH0	4,70	1NNE125BGP0	2,89	1NNE200AFM0	2,45
1NNA100BQR0	1,34	1NNA1500GDD	1,49	1NNA1750GE0	7,29	1NNA250AGHR	5,04	1NNE125BGPN	3,23	1NNE200AFP0	3,00
1NNA100BQRI	1,58	1NNA1500GR0	1,15	1NNA1750GH0	3,10	1NNA250AGM0	3,11	1NNE125BGR0	1,94	1NNE200AFT0	2,67
1NNA100BQX0	1,34	1NNA1500GRI	1,30	1NNA1750GHR	3,44	1NNA250AGMI	3,35	1NNE125BGRI	2,18	1NNE200AFV0	3,18
1NNA100BQXI	1,58	1NNA1500GT0	1,35	1NNA1750GM0	2,33	1NNE080AFG0	0,86	1NNE125BGT0	2,55	1NNE200AGE0	7,88
1NNA1250FD0	0,96	1NNA1500GTD	1,48	1NNA1750GMI	2,57	1NNE080AFI0	0,46	1NNE125BGTD	2,74	1NNE200AGH0	3,54
1NNA1250FI0	0,72	1NNA1500GX0	1,15	1NNA1750GR0	2,13	1NNE080AFT0	0,66	1NNE125BGV0	3,16	1NNE200AGHR	3,88
1NNA1250FT0	0,96	1NNA1500GXI	1,30	1NNA1750GRI	2,37	1NNE080AFV0	0,90	1NNE125BGVN	3,56	1NNE200AGM0	2,69
1NNA1250FV0	1,40	1NNA1500QR0	1,04	1NNA1750GT0	2,77	1NNE080AGG0	0,92	1NNE125BQR0	1,59	1NNE200AGMI	2,93
1NNA1250FX0	0,72	1NNA1500QRI	1,19	1NNA1750GTD	2,99	1NNE080AGR0	0,73	1NNE125BQRI	1,83	1NNE200AGMP	2,69
1NNA1250GD0	1,25	1NNA1500QX0	1,04	1NNA1750GV0	3,56	1NNE080AGRI	0,86	1NNE150BFE0	4,71	1NNE200AGP0	3,54
1NNA1250GDD	1,38	1NNA1500QXI	1,19	1NNA1750GVN	4,09	1NNE080AGT0	0,96	1NNE150BFH0	2,39	1NNE200AGPN	3,88
1NNA1250GG0	1,05	1NNA150AFE0	4,59	1NNA1750QR0	1,83	1NNE080AGTD	1,09	1NNE150BFI0	1,66	1NNE200AGR0	2,48
1NNA1250GR0	1,00	1NNA150AFH0	2,12	1NNA1750QRI	2,07	1NNE080AGV0	1,20	1NNE150BFM0	1,92	1NNE200AGRI	2,72
1NNA1250GRI	1,15	1NNA150AFI0	1,60	1NNA2000FH0	2,78	1NNE080AGVN	1,60	1NNE150BFP0	2,39	1NNE200AGT0	3,34
1NNA1250GT0	1,25	1NNA150AFT0	1,90	1NNA2000FI0	1,98	1NNE080AQG0	0,90	1NNE150BFT0	2,08	1NNE200AGTD	3,56
1NNA1250GTD	1,38	1NNA150AFV0	2,32	1NNA2000FT0	2,45	1NNE080AQR0	0,62	1NNE150BFV0	2,44	1NNE200AGV0	3,88
1NNA1250GV0	1,70	1NNA150AFX0	1,60	1NNA2000FV0	2,96	1NNE080AQRI	0,75	1NNE150BGE0	7,35	1NNE200AGVN	4,38
1NNA1250GVN	2,10	1NNA150AGE0	7,12	1NNA2000GH0	3,32	1NNE100AFG0	0,98	1NNE150BGH0	3,05	1NNE200AQR0	2,17
1NNA1250GX0	1,00	1NNA150AGH0	2,93	1NNA2000GHR	3,66	1NNE100AFI0	0,69	1NNE150BGHR	3,39	1NNE200AQRI	2,41
1NNA1250GXI	1,15	1NNA150AGHR	3,27	1NNA2000GR0	2,33	1NNE100AFT0	0,84	1NNE150BGM0	2,24	1NNR0800FI0	0,38
1NNA1250QG0	1,03	1NNA150AGR0	2,00	1NNA2000GRI	2,57	1NNE100AFV0	1,06	1NNE150BGMI	2,48	1NNR0800GR0	0,57
1NNA1250QR0	0,89	1NNA150AGRI	2,24	1NNA2000GT0	3,12	1NNE100AGG0	1,04	1NNE150BGMP	2,24	1NNR0800GRI	0,65
1NNA1250QRI	1,04	1NNA150AGT0	1,56	1NNA2000GTD	3,34	1NNE100AGR0	0,95	1NNE150BGP0	3,05	1NNR0800QR0	0,58
1NNA1250QX0	0,89	1NNA150AGTD	1,68	1NNA2000GV0	3,19	1NNE100AGRI	1,10	1NNE150BGPN	3,39	1NNR0800QRI	0,71
1NNA1250QXI	1,04	1NNA150AGV0	3,20	1NNA2000GVN	4,16	1NNE100AGT0	1,17	1NNE150BGR0	2,06	1NNR1000FI0	0,52
1NNA125BFD0	1,16	1NNA150AGVN	3,49	1NNA2000QR0	2,02	1NNE100AGTD	1,29	1NNE150BGRI	2,30	1NNR1000FT0	0,70
1NNA125BFE0	4,25	1NNA150AGX0	2,00	1NNA2000QRI	2,26	1NNE100AGV0	1,36	1NNE150BGT0	2,85	1NNR1000FV0	0,91
1NNA125BFH0	2,04	1NNA150AGXI	2,24	1NNA200AFD0	2,55	1NNE100AGVN	1,76	1NNE150BGTD	3,07	1NNR1000GR0	0,77
1NNA125BFI0	1,31	1NNA150AQR0	1,66	1NNA200AFE0	5,19	1NNE100AQG0	1,03	1NNE150BGV0	3,34	1NNR1000GRI	0,90
1NNA125BFM0	1,58	1NNA150AQRI	1,90	1NNA200AFH0	2,91	1NNE100AQR0	0,84	1NNE150BGVN	3,84	1NNR1000GT0	1,01
1NNA125BFT0	1,76	1NNA150AQX0	1,66	1NNA200AFI0	2,04	1NNE100AQRI	0,99	1NNE150BQR0	1,72	1NNR1000GTD	1,14
1NNA125BFV0	2,30	1NNA150AQXI	1,90	1NNA200AFM0	2,36	1NNE100BFH0	1,91	1NNE150BQRI	1,96	1NNR1000GV0	1,21
1NNA125BFX0	1,31	1NNA150BFD0	1,12	1NNA200AFT0	2,58	1NNE100BFI0	1,32	1NNE175AFE0	5,04	1NNR1000GVN	1,61
1NNA125BGD0	1,45	1NNA150BFE0	4,65	1NNA200AFV0	3,09	1NNE100BFT0	1,62	1NNE175AFH0	2,76	1NNR1000QR0	0,66
1NNA125BGDD	1,58	1NNA150BFH0	2,33	1NNA200AFX0	2,04	1NNE100BFV0	1,09	1NNE175AFI0	1,81	1NNR1000QRI	0,79
1NNA125BGE0	6,99	1NNA150BFM0	1,86	1NNA200AGD0	3,22	1NNE100BGH0	2,73	1NNE175AFM0	2,12	1NNR1250FI0	0,76
1NNA125BGH0	2,75	1NNA150BFT0	1,96	1NNA200AGDD	3,44	1NNE100BGR0	1,74	1NNE175AFP0	2,15	1NNR1250FT0	0,99
1NNA125BGHR	3,09	1NNA150BFV0	2,38	1NNA200AGE0	7,79	1NNE100BGRI	1,98	1NNE175AFT0	2,27	1NNR1250FV0	1,44
1NNA125BGM0	1,96	1NNA150BGD0	1,42	1NNA200AGH0	3,45	1NNE100BGT0	2,41	1NNE175AFV0	2,94	1NNR1250GR0	1,04
1NNA125BGMI	2,20	1NNA150BGDD	1,79	1NNA200AGHR	3,79	1NNE100BGTD	2,63	1NNE175AGE0	7,64	1NNR1250GRI	1,19
1NNA125BGMP	2,20	1NNA150BGE0	7,18	1NNA200AGM0	2,60	1NNE100BGV0	1,46	1NNE175AGH0	3,30	1NNR1250GT0	1,28
1NNA125BGR0	1,80	1NNA150BGH0	2,99	1NNA200AGMI	2,84	1NNE100BGVN	1,86	1NNE175AGHR	3,64	1NNR1250GTD	1,41
1NNA125BGRI	2,04	1NNA150BGHR	3,33	1NNA200AGMP	2,84	1NNE100BQR0	1,41	1NNE175AGM0	2,41	1NNR1250GV0	1,74
1NNA125BGT0	2,43	1NNA150BGM0	2,18	1NNA200AGR0	2,39	1NNE100BQRI	1,65	1NNE175AGMI	2,65	1NNR1250GVN	2,14
1NNA125BGTD	2,65	1NNA150BGMI	2,42	1NNA200AGRI	2,63	1NNE125BFE0	4,38	1NNE175AGP0	3,92	1NNR1250QR0	0,93
1NNA125BGV0	3,02	1NNA150BGMP	2,42	1NNA200AGT0	3,25	1NNE125BFH0	2,18	1NNE175AGPN	4,42	1NNR1250QRI	1,08
1NNA125BGVN	3,42	1NNA150BGRI	2,30	1NNA200AGTD	3,47	1NNE125BFI0	1,45	1NNE175AGR0	2,21	1NNR1500FI0	0,91

PESI - WEIGHTS

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
1NNR1500FT0	1,10	**1NNT125BGMI**	2,41	**1NNT150BGR0**	2,20	**1NNT200AGD0**	3,41	**1NNW100BGXI**	1,98	**1NNX1500FX0**	0,91
1NNR1500GR0	1,17	**1NNT125BGMP**	2,41	**1NNT150BGRI**	2,44	**1NNT200AGDD**	3,63	**1NNW100BQX0**	1,41	**1NNX1500GD0**	1,35
1NNR1500GRI	1,32	**1NNT125BGP0**	2,96	**1NNT150BGT0**	2,93	**1NNT200AGE0**	7,95	**1NNW100BQXI**	1,65	**1NNX1500GDD**	1,49
1NNR1500GT0	1,38	**1NNT125BGPN**	3,30	**1NNT150BGTD**	3,15	**1NNT200AGH0**	3,61	**1NNW125BFD0**	1,65	**1NNX1500GX0**	1,17
1NNR1500GTD	1,51	**1NNT125BGR0**	2,01	**1NNT150BGV0**	3,48	**1NNT200AGHR**	3,95	**1NNW125BFX0**	1,45	**1NNX1500GXI**	1,32
1NNR1500QR0	1,06	**1NNT125BGRI**	2,01	**1NNT150BGVN**	3,98	**1NNT200AGM0**	2,76	**1NNW125BFY0**	2,18	**1NNX1500QX0**	1,06
1NNR1500QRI	1,21	**1NNT125BGT0**	2,57	**1NNT150BGX0**	2,20	**1NNT200AGMI**	3,00	**1NNW125BGD0**	2,14	**1NNX1500QXI**	1,21
1NNT100BFD0	1,59	**1NNT125BGTD**	2,79	**1NNT150BGXI**	2,44	**1NNT200AGMP**	3,00	**1NNW125BGDD**	2,38	**1NPA0800FD0**	1,02
1NNT100BFH0	1,98	**1NNT125BGV0**	3,29	**1NNT150BGY0**	3,19	**1NNT200AGP0**	3,61	**1NNW125BGX0**	1,94	**1NPA0800FI0**	0,42
1NNT100BFI0	1,39	**1NNT125BGVN**	3,63	**1NNT150BGYN**	3,19	**1NNT200AGPN**	3,95	**1NNW125BGXI**	2,18	**1NPA0800FT0**	1,02
1NNT100BFT0	1,63	**1NNT125BGX0**	2,01	**1NNT150BQR0**	1,86	**1NNT200AGR0**	2,55	**1NNW125BGY0**	2,89	**1NPA0800FX0**	0,42
1NNT100BFV0	1,10	**1NNT125BGXI**	2,25	**1NNT150BQRI**	2,10	**1NNT200AGRI**	2,79	**1NNW125BGYN**	2,89	**1NPA0800GD0**	1,32
1NNT100BFX0	1,39	**1NNT125BGY0**	2,96	**1NNT150BQX0**	1,86	**1NNT200AGT0**	3,44	**1NNW125BQX0**	1,59	**1NPA0800GDD**	1,45
1NNT100BGD0	1,92	**1NNT125BGYN**	2,96	**1NNT150BQXI**	2,10	**1NNT200AGTD**	3,66	**1NNW125BQXI**	1,83	**1NPA0800GR0**	0,69
1NNT100BGDD	2,16	**1NNT125BQR0**	1,66	**1NNT150CFD0**	1,99	**1NNT200AGV0**	3,95	**1NNW150BFD0**	1,86	**1NPA0800GRI**	0,82
1NNT100BGH0	2,80	**1NNT125BQRI**	1,66	**1NNT150CFE0**	5,13	**1NNT200AGVN**	4,45	**1NNW150BFX0**	1,66	**1NPA0800GT0**	1,32
1NNT100BGR0	1,81	**1NNT125BQX0**	1,66	**1NNT150CFH0**	2,81	**1NNT200AGX0**	2,55	**1NNW150BFY0**	2,39	**1NPA0800GTD**	1,45
1NNT100BGRI	1,81	**1NNT125BQXI**	1,90	**1NNT150CFP0**	3,71	**1NNT200AGXI**	2,79	**1NNW150BGD0**	2,26	**1NPA0800GX0**	0,69
1NNT100BGT0	2,42	**1NNT125CFD0**	1,37	**1NNT150CFT0**	2,44	**1NNT200AGY0**	3,61	**1NNW150BGDD**	2,50	**1NPA0800GXI**	0,82
1NNT100BGTD	2,64	**1NNT125CFE0**	4,58	**1NNT150CFV0**	2,79	**1NNT200AGYN**	3,61	**1NNW150BGX0**	2,06	**1NPA0800QR0**	0,58
1NNT100BGV0	1,56	**1NNT125CFH0**	2,25	**1NNT150CFY0**	2,81	**1NNT200AQR0**	2,24	**1NNW150BGXI**	2,30	**1NPA0800QRI**	0,71
1NNT100BGVN	1,93	**1NNT125CFP0**	2,25	**1NNT150CGD0**	2,09	**1NNT200AQRI**	2,48	**1NNW150BGY0**	3,05	**1NPA0800QX0**	0,58
1NNT100BGX0	1,81	**1NNT125CFT0**	2,14	**1NNT150CGDD**	2,32	**1NNT200AQX0**	2,24	**1NNW150BGYN**	3,05	**1NPA0800QXI**	0,71
1NNT100BGXI	2,05	**1NNT125CFV0**	2,64	**1NNT150CGE0**	7,76	**1NNT200AQXI**	2,48	**1NNW150BQX0**	1,72	**1NPA1000FD0**	1,14
1NNT100BQR0	1,48	**1NNT125CFY0**	2,46	**1NNT150CGH0**	3,47	**1NNT2500FE0**	9,95	**1NNW150BQXI**	1,96	**1NPA1000FI0**	0,53
1NNT100BQRI	1,48	**1NNT125CGD0**	1,66	**1NNT150CGHR**	3,71	**1NNT2500FM0**	4,28	**1NNW200AFD0**	2,33	**1NPA1000FT0**	1,14
1NNT100BQX0	1,48	**1NNT125CGDD**	1,79	**1NNT150CGP0**	3,71	**1NNT2500GE0**	14,80	**1NNW200AFX0**	2,13	**1NPA1000FX0**	0,53
1NNT100BQXI	1,72	**1NNT125CGE0**	7,42	**1NNT150CGPN**	3,71	**1NNT2500GM0**	5,66	**1NNW200AFY0**	3,54	**1NPA1000GD0**	1,46
1NNT100CFD0	1,72	**1NNT125CGH0**	2,96	**1NNT150CGT0**	3,21	**1NNT250AFH0**	3,34	**1NNW200AGD0**	2,68	**1NPA1000GDD**	1,59
1NNT100CFH0	2,13	**1NNT125CGHR**	3,30	**1NNT150CGTD**	3,43	**1NNT250AFM0**	2,80	**1NNW200AGDD**	3,98	**1NPA1000GR0**	0,78
1NNT100CFT0	1,78	**1NNT125CGP0**	2,96	**1NNT150CGV0**	3,76	**1NNT250AFP0**	3,34	**1NNW200AGX0**	2,48	**1NPA1000GRI**	0,91
1NNT100CFV0	1,17	**1NNT125CGPN**	3,30	**1NNT150CGVN**	4,19	**1NNT250AGH0**	4,98	**1NNW200AGXI**	2,72	**1NPA1000GT0**	1,46
1NNT100CFY0	3,80	**1NNT125CGT0**	2,80	**1NNT150CGY0**	3,47	**1NNT250AGHR**	5,32	**1NNW200AGY0**	3,54	**1NPA1000GTD**	1,59
1NNT100CGD0	2,07	**1NNT125CGTD**	3,02	**1NNT150CGYN**	3,47	**1NNT250AGM0**	3,15	**1NNW200AGYN**	3,54	**1NPA1000GX0**	0,78
1NNT100CGDD	2,30	**1NNT125CGV0**	3,46	**1NNT1750FE0**	5,05	**1NNT250AGMI**	3,35	**1NNW200AQX0**	2,17	**1NPA1000GXI**	0,91
1NNT100CGH0	2,95	**1NNT125CGVN**	3,76	**1NNT1750FM0**	2,25	**1NNT250AGP0**	4,98	**1NNW200AQXI**	2,41	**1NPA1000QR0**	0,67
1NNT100CGT0	2,57	**1NNT125CGY0**	3,19	**1NNT1750FP0**	2,30	**1NNT250AGPN**	5,32	**1NNX0800FX0**	0,42	**1NPA1000QRI**	0,80
1NNT100CGTD	2,79	**1NNT125CGYN**	3,19	**1NNT1750FT0**	2,16	**1NNW080AFD0**	0,66	**1NNX0800GX0**	0,69	**1NPA1000QX0**	0,67
1NNT100CGV0	1,71	**1NNT150BFD0**	1,59	**1NNT1750FV0**	2,49	**1NNW080AFX0**	0,46	**1NNX0800GXI**	0,82	**1NPA1000QXI**	0,80
1NNT100CGVN	2,08	**1NNT150BFE0**	4,85	**1NNT1750GE0**	7,68	**1NNW080AGD0**	0,93	**1NNX0800QX0**	0,58	**1NPA1250FI0**	0,74
1NNT100CGY0	4,02	**1NNT150BFH0**	2,53	**1NNT1750GM0**	2,49	**1NNW080AGDD**	1,06	**1NNX0800QXI**	0,71	**1NPA1250FT0**	1,43
1NNT100CGYN	4,52	**1NNT150BFI0**	1,80	**1NNT1750GMI**	2,73	**1NNW080AGX0**	0,73	**1NNX1000FD0**	0,70	**1NPA1250FX0**	0,74
1NNT125BFD0	1,24	**1NNT150BFM0**	2,06	**1NNT1750GP0**	4,10	**1NNW080AGXI**	0,86	**1NNX1000FX0**	0,52	**1NPA1250GR0**	1,02
1NNT125BFE0	4,45	**1NNT150BFP0**	2,53	**1NNT1750GPN**	4,60	**1NNW080AQX0**	0,62	**1NNX1000GD0**	0,95	**1NPA1250GRI**	1,17
1NNT125BFH0	2,25	**1NNT150BFT0**	2,16	**1NNT1750GT0**	2,77	**1NNW080AQXI**	0,75	**1NNX1000GDD**	0,96	**1NPA1250GT0**	1,73
1NNT125BFI0	1,52	**1NNT150BFV0**	2,58	**1NNT1750GTD**	2,99	**1NNW100AFD0**	0,89	**1NNX1000GX0**	0,77	**1NPA1250GTD**	1,86
1NNT125BFM0	1,79	**1NNT150BFX0**	1,80	**1NNT1750GV0**	3,56	**1NNW100AFX0**	0,69	**1NNX1000GXI**	0,90	**1NPA1250GX0**	1,02
1NNT125BFP0	2,25	**1NNT150BFY0**	2,53	**1NNT1750GVN**	3,56	**1NNW100AGD0**	1,15	**1NNX1000QX0**	0,66	**1NPA1250GXI**	1,17
1NNT125BFT0	1,91	**1NNT150BGD0**	1,79	**1NNT200AFD0**	2,74	**1NNW100AGDD**	1,30	**1NNX1000QXI**	0,79	**1NPA1250QR0**	0,91
1NNT125BFV0	2,51	**1NNT150BGDD**	1,92	**1NNT200AFE0**	5,35	**1NNW100AGX0**	0,95	**1NNX1250FD0**	0,83	**1NPA1250QRI**	1,06
1NNT125BFX0	1,52	**1NNT150BGE0**	7,48	**1NNT200AFH0**	3,07	**1NNW100AGXI**	1,10	**1NNX1250FX0**	0,76	**1NPA1250QX0**	0,91
1NNT125BFY0	2,25	**1NNT150BGH0**	3,19	**1NNT200AFI0**	2,20	**1NNW100AQX0**	0,84	**1NNX1250GD0**	1,22	**1NPA1250QXI**	1,04
1NNT125BGD0	1,53	**1NNT150BGHR**	3,53	**1NNT200AFM0**	2,52	**1NNW100AQXI**	0,99	**1NNX1250GDD**	1,38	**1NPA125AFD0**	2,51
1NNT125BGDD	1,66	**1NNT150BGM0**	2,38	**1NNT200AFP0**	3,07	**1NNW100BFD0**	1,52	**1NNX1250GX0**	1,04	**1NPA125AFI0**	1,33
1NNT125BGE0	7,19	**1NNT150BGMI**	2,62	**1NNT200AFT0**	2,77	**1NNW100BFX0**	1,32	**1NNX1250GXI**	1,19	**1NPA125AFM0**	1,60
1NNT125BGH0	2,96	**1NNT150BGMP**	2,62	**1NNT200AFV0**	3,25	**1NNW100BGD0**	1,94	**1NNX1250QX0**	0,93	**1NPA125AFT0**	2,51
1NNT125BGHR	3,30	**1NNT150BGP0**	3,19	**1NNT200AFX0**	2,20	**1NNW100BGDD**	2,18	**1NNX1250QXI**	1,08	**1NPA125AFX0**	1,10
1NNT125BGM0	2,17	**1NNT150BGPN**	3,53	**1NNT200AFY0**	3,07	**1NNW100BGX0**	1,74	**1NNX1500FD0**	1,08	**1NPA125AFY0**	2,77

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
1NPA125AGD0	3,07	1NPA1750FM0	2,17	1NPE125AGTD	3,32	1NPR1500QRI	1,21	1NPX1000GXI	0,93	1NVA1250QR0	1,00
1NPA125AGDD	3,30	1NPA1750FT0	2,48	1NPE125AQR0	1,49	1NPW100AFD0	1,36	1NPX1000QX0	0,69	1NVA1250QX0	1,00
1NPA125AGM0	1,98	1NPA1750FY0	2,90	1NPE125AQRI	1,73	1NPW100AFX0	0,69	1NPX1000QXI	0,82	1NVA1250QXI	1,13
1NPA125AGMI	2,22	1NPA1750GD0	2,87	1NPE150AFI0	1,65	1NPW100AGD0	1,76	1NPX1250FX0	0,80	1NVA1500FD0	1,32
1NPA125AGMP	2,22	1NPA1750GDD	3,10	1NPE150AFM0	1,91	1NPW100AGDD	1,89	1NPX1250GX0	1,06	1NVA1500FI0	1,10
1NPA125AGR0	1,79	1NPA1750GM0	2,46	1NPE150AFT0	2,01	1NPW100AGX0	0,95	1NPX1250GXI	1,21	1NVA1500FT0	1,32
1NPA125AGRI	2,03	1NPA1750GMI	2,70	1NPE150AGM0	2,23	1NPW100AGXI	1,10	1NPX1250QX0	0,95	1NVA1500FX0	1,10
1NPA125AGT0	3,07	1NPA1750GMP	2,70	1NPE150AGMI	2,47	1NPW100AQX0	0,87	1NPX1250QXI	1,08	1NVA1500GD0	1,60
1NPA125AGTD	3,30	1NPA1750GR0	2,26	1NPE150AGMP	2,47	1NPW100AQXI	1,02	1NPX1500FD0	1,93	1NVA1500GDD	1,73
1NPA125AGX0	1,64	1NPA1750GRI	2,50	1NPE150AGR0	2,05	1NPW125AFD0	2,53	1NPX1500FX0	0,91	1NVA1500GR0	1,36
1NPA125AGXI	1,88	1NPA1750GT0	2,87	1NPE150AGRI	2,29	1NPW125AFX0	1,12	1NPX1500GD0	2,21	1NVA1500GRI	1,51
1NPA125AGY0	2,77	1NPA1750GTD	3,10	1NPE150AGT0	2,78	1NPW125AFY0	2,79	1NPX1500GDD	2,34	1NVA1500GT0	1,60
1NPA125AGYN	2,77	1NPA1750GY0	3,75	1NPE150AGTD	3,01	1NPW125AGD0	3,09	1NPX1500GX0	1,17	1NVA1500GTD	1,73
1NPA125AQR0	1,47	1NPA1750GYN	4,25	1NPE150AQR0	1,71	1NPW125AGDD	3,32	1NPX1500GXI	1,32	1NVA1500GX0	1,36
1NPA125AQRI	1,71	1NPA1750QR0	1,96	1NPE150AQRI	1,95	1NPW125AGX0	1,66	1NPX1500QX0	1,06	1NVA1500GXI	1,51
1NPA125AQX0	1,37	1NPA1750QRI	2,20	1NPE2000FI0	2,12	1NPW125AGXI	1,90	1NPX1500QXI	1,30	1NVA1500QR0	1,25
1NPA125AQXI	1,61	1NPA2000FD0	2,64	1NPE2000FM0	2,44	1NPW125AGY0	2,79	1NVA0800FD0	0,63	1NVA1500QX0	1,25
1NPA1500FD0	1,91	1NPA2000FI0	2,10	1NPE2000FT0	2,66	1NPW125AGYN	2,79	1NVA0800FI0	0,49	1NVA1500QXI	1,38
1NPA1500FI0	0,89	1NPA2000FM0	2,42	1NPE2000GM0	2,68	1NPW125AQX0	1,49	1NVA0800FT0	0,63	1NVA2000FD0	2,82
1NPA1500FT0	1,91	1NPA2000FT0	2,64	1NPE2000GMI	2,92	1NPW125AQXI	1,63	1NVA0800FX0	0,49	1NVA2000FI0	2,31
1NPA1500FX0	0,89	1NPA2000FX0	1,89	1NPE2000GMP	2,92	1NPW150AFD0	2,01	1NVA0800GD0	0,93	1NVA2000FT0	2,82
1NPA1500GD0	2,19	1NPA2000FY0	3,51	1NPE2000GR0	2,47	1NPW150AFX0	1,46	1NVA0800GDD	1,06	1NVA2000FX0	2,31
1NPA1500GDD	2,32	1NPA2000GD0	3,31	1NPE2000GRI	2,71	1NPW150AFY0	3,02	1NVA0800GR0	0,74	1NVA2000GD0	3,49
1NPA1500GR0	1,15	1NPA2000GDD	3,54	1NPE2000GT0	3,33	1NPW150AGD0	2,78	1NVA0800GRI	0,87	1NVA2000GDD	3,71
1NPA1500GRI	1,30	1NPA2000GM0	2,66	1NPE2000GTD	3,56	1NPW150AGDD	3,01	1NVA0800GT0	0,93	1NVA2000GR0	2,66
1NPA1500GT0	2,19	1NPA2000GMI	2,90	1NPE2000QR0	2,16	1NPW150AGX0	1,97	1NVA0800GTD	1,06	1NVA2000GRI	2,90
1NPA1500GTD	2,32	1NPA2000GMP	2,90	1NPE2000QRI	2,40	1NPW150AGXI	2,21	1NVA0800GX0	0,74	1NVA2000GT0	3,49
1NPA1500GX0	1,15	1NPA2000GR0	2,45	1NPR0800FI0	0,46	1NPW150AGY0	3,02	1NVA0800GXI	0,87	1NVA2000GTD	3,71
1NPA1500GXI	1,30	1NPA2000GRI	2,69	1NPR0800FT0	1,06	1NPW150AGYN	3,02	1NVA0800QR0	0,63	1NVA2000GX0	2,66
1NPA1500QR0	1,04	1NPA2000GT0	3,31	1NPR0800GR0	0,73	1NPW150AQX0	1,77	1NVA0800QX0	0,63	1NVA2000GXI	2,90
1NPA1500QRI	1,19	1NPA2000GTD	3,54	1NPR0800GRI	0,86	1NPW150AQXI	1,97	1NVA0800QXI	0,76	1NVA2000QR0	2,20
1NPA1500QX0	1,04	1NPA2000GX0	2,52	1NPR0800GT0	1,36	1NPW2000FD0	2,66	1NVA1000FD0	0,78	1NVA2000QX0	2,20
1NPA1500QXI	1,28	1NPA2000GXI	2,56	1NPR0800GTD	1,49	1NPW2000FX0	1,91	1NVA1000FI0	0,60	1NVA2000QXI	2,44
1NPA150AFD0	1,99	1NPA2000GY0	3,51	1NPR0800QR0	0,62	1NPW2000FY0	3,53	1NVA1000FT0	0,78	1NVC0800FD0	0,65
1NPA150AFI0	1,63	1NPA2000GYN	3,51	1NPR0800QRI	0,75	1NPW2000GD0	3,33	1NVA1000FX0	0,60	1NVC0800FX0	0,51
1NPA150AFM0	1,89	1NPA2000QR0	2,14	1NPR1000FI0	0,55	1NPW2000GDD	3,56	1NVA1000GD0	1,09	1NVC0800GD0	0,95
1NPA150AFT0	1,99	1NPA2000QRI	2,38	1NPR1000FT0	1,16	1NPW2000GX0	2,34	1NVA1000GDD	1,22	1NVC0800GDD	1,26
1NPA150AFX0	1,46	1NPA2000QX0	2,14	1NPR1000GR0	0,80	1NPW2000GXI	2,58	1NVA1000GR0	0,85	1NVC0800GX0	0,76
1NPA150AFY0	3,02	1NPA2000QXI	2,38	1NPR1000GRI	0,93	1NPW2000GY0	3,51	1NVA1000GRI	0,98	1NVC0800GXI	0,89
1NPA150AGD0	2,76	1NPA2500FM0	4,19	1NPR1000GT0	1,48	1NPW2000GYN	3,51	1NVA1000GT0	1,09	1NVC0800QX0	0,65
1NPA150AGDD	2,99	1NPA2500GM0	5,57	1NPR1000GTD	1,61	1NPW2000QX0	2,14	1NVA1000GTD	1,22	1NVC0800QXI	0,78
1NPA150AGM0	2,21	1NPE100AFI0	0,72	1NPR1000QR0	0,69	1NPW2000QXI	2,38	1NVA1000GX0	0,85	1NVC1000FD0	0,80
1NPA150AGMI	2,45	1NPE100AFT0	1,36	1NPR1000QRI	0,82	1NPW250AFY0	2,77	1NVA1000GXI	0,98	1NVC1000FX0	0,62
1NPA150AGMP	2,45	1NPE100AGR0	0,98	1NPR1250FI0	0,78	1NPW250AGY0	2,77	1NVA1000QR0	0,74	1NVC1000GD0	1,11
1NPA150AGR0	2,03	1NPE100AGRI	1,13	1NPR1250FT0	1,47	1NPW250AGYN	2,77	1NVA1000QX0	0,74	1NVC1000GDD	1,42
1NPA150AGRI	2,27	1NPE100AGT0	1,76	1NPR1250GR0	1,06	1NPX0800FD0	1,06	1NVA1000QXI	0,87	1NVC1000GX0	0,87
1NPA150AGT0	2,76	1NPE100AGTD	1,89	1NPR1250GRI	1,21	1NPX0800FX0	0,46	1NVA1250FD0	1,06	1NVC1000GXI	1,00
1NPA150AGTD	2,99	1NPE100AQR0	0,87	1NPR1250GT0	1,77	1NPX0800GD0	1,36	1NVA1250FI0	0,83	1NVC1000QX0	0,76
1NPA150AGX0	1,91	1NPE100AQRI	1,02	1NPR1250GTD	1,90	1NPX0800GDD	1,49	1NVA1250FT0	1,06	1NVC1000QXI	0,89
1NPA150AGXI	2,15	1NPE125AFI0	1,35	1NPR1250QR0	0,95	1NPX0800GX0	0,73	1NVA1250FX0	0,83	1NVC1250FD0	1,06
1NPA150AGY0	3,02	1NPE125AFM0	1,62	1NPR1250QRI	1,10	1NPX0800GXI	0,86	1NVA1250GD0	1,35	1NVC1250FX0	0,85
1NPA150AGYN	3,02	1NPE125AFT0	2,53	1NPR1500FI0	0,91	1NPX0800QX0	0,62	1NVA1250GDD	1,48	1NVC1250GD0	1,35
1NPA150AQR0	1,69	1NPE125AGM0	2,00	1NPR1500FT0	1,93	1NPX0800QXI	0,75	1NVA1250GR0	1,11	1NVC1250GDD	1,48
1NPA150AQRI	1,93	1NPE125AGMI	2,24	1NPR1500GR0	1,17	1NPX1000FD0	1,16	1NVA1250GRI	1,26	1NVC1250GX0	1,13
1NPA150AQX0	1,69	1NPE125AGMP	2,24	1NPR1500GRI	1,32	1NPX1000FX0	0,55	1NVA1250GT0	1,35	1NVC1250GXI	1,28
1NPA150AQXI	1,93	1NPE125AGR0	1,81	1NPR1500GT0	2,21	1NPX1000GD0	1,48	1NVA1250GTD	1,48	1NVC1250QX0	1,02
1NPA1750FD0	2,48	1NPE125AGRI	2,05	1NPR1500GTD	2,34	1NPX1000GDD	1,61	1NVA1250GX0	1,11	1NVC1250QXI	1,15
1NPA1750FI0	1,86	1NPE125AGT0	3,09	1NPR1500QR0	1,06	1NPX1000GX0	0,80	1NVA1250GXI	1,26	1NVC1500FD0	1,32

PESI - WEIGHTS

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
1NVC1500FX0	1,13	1NVK1250QX0	1,02	1PGA2000GR0	2,86	1PPA150AQRI	1,72	1RGT1500FE0	6,37	1RGT2000FE0D	14,77
1NVC1500GD0	1,73	1NVK1250QXI	1,15	1PGA2000GRI	3,11	1PPA1750FI0	1,58	1RGT1500FE0D	14,20	1RGT2000FH0	5,34
1NVC1500GDD	1,73	1NVK1500FD0	1,32	1PGA2000QR0	2,57	1PPA1750GR0	1,98	1RGT1500FH0	4,05	1RGT2000FM0	4,80
1NVC1500GX0	1,39	1NVK1500FI0	1,13	1PGA2000QRI	2,81	1PPA1750GRI	2,22	1RGT1500FM0	3,58	1RGT2000FP0	4,80
1NVC1500GXI	1,54	1NVK1500FT0	2,90	1POA0800FI0	0,49	1PPA1750QR0	1,68	1RGT1500FP0	3,58	1RGT2000FT0	4,80
1NVC1500QX0	1,28	1NVK1500FX0	1,13	1POA0800FX0	0,49	1PPA1750QRI	1,92	1RGT1500FT0	3,58	1RGT2000FV0	5,52
1NVC1500QXI	1,43	1NVK1500GD0	1,73	1POA0800GR0	0,74	1PPA2000FI0	1,78	1RGT1500FV0	4,10	1RGT2000GE0	10,22
1NVC2000FD0	2,90	1NVK1500GDD	1,73	1POA0800GX0	0,74	1PPA2000GR0	2,13	1RGT1500GE0	8,90	1RGT2000GE0D	19,00
1NVC2000FX0	2,15	1NVK1500GR0	1,39	1POA0800QR0	0,63	1PPA2000GRI	2,37	1RGT1500GE0D	15,37	1RGT2000GH0	5,88
1NVC2000GD0	3,57	1NVK1500GRI	1,54	1POA0800QX0	0,63	1PPA2000QR0	1,82	1RGT1500GH0	4,71	1RGT2000GHR	6,22
1NVC2000GDD	3,79	1NVK1500GT0	1,60	1POA1000FI0	0,60	1PPA2000QRI	2,06	1RGT1500GHR	5,05	1RGT2000GM0	5,03
1NVC2000GX0	2,71	1NVK1500GTD	1,73	1POA1000FX0	0,60	1PPR1000FI0	0,48	1RGT1500GM0	3,90	1RGT2000GMI	5,27
1NVC2000GXI	2,95	1NVK1500GX0	1,39	1POA1000GR0	0,85	1PPR1000GR0	0,73	1RGT1500GMI	4,14	1RGT2000GMP	5,27
1NVC2000QX0	2,40	1NVK1500GXI	1,54	1POA1000GX0	0,85	1PPR1000GRI	0,86	1RGT1500GMP	4,14	1RGT2000GP0	6,24
1NVC2000QXI	2,64	1NVK1500QR0	1,28	1POA1000QR0	0,74	1PPR1000QR0	0,62	1RGT1500GP0	4,82	1RGT2000GPN	6,74
1NVK0800FD0	0,65	1NVK1500QX0	1,28	1POA1000QX0	0,74	1PPR1000QRI	0,75	1RGT1500GPN	5,32	1RGT2000GT0	5,43
1NVK0800FI0	0,51	1NVK1500QXI	1,43	1POA1250FI0	0,83	1PPR1250FI0	0,68	1RGT1500GT0	4,30	1RGT2000GTD	5,73
1NVK0800FT0	0,65	1NVK2000FD0	2,90	1POA1250FX0	0,83	1PPR1250GR0	0,96	1RGT1500GTD	4,60	1RGT2000GV0	6,22
1NVK0800FX0	0,51	1NVK2000FI0	2,36	1POA1250GR0	1,11	1PPR1250GRI	1,11	1RGT1500GV0	5,00	1RGT2000GVN	6,72
1NVK0800GD0	0,95	1NVK2000FT0	2,90	1POA1250GX0	1,11	1PPR1250QR0	0,85	1RGT1500GVN	5,50	1RGT200AFE0	9,16
1NVK0800GDD	1,26	1NVK2000FX0	2,15	1POA1250QR0	1,00	1PPR1250QRI	1,00	1RGT1600FE0	6,50	1RGT200AFV0	9,40
1NVK0800GR0	0,76	1NVK2000GD0	3,57	1POA1250QX0	1,00	1RFA050AFG0	0,31	1RGT1600FE0D	14,46	1RGT200AGE0	11,76
1NVK0800GRI	0,89	1NVK2000GDD	3,79	1POA150BFI0	1,08	1RFA050AGG0	0,37	1RGT1600FH0	4,18	1RGT200AGV0	11,30
1NVK0800GT0	0,95	1NVK2000GR0	2,71	1POA150BFX0	1,08	1RFA060AFG0	0,45	1RGT1600FM0	3,71	1RGT200AGVN	11,30
1NVK0800GTD	1,26	1NVK2000GRI	2,95	1POA150BGR0	1,36	1RFA060AGG0	0,45	1RGT1600FP0	3,71	1RGT2300FE0	13,65
1NVK0800GX0	0,76	1NVK2000GT0	3,57	1POA150BGX0	1,36	1RFD0760FG0	1,15	1RGT1600FT0	3,71	1RGT2300FE0D	19,57
1NVK0800GXI	0,89	1NVK2000GTD	3,79	1POA150BQR0	1,25	1RFD0760GG0	1,23	1RGT1600FV0	4,23	1RGT2300FM0	6,66
1NVK0800QR0	0,65	1NVK2000GX0	2,71	1POA150BQX0	1,25	1RFE0630FG0	0,47	1RGT1600GE0	9,03	1RGT2300FV0	7,73
1NVK0800QX0	0,65	1NVK2000GXI	2,95	1POA2000FI0	2,31	1RFE0630GG0	0,53	1RGT1600GE0D	15,63	1RGT2300GE0	18,40
1NVK0800QXI	0,78	1NVK2000QR0	2,40	1POA2000FX0	2,31	1RFE076AFG0	0,92	1RGT1600GH0	4,84	1RGT2300GE0D	23,80
1NVK1000FD0	0,80	1NVK2000QX0	2,40	1POA2000GR0	2,66	1RFE076AGG0	0,98	1RGT1600GHR	5,18	1RGT2300GM0	7,01
1NVK1000FI0	0,62	1NVK2000QXI	2,64	1POA2000GX0	2,66	1RFE076AQG0	0,96	1RGT1600GM0	4,03	1RGT2300GMI	7,01
1NVK1000FT0	0,80	1PGA0800FI0	0,43	1POA2000QR0	2,20	1RFE1000FG0	1,02	1RGT1600GMI	4,27	1RGT2300GV0	8,53
1NVK1000FX0	0,62	1PGA0800GR0	0,69	1POA2000QX0	2,20	1RFE1000GG0	1,08	1RGT1600GMP	4,27	1RGT2300GVN	9,03
1NVK1000GD0	1,11	1PGA0800GRI	0,82	1PPA0800FI0	0,36	1RFE1000QG0	1,06	1RGT1600GP0	5,15	1RGT230AFE0	14,27
1NVK1000GDD	1,42	1PGA0800QR0	0,58	1PPA0800GR0	0,63	1RFR0760FG0	0,86	1RGT1600GPN	5,65	1RGT230AFM0	8,57
1NVK1000GR0	0,87	1PGA0800QRI	0,71	1PPA0800GRI	0,76	1RFR0760GG0	0,92	1RGT1600GT0	4,43	1RGT230AGE0	19,02
1NVK1000GRI	1,00	1PGA1000FI0	0,58	1PPA0800QR0	0,52	1RFR0760QG0	0,90	1RGT1600GTD	4,73	1RGT230AGM0	9,95
1NVK1000GT0	1,11	1PGA1000GR0	0,83	1PPA0800QRI	0,65	1RGT1250FE0	5,60	1RGT1600GV0	5,13	1RGT2500FE0	13,73
1NVK1000GTD	1,42	1PGA1000GRI	0,96	1PPA1000FI0	0,45	1RGT1250FE0D	13,63	1RGT1600GVN	5,63	1RGT2500FE0D	20,09
1NVK1000GX0	0,87	1PGA1000QR0	0,72	1PPA1000GR0	0,70	1RGT1250FH0	3,40	1RGT1800FE0	7,15	1RGT2500FH0	7,09
1NVK1000GXI	1,00	1PGA1000QRI	0,85	1PPA1000GRI	0,83	1RGT1250FM0	2,94	1RGT1800FE0D	16,54	1RGT2500FM0	6,74
1NVK1000QR0	0,76	1PGA1250FI0	0,88	1PPA1000QR0	0,59	1RGT1250FP0	2,94	1RGT1800FH0	4,87	1RGT2500FP0	6,80
1NVK1000QX0	0,76	1PGA1250GR0	1,17	1PPA1000QRI	0,72	1RGT1250FT0	2,94	1RGT1800FM0	4,23	1RGT2500FV0	7,81
1NVK1000QXI	0,89	1PGA1250GRI	1,31	1PPA1250FI0	0,65	1RGT1250FV0	3,66	1RGT1800FP0	4,25	1RGT2500GE0	18,48
1NVK1250FD0	1,06	1PGA1250QR0	1,06	1PPA1250GR0	0,93	1RGT1250GE0	8,10	1RGT1800FT0	4,23	1RGT2500GE0D	24,32
1NVK1250FI0	0,85	1PGA1250QRI	1,20	1PPA1250GRI	1,08	1RGT1250GE0D	14,80	1RGT1800GE0	9,75	1RGT2500GH0	8,73
1NVK1250FT0	1,26	1PGA1600FI0	1,84	1PPA1250QR0	0,82	1RGT1250GH0	4,11	1RGT1800GE0D	17,61	1RGT2500GHR	9,07
1NVK1250FX0	0,85	1PGA1600GR0	2,22	1PPA1250QRI	0,97	1RGT1250GHR	4,45	1RGT1800GH0	5,41	1RGT2500GM0	7,09
1NVK1250GD0	1,35	1PGA1600GRI	2,46	1PPA1500FI0	0,80	1RGT1250GM0	3,31	1RGT1800GHR	5,75	1RGT2500GMI	7,33
1NVK1250GDD	1,48	1PGA1600QR0	1,92	1PPA1500GR0	1,05	1RGT1250GMI	3,55	1RGT1800GM0	4,52	1RGT2500GP0	9,70
1NVK1250GR0	1,13	1PGA1600QRI	2,16	1PPA1500GRI	1,20	1RGT1250GMP	3,55	1RGT1800GMI	4,76	1RGT2500GPN	10,20
1NVK1250GRI	1,28	1PGA1800FI0	2,16	1PPA1500QR0	0,94	1RGT1250GP0	4,30	1RGT1800GMP	4,76	1RGT2500GV0	8,61
1NVK1250GT0	1,37	1PGA1800GR0	2,53	1PPA1500QRI	1,09	1RGT1250GPN	4,80	1RGT1800GP0	5,77	1RGT2500GVN	9,11
1NVK1250GTD	1,68	1PGA1800GRI	2,78	1PPA150AFI0	1,42	1RGT1250GT0	3,64	1RGT1800GPN	6,37	1RGT250AFE0	14,36
1NVK1250GX0	1,13	1PGA1800QR0	2,23	1PPA150AGR0	1,82	1RGT1250GTD	3,94	1RGT1800GT0	4,91	1RGT250AFH0	9,30
1NVK1250GXI	1,28	1PGA1800QRI	2,47	1PPA150AGRI	2,06	1RGT1250GV0	4,38	1RGT1800GTD	5,21	1RGT250AFM0	8,66
1NVK1250QR0	1,02	1PGA2000FI0	2,54	1PPA150AQR0	1,48	1RGT1250GVN	4,78	1RGT2000FE0	7,62	1RGT250AFV0	10,88

PESI - WEIGHTS

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
1RGT250AGE0	19,11	1RTZ0800GX0	0,75	1RWT100FGR0	2,91	1RWT150BFM0	3,97	1RWT1750QR0	4,10	1RWT200CGMP	5,96
1RGT250AGH0	10,44	1RTZ1000FD0	0,84	1RWT100FGRI	3,15	1RWT150BFP0	4,44	1RWT1750QRI	4,34	1RWT200CGP0	6,57
1RGT250AGHR	10,78	1RTZ1000FI0	0,66	1RWT100FGT0	3,87	1RWT150BFT0	4,14	1RWT1800FE0	7,52	1RWT200CGPN	6,91
1RGT250AGM0	10,04	1RTZ1000FX0	0,66	1RWT100FGTD	4,10	1RWT150BFV0	4,49	1RWT1800FE0D	10,14	1RWT200CGT0	6,37
1RGT250AGV0	12,68	1RTZ1000GD0	1,15	1RWT100FQR0	2,58	1RWT150BGH0	5,10	1RWT1800FH0	5,24	1RWT200CGTD	6,60
1RGT250AGVN	13,18	1RTZ1000GR0	0,66	1RWT100GFG0	1,65	1RWT150BGHR	5,44	1RWT1800FI0	4,29	1RWT200CGV0	6,91
1RGT250BFE0	16,07	1RTZ1000GX0	0,89	1RWT100GFT0	2,01	1RWT150BGM0	4,29	1RWT1800FM0	4,60	1RWT200CGVN	7,41
1RGT250BFV0	12,59	1RTZ1500FD0	2,26	1RWT100GGG0	1,71	1RWT150BGMI	4,53	1RWT1800FP0	5,24	1RWT200HFE0	10,62
1RGT250BGE0	20,82	1RTZ1500FI0	1,67	1RWT100GGT0	2,34	1RWT150BGMP	4,53	1RWT1800FT0	4,69	1RWT200HGE0	13,22
1RGT250BGV0	14,39	1RTZ1500FT0	2,26	1RWT100GGTD	2,46	1RWT150BGP0	5,10	1RWT1800FV0	5,42	1RWT200YFE0	16,09
1RGT250BGVN	14,89	1RTZ1500FX0	1,67	1RWT100GQG0	1,69	1RWT150BGPN	5,44	1RWT1800GE0	10,12	1RWT200YFV0	10,07
1RGT2800FE0	16,69	1RTZ1500GD0	2,54	1RWT125AFI0	1,54	1RWT150BGR0	4,11	1RWT1800GE0D	14,84	1RWT200YGE0	20,84
1RGT2800FV0	13,29	1RTZ1500GR0	1,93	1RWT125AFT0	2,56	1RWT150BGRI	4,35	1RWT1800GH0	5,78	1RWT200YGV0	10,77
1RGT2800GE0	21,44	1RTZ1500GT0	2,54	1RWT125AFV0	3,03	1RWT150BGT0	4,42	1RWT1800GHR	6,12	1RWT200YGVN	11,27
1RGT2800GV0	15,15	1RTZ1500GX0	1,93	1RWT125AGG0	1,86	1RWT150BGTD	4,55	1RWT1800GM0	4,89	1RWT250AFE0	14,79
1RGT2800GVN	15,65	1RTZ2000FD0	3,43	1RWT125AGR0	1,82	1RWT150BGV0	5,39	1RWT1800GMI	5,13	1RWT250AFE0D	21,30
1RGT300AFE0	20,44	1RTZ2000FI0	2,97	1RWT125AGRI	1,97	1RWT150BGVN	5,89	1RWT1800GMP	5,13	1RWT250AFH0	8,15
1RGT300AFV0	16,76	1RTZ2000FT0	3,43	1RWT125AGT0	2,85	1RWT150BQR0	3,77	1RWT1800GP0	5,78	1RWT250AFM0	7,60
1RGT300AGE0	25,14	1RTZ2000FX0	2,97	1RWT125AGTD	2,98	1RWT150BQRI	4,01	1RWT1800GPN	6,12	1RWT250AFP0	8,15
1RGT300AGV0	18,62	1RTZ2000GD0	4,18	1RWT125AGV0	3,75	1RWT150DFE0	6,73	1RWT1800GR0	4,69	1RWT250AFV0	11,31
1RGT300AGVN	19,12	1RTZ2000GR0	3,32	1RWT125AGVN	4,15	1RWT150DFE0D	9,58	1RWT1800GRI	4,93	1RWT250AGE0	19,54
1RGT4000FE0	34,60	1RTZ2000GT0	4,18	1RWT125AQG0	1,84	1RWT150DFH0	4,41	1RWT1800GT0	5,30	1RWT250AGE0D	26,03
1RGT4000GE0	41,25	1RTZ2000GX0	3,32	1RWT125AQR0	1,71	1RWT150DFP0	4,41	1RWT1800GTD	5,53	1RWT250AGH0	9,79
1RPA30040FM0	3,75	1RWT0800FG0	1,29	1RWT125AQRI	1,86	1RWT150DFT0	4,04	1RWT1800GV0	6,12	1RWT250AGHR	10,13
1RPA30040GM0	5,13	1RWT0800FI0	0,90	1RWT125DFE0	5,54	1RWT150DFV0	4,46	1RWT1800GVN	6,62	1RWT250AGM0	7,95
1RPR2000FI0	1,82	1RWT0800FT0	1,50	1RWT125DFE0D	8,64	1RWT150DGE0	9,37	1RWT1800QR0	4,39	1RWT250AGMI	8,19
1RPR2000GR0	2,17	1RWT0800FV0	1,39	1RWT125DFH0	3,34	1RWT150DGE0D	14,28	1RWT1800QRI	4,63	1RWT250AGP0	9,79
1RPR30040FM0	3,85	1RWT0800GG0	1,35	1RWT125DFI0	2,61	1RWT150DGH0	5,07	1RWT200AFH0	5,56	1RWT250AGPN	10,13
1RPR30040GM0	5,23	1RWT0800GR0	1,17	1RWT125DFM0	2,88	1RWT150DGHR	5,41	1RWT200AFI0	4,69	1RWT250AGV0	13,11
1RTB0800FD0	0,67	1RWT0800GRI	1,30	1RWT125DFP0	3,34	1RWT150DGP0	5,07	1RWT200AFM0	5,01	1RWT250AGVN	13,61
1RTB0800FI0	0,48	1RWT0800GT0	1,80	1RWT125DFT0	3,06	1RWT150DGPN	5,41	1RWT200AFP0	5,56	1RWT250EFE0	15,30
1RTB0800FT0	0,67	1RWT0800GTD	1,93	1RWT125DFV0	3,60	1RWT150DGT0	4,81	1RWT200AFT0	5,23	1RWT250EFH0	8,66
1RTB0800FX0	0,48	1RWT0800GV0	1,69	1RWT125DGE0	8,28	1RWT150DGTD	5,04	1RWT200AGH0	6,10	1RWT250EFM0	9,60
1RTB0800GD0	0,97	1RWT0800GVN	2,09	1RWT125DGE0D	13,34	1RWT150DGV0	5,36	1RWT200AGHR	6,44	1RWT250EFP0	8,66
1RTB0800GR0	0,75	1RWT0800QG0	1,33	1RWT125DGH0	4,05	1RWT150DGVN	5,60	1RWT200AGM0	5,25	1RWT250EGE0	20,05
1RTB0800GT0	0,97	1RWT0800QR0	1,06	1RWT125DGHR	4,39	1RWT1750FE0	7,23	1RWT200AGMI	5,49	1RWT250EGH0	10,30
1RTB0800GX0	0,75	1RWT0800QRI	1,19	1RWT125DGM0	3,26	1RWT1750FE0D	9,85	1RWT200AGMP	5,49	1RWT250EGHR	10,64
1RTB1000FD0	0,82	1RWT100CFG0	1,50	1RWT125DGMI	3,50	1RWT1750FH0	4,95	1RWT200AGP0	6,10	1RWT250EGM0	10,98
1RTB1000FI0	0,64	1RWT100CFI0	1,15	1RWT125DGMP	3,50	1RWT1750FI0	4,00	1RWT200AGPN	6,44	1RWT250EGP0	10,30
1RTB1000FT0	0,82	1RWT100CFT0	1,76	1RWT125DGP0	4,05	1RWT1750FM0	4,31	1RWT200AGR0	5,04	1RWT250EGPN	10,64
1RTB1000FX0	0,64	1RWT100CFV0	1,59	1RWT125DGPN	4,39	1RWT1750FP0	4,95	1RWT200AGRI	5,28	1RWT250YFE0	19,49
1RTB1000GD0	1,13	1RWT100CGG0	1,56	1RWT125DGR0	3,07	1RWT1750FT0	4,40	1RWT200AGT0	5,90	1RWT250YFV0	16,00
1RTB1000GR0	0,80	1RWT100CGR0	1,40	1RWT125DGRI	3,31	1RWT1750FV0	5,13	1RWT200AGTD	6,13	1RWT250YGE0	24,24
1RTB1000GT0	1,13	1RWT100CGRI	1,53	1RWT125DGT0	3,72	1RWT1750GE0	9,83	1RWT200AQR0	4,73	1RWT250YGV0	17,81
1RTB1000GX0	0,80	1RWT100CGT0	2,09	1RWT125DGTD	3,95	1RWT1750GE0D	14,55	1RWT200AQRI	4,97	1RWT250YGVN	18,31
1RTB1250FD0	1,18	1RWT100CGTD	2,31	1RWT125DGV0	4,32	1RWT1750GH0	5,49	1RWT200CFE0	8,31	1RWT300CFE0	20,06
1RTB1250FI0	0,95	1RWT100CGV0	1,89	1RWT125DGVN	4,72	1RWT1750GHR	5,83	1RWT200CFE0D	10,93	1RWT300CFV0	16,38
1RTB1250FT0	1,18	1RWT100CGVN	2,29	1RWT125DQR0	2,75	1RWT1750GM0	4,60	1RWT200CFH0	6,03	1RWT300CGE0	24,76
1RTB1250FX0	0,95	1RWT100CQG0	1,55	1RWT1500FI0	2,12	1RWT1750GMI	4,84	1RWT200CFM0	5,48	1RWT300CGV0	18,24
1RTB1250GD0	1,47	1RWT100CQR0	1,29	1RWT1500FT0	3,14	1RWT1750GMP	4,84	1RWT200CFP0	6,03	1RWT300CGVN	18,74
1RTB1250GR0	1,15	1RWT100CQRI	1,44	1RWT1500GR0	2,38	1RWT1750GP0	5,49	1RWT200CFT0	5,70	1SPR0800FI0	0,41
1RTB1250GT0	1,47	1RWT100FFH0	3,08	1RWT1500GRI	2,53	1RWT1750GPN	5,83	1RWT200CFV0	6,21	1SPR0800GR0	0,67
1RTB1250GX0	1,15	1RWT100FFI0	2,49	1RWT1500GT0	3,42	1RWT1750GR0	4,40	1RWT200CGE0	10,91	1SPR0800GRI	0,81
1RTZ0800FD0	0,69	1RWT100FFP0	2,58	1RWT1500GTD	3,55	1RWT1750GRI	4,64	1RWT200CGE0D	15,63	1SPR0800QR0	0,59
1RTZ0800FI0	0,50	1RWT100FFT0	3,08	1RWT1500QR0	2,27	1RWT1750GT0	5,01	1RWT200CGH0	6,57	1SPR1000FI0	0,52
1RTZ0800FX0	0,50	1RWT100FGH0	3,90	1RWT1500QRI	2,41	1RWT1750GTD	5,24	1RWT200CGHR	6,91	1SPR1000GR0	0,78
1RTZ0800GD0	0,97	1RWT100FGP0	3,04	1RWT150BFH0	4,44	1RWT1750GV0	5,83	1RWT200CGM0	5,72	1SPR1000GRI	0,91
1RTZ0800GR0	0,50	1RWT100FGPN	3,54	1RWT150BFI0	3,71	1RWT1750GVN	6,33	1RWT200CGMI	5,96	1SPR1000QR0	0,66

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
1SPR1250FI0	0,76	1ZPT1000GR0	1,06	1ZPT125CGTD	3,34	1ZPT2000GRT	3,30	1ZVT1600GT0	3,40	1ZVT2500FM0	4,21
1SPR1250GR0	1,04	1ZPT1000GRI	1,19	1ZPT125CQR0	1,93	1ZPT2000GT0	4,16	1ZVT1600GTD	3,70	1ZVT2500GH0	6,24
1SPR1250GRI	1,19	1ZPT1000GT0	1,74	1ZPT125CQRI	2,17	1ZPT2000GTD	4,39	1ZVT1600QR0	2,48	1ZVT2500GHR	6,58
1SPR1250QR0	0,93	1ZPT1000GTD	1,87	1ZPT1500FI0	2,06	1ZPT2000QR0	2,99	1ZVT1600QRI	2,48	1ZVT2500GM0	4,56
1SPR1600FI0	1,62	1ZPT1000QR0	0,95	1ZPT1500FM0	2,32	1ZPT2000QRI	3,24	1ZVT160AFH0	3,15	1ZVT2500GMI	4,80
1SPR1600GR0	2,00	1ZPT1000QRI	1,10	1ZPT1500FT0	2,42	1ZPT2500FE0	10,98	1ZVT160AFI0	2,42	2DHN060006	0,09
1SPR1600GRI	2,24	1ZPT100AFG0	1,23	1ZPT1500GM0	2,64	1ZPT2500FH0	4,37	1ZVT160AFM0	2,68	2DHN080008	0,12
1SPR1600QR0	1,70	1ZPT100AFI0	0,95	1ZPT1500GMI	2,64	1ZPT2500FM0	5,31	1ZVT160AFT0	2,68	2DHN080008E	0,12
1SPR2000FI0	2,05	1ZPT100AFT0	1,59	1ZPT1500GMP	2,64	1ZPT2500FP0	5,70	1ZVT160AGCA	3,00	2DHN080A08	0,11
1SPR2000GR0	2,37	1ZPT100AGG0	1,29	1ZPT1500GR0	2,46	1ZPT2500GE0	15,77	1ZVT160AGEA	3,36	2DHN100008	0,24
1SPR2000GRI	2,62	1ZPT100AGR0	1,21	1ZPT1500GRI	2,74	1ZPT2500GH0	6,01	1ZVT160AGEB	3,06	2DHN100008E	0,23
1SPR2000QR0	2,08	1ZPT100AGRI	1,36	1ZPT1500GT0	3,19	1ZPT2500GHR	6,35	1ZVT160AGH0	3,81	2DHN100A08	0,21
1TJT080AFE0	4,26	1ZPT100AGT0	1,99	1ZPT1500GTD	3,42	1ZPT2500GM0	4,37	1ZVT160AGHR	4,15	2DHN125008	0,35
1TJT080AGE0	6,83	1ZPT100AGTD	2,12	1ZPT1500QR0	2,12	1ZPT2500GMI	4,37	1ZVT160AGM0	3,00	2DHN125010E	0,67
1TJT0820FH0	1,90	1ZPT100AQG0	1,27	1ZPT1500QRI	2,36	1ZPT2500GP0	8,50	1ZVT160AGMI	3,24	2DHN125A08	0,38
1TJT0820GH0	2,72	1ZPT100AQR0	1,11	1ZPT1600FE0	5,42	1ZPT2500GPN	9,90	1ZVT160AGMP	3,24	2DHT150012	1,10
1TJT085AFE0	4,36	1ZPT100AQRI	1,11	1ZPT1600FH0	3,10	1ZVT1000FI0	0,90	1ZVT160AGR0	2,82	2DHT200012	1,53
1TJT085AGE0	6,93	1ZPT100CFH0	2,16	1ZPT1600FI0	2,37	1ZVT1000FT0	2,09	1ZVT160AGRI	3,06	2DNN060006	0,14
1TJT085BFE0	4,43	1ZPT100CFI0	1,57	1ZPT1600FM0	2,63	1ZVT1000GR0	1,15	1ZVT160AGRT	2,82	2DNN080008	0,17
1TJT085BGE0	7,00	1ZPT100CFT0	2,16	1ZPT1600FP0	3,10	1ZVT1000GRI	1,28	1ZVT160AGT0	3,40	2DNN080A08	0,17
1TRK1548SFE0	15,19	1ZPT100CGH0	2,98	1ZPT1600FT0	2,73	1ZVT1000GT0	2,79	1ZVT160AGTD	3,70	2DNN100008	0,21
1TRK1548SGE0	21,84	1ZPT100CGR0	1,99	1ZPT1600GCA	2,50	1ZVT1000GTD	3,09	1ZVT160AQR0	2,48	2DNN100A08	0,21
1TRK3004NFE0	13,70	1ZPT100CGRI	2,23	1ZPT1600GE0	8,06	1ZVT1000QR0	1,04	1ZVT160AQRI	2,48	2DNN125008	0,37
1TRK3004NGE0	18,45	1ZPT100CGT0	2,95	1ZPT1600GEA	2,86	1ZVT1000QRI	1,17	1ZVT1800FH0	3,63	2DNN125A08	0,35
1TRK4004NFE0	16,92	1ZPT100CGTD	3,08	1ZPT1600GEB	2,86	1ZVT1250FH0	2,62	1ZVT1800FI0	2,68	2DNT150008	0,50
1TRK4004NGE0	21,67	1ZPT100CQR0	1,66	1ZPT1600GH0	3,76	1ZVT1250FI0	1,89	1ZVT1800FM0	2,99	2DNT200008	0,81
1TRK4008EFE0	19,71	1ZPT100CQRI	1,66	1ZPT1600GHR	4,10	1ZVT1250FM0	2,16	1ZVT1800FT0	2,99	2EDA050P08	0,03
1TRK4008EGE0	26,36	1ZPT1250FI0	0,91	1ZPT1600GM0	2,95	1ZVT1250FT0	2,16	1ZVT1800GH0	4,17	2EDA060008	0,05
1TWK0350GR0	0,28	1ZPT1250FT0	1,60	1ZPT1600GMI	2,95	1ZVT1250GCA	2,60	1ZVT1800GHR	4,56	2EDA075008	0,05
1TWK0350QR0	0,25	1ZPT1250GG0	1,23	1ZPT1600GMP	2,95	1ZVT1250GEA	2,96	1ZVT1800GM0	3,28	2EDA075L10	0,07
1TWK0450GR0	0,36	1ZPT1250GR0	1,19	1ZPT1600GP0	3,76	1ZVT1250GEB	2,96	1ZVT1800GMI	3,52	2EDA080012	0,09
1TWK0450QR0	0,33	1ZPT1250GRI	1,34	1ZPT1600GPN	4,10	1ZVT1250GH0	3,33	1ZVT1800GMP	3,52	2EDA080A12	0,10
1TWK0550GR0	0,52	1ZPT1250GT0	1,90	1ZPT1600GR0	2,77	1ZVT1250GHR	3,67	1ZVT1800GR0	3,08	2EDA100012	0,13
1TWK0550QR0	0,49	1ZPT1250GTD	2,03	1ZPT1600GRI	3,01	1ZVT1250GM0	2,54	1ZVT1800GRI	3,32	2EDA100A12	0,17
1TWT0800FE0	4,51	1ZPT1250QG0	1,21	1ZPT1600GRT	2,52	1ZVT1250GMI	2,78	1ZVT1800GT0	3,67	2EDA100P10	0,11
1TWT0800GE0	7,08	1ZPT1250QR0	1,08	1ZPT1600GT0	3,50	1ZVT1250GMP	2,54	1ZVT1800GTD	3,97	2EDA100S08	0,08
1TWT080AFE0	4,56	1ZPT1250QRI	1,23	1ZPT1600GTD	3,73	1ZVT1250GR0	2,36	1ZVT1800QR0	2,78	2EDA125012	0,19
1TWT080AGE0	7,13	1ZPT125CFE0	4,72	1ZPT1600QR0	2,43	1ZVT1250GRI	2,60	1ZVT1800QRI	2,78	2EDA125A12	0,23
1TWT080BFE0	4,71	1ZPT125CFH0	2,52	1ZPT1600QRI	2,67	1ZVT1250GRT	2,36	1ZVT2000FH0	4,04	2EDA125L10	0,16
1TWT080BGE0	7,28	1ZPT125CFI0	1,78	1ZPT2000FE0	6,01	1ZVT1250GT0	2,86	1ZVT2000FI0	3,17	2EDA125S08	0,10
1TWT0820FH0	2,19	1ZPT125CFM0	2,06	1ZPT2000FH0	3,82	1ZVT1250GTD	3,16	1ZVT2000FM0	3,50	2EDA150010	0,20
1TWT0820GH0	3,01	1ZPT125CFP0	2,52	1ZPT2000FI0	2,95	1ZVT1250QR0	2,03	1ZVT2000FT0	3,50	2EDA150012	0,33
1TWT0850FE0	4,57	1ZPT125CFT0	2,55	1ZPT2000FM0	3,28	1ZVT1250QRI	2,03	1ZVT2000GCA	3,52	2EDA200012	0,58
1TWT0850GE0	7,14	1ZPT125CGCA	2,05	1ZPT2000FP0	3,82	1ZVT1600FH0	3,15	1ZVT2000GEA	4,06	2EDN060006	0,09
1TWT085AFE0	4,66	1ZPT125CGE0	7,46	1ZPT2000FT0	3,49	1ZVT1600FI0	2,42	1ZVT2000GEB	4,06	2EDN080008	0,10
1TWT085AGE0	7,23	1ZPT125CGEA	2,41	1ZPT2000GCA	3,30	1ZVT1600FM0	2,68	1ZVT2000GH0	4,58	2EDN080A08	0,11
1TWT085BFE0	4,82	1ZPT125CGEB	2,41	1ZPT2000GE0	8,70	1ZVT1600FT0	2,68	1ZVT2000GHR	4,92	2EDN100008	0,19
1TWT085BGE0	7,39	1ZPT125CGH0	3,23	1ZPT2000GEA	3,44	1ZVT1600GCA	3,00	1ZVT2000GM0	3,73	2EDN100A08	0,23
1ZPT0800FI0	0,55	1ZPT125CGHR	3,54	1ZPT2000GEB	3,44	1ZVT1600GEA	3,36	1ZVT2000GMI	3,97	2EDN125008	0,23
1ZPT0800FT0	1,10	1ZPT125CGM0	2,44	1ZPT2000GH0	4,36	1ZVT1600GEB	3,06	1ZVT2000GMP	3,97	2EDN125A08	0,27
1ZPT0800GR0	0,80	1ZPT125CGMI	2,44	1ZPT2000GHR	4,74	1ZVT1600GH0	3,81	1ZVT2000GR0	3,52	2EDT150008	0,44
1ZPT0800GRI	0,93	1ZPT125CGMP	2,44	1ZPT2000GM0	3,51	1ZVT1600GHR	4,15	1ZVT2000GRI	3,76	2EDT200008	0,65
1ZPT0800GT0	1,40	1ZPT125CGP0	3,23	1ZPT2000GMI	3,51	1ZVT1600GM0	3,00	1ZVT2000GRT	3,52	2EGA050006P	0,06
1ZPT0800GTD	1,53	1ZPT125CGPN	3,54	1ZPT2000GMP	3,51	1ZVT1600GMI	3,24	1ZVT2000GT0	4,13	2EGA050L06P	0,07
1ZPT0800QR0	0,69	1ZPT125CGR0	2,28	1ZPT2000GP0	4,36	1ZVT1600GMP	3,24	1ZVT2000GTD	4,43	2EGA060L06P	0,10
1ZPT0800QRI	0,69	1ZPT125CGRI	2,50	1ZPT2000GPN	4,74	1ZVT1600GR0	2,82	1ZVT2000QR0	3,21	2EGA075006P	0,15
1ZPT1000FI0	0,81	1ZPT125CGRT	2,07	1ZPT2000GR0	3,30	1ZVT1600GRI	3,06	1ZVT2000QRI	3,21	2EGA080006P	0,17
1ZPT1000FT0	1,42	1ZPT125CGT0	3,21	1ZPT2000GRI	3,54	1ZVT1600GRT	2,82	1ZVT2500FH0	4,62	2EGA100006P	0,22

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
2EGA125008P	0,46	3DHN1000BKBK5	1,28	3DHT2000BTBK5	2,52	3DNN1250QHDQ2	0,66	3EDA050PQX0	0,21	3EDA100PQS0	0,50
2ENA050P08	0,02	3DHN1000BTAH5	0,81	3DHT2000QK0Q2	2,56	3DNN1250QHQQ2	0,58	3EDA050PQXD	0,26	3EDA100PQSD	0,57
2ENA075008	0,04	3DHN1000BTAK5	0,92	3DHT2000QKDQ2	2,85	3DNN1250QK0Q2	0,92	3EDA050PVM0	0,23	3EDA100PVS0	0,54
2ENA075L10	0,06	3DHN1000BTBH5	0,79	3DHT2000QKTQ2	2,78	3DNN1250QKDQ2	1,08	3EDA050PVMD	0,27	3EDA100PVSD	0,61
2ENA100P10	0,09	3DHN1000BTBK5	0,90	3DHT2000QT0Q2	2,20	3DNN1250QKTQ2	1,12	3EDA050PVX0	0,23	3EDA100SFM0	0,24
2ENA100S08	0,07	3DHN1000QK0Q2	0,79	3DHT2000QTDQ2	2,29	3DNN1250QS0Q2	0,60	3EDA050PVXD	0,28	3EDA100SFT0	0,19
2ENA125L10	0,13	3DHN1000QKDQ2	0,95	3DHT2000QTQQ2	2,30	3DNN1250QSDQ2	0,61	3EDA0600QD0Q2	0,30	3EDA100SFX0	0,24
2ENA125S08	0,10	3DHN1000QKTQ2	0,98	3DNN0600QD0Q2	0,36	3DNN1250QSQQ2	0,61	3EDA0600QDDQ2	0,40	3EDA100SFZ0	0,20
2ENA150010	0,16	3DHN1000QT0Q2	0,48	3DNN0600QDDQ2	0,46	3DNN125AQD0Q2	0,65	3EDA0600QF0Q2	0,51	3EDA100SGM0	0,35
2EPA030006	0,01	3DHN1000QTDQ2	0,55	3DNN0600QF0Q2	0,53	3DNN125AQDDQ2	0,78	3EDA0600QFDQ2	0,57	3EDA100SGMD	0,40
2EPA036006	0,01	3DHN1000QTQQ2	0,55	3DNN0600QFDQ2	0,33	3DNN125AQF0Q2	0,82	3EDA0600QG0Q2	0,34	3EDA100SGX0	0,36
2EPA040008	0,02	3DHN100AQD0Q2	0,49	3DNN0600QG0Q2	0,40	3DNN125AQFDQ2	0,90	3EDA0600QGDQ2	0,39	3EDA100SGXD	0,41
2EPA050008	0,02	3DHN100AQDDQ2	0,62	3DNN0600QGDQ2	0,46	3DNN125AQG0Q2	0,69	3EDA0750FM0	0,20	3EDA100SQM0	0,32
2EPA050L08	0,03	3DHN100AQF0Q2	0,66	3DNN0800BKAH5	1,11	3DNN125AQGDQ2	0,78	3EDA0750FT0	0,15	3EDA100SQMD	0,36
2EPA060L08	0,05	3DHN100AQFDQ2	0,71	3DNN0800BKAK5	1,26	3DNT1500BKAH5	1,63	3EDA0750FX0	0,20	3EDA100SQX0	0,33
2EPA080008	0,05	3DHN100AQG0Q2	0,53	3DNN0800BKBH5	1,09	3DNT1500BKAK5	1,78	3EDA0750FZ0	0,16	3EDA100SQXD	0,37
2GPR175020	0,59	3DHN100AQGDQ2	0,61	3DNN0800BKBK5	1,24	3DNT1500BKBH5	1,61	3EDA0750GM0	0,30	3EDA100SVM0	0,34
2GPR200020	0,92	3DHN1250BKAH5	1,29	3DNN0800QK0Q2	0,72	3DNT1500BKBK5	1,76	3EDA0750GMD	0,34	3EDA100SVMD	0,39
2SGR200A20	0,57	3DHN1250BKAK5	1,44	3DNN0800QKDQ2	0,89	3DNT1500BSAH5	1,36	3EDA0750GX0	0,30	3EDA100SVX0	0,35
2SGT175A08	0,32	3DHN1250BKBH5	1,27	3DNN0800QKTQ2	0,92	3DNT1500BSAK5	1,47	3EDA0750GXD	0,35	3EDA100SVXD	0,39
2SGT200A08	0,60	3DHN1250BKBK5	1,42	3DNN080AQD0Q2	0,43	3DNT1500BSBH5	1,10	3EDA0750QM0	0,26	3EDA1250QD0Q2	0,54
2SWT150E08	0,30	3DHN1250BTAH5	0,84	3DNN080AQDDQ2	0,56	3DNT1500BSBK5	1,19	3EDA0750QMD	0,30	3EDA1250QDDQ2	0,68
2SWT200008	0,37	3DHN1250BTAK5	0,96	3DNN080AQF0Q2	0,59	3DNT1500QH0Q2	1,02	3EDA0750QX0	0,26	3EDA1250QF0Q2	0,71
2SWT200E08	0,37	3DHN1250BTBH5	0,84	3DNN080AQFDQ2	0,76	3DNT1500QHDQ2	1,08	3EDA0750QXD	0,31	3EDA1250QFDQ2	0,79
2U3T175008	0,65	3DHN1250BTBK5	0,96	3DNN080AQG0Q2	0,47	3DNT1500QHQQ2	1,09	3EDA0750VM0	0,28	3EDA1250QG0Q2	0,59
2U3T175A12	0,65	3DHN1250QK0Q2	0,91	3DNN080AQGDQ2	0,56	3DNT1500QK0Q2	1,24	3EDA0750VMD	0,33	3EDA1250QGDQ2	0,67
2U3T175B12	0,63	3DHN1250QKDQ2	1,07	3DNN1000BKAH5	1,16	3DNT1500QKDQ2	1,41	3EDA0750VX0	0,29	3EDA125AQK0Q2	0,84
2U3T200008	0,86	3DHN1250QKTQ2	1,10	3DNN1000BKAK5	1,30	3DNT1500QKTQ2	1,44	3EDA0750VXD	0,33	3EDA125AQKDQ2	1,00
2U3T200A12	0,85	3DHN1250QT0Q2	0,54	3DNN1000BKBH5	1,13	3DNT1500QS0Q2	1,02	3EDA075LFN0	0,27	3EDA125AQKTQ2	1,03
2U3T200B12	0,84	3DHN1250QTDQ2	0,61	3DNN1000BKBK5	1,28	3DNT1500QSDQ2	1,08	3EDA075LFS0	0,37	3EDA125LFN0	0,39
2U5T175008	0,65	3DHN1250QTQQ2	0,62	3DNN1000BSAH5	0,78	3DNT1500QSQQ2	1,08	3EDA075LGS0	0,49	3EDA125LFS0	0,49
2U5T175A12	0,65	3DHN125AQD0Q2	0,68	3DNN1000BSAK5	0,89	3DNT2000BKAH5	2,16	3EDA075LGSD	0,55	3EDA125LGS0	0,65
2U5T175B12	0,63	3DHN125AQDDQ2	0,82	3DNN1000BSBH5	0,75	3DNT2000BKAK5	2,30	3EDA075LQS0	0,42	3EDA125LGSD	0,71
2U5T200008	0,86	3DHN125AQF0Q2	0,85	3DNN1000BSBK5	0,87	3DNT2000BKBH5	2,13	3EDA075LQSD	0,49	3EDA125LQS0	0,58
2U5T200A12	0,85	3DHN125AQFDQ2	0,93	3DNN1000QH0Q2	0,38	3DNT2000BKBK5	2,28	3EDA075LVS0	0,46	3EDA125LQSD	0,65
2U5T200B12	0,84	3DHN125AQG0Q2	0,73	3DNN1000QHDQ2	0,44	3DNT2000BSAH5	1,79	3EDA075LVSD	0,53	3EDA125LVS0	0,62
3DHN0600QD0Q2	0,32	3DHN125AQGDQ2	0,81	3DNN1000QHQQ2	0,44	3DNT2000BSAK5	1,88	3EDA0800QD0Q2	0,36	3EDA125LVSD	0,69
3DHN0600QDDQ2	0,42	3DHT1500BKAH5	2,30	3DNN1000QK0Q2	0,77	3DNT2000BSBH5	1,73	3EDA0800QDDQ2	0,50	3EDA125SFM0	0,29
3DHN0600QF0Q2	0,48	3DHT1500BKAK5	2,45	3DNN1000QKDQ2	0,93	3DNT2000BSBK5	1,82	3EDA0800QF0Q2	0,53	3EDA125SFT0	0,25
3DHN0600QFDQ2	0,55	3DHT1500BKBH5	2,28	3DNN1000QKTQ2	0,96	3DNT2000QH0Q2	1,31	3EDA0800QFDQ2	0,69	3EDA125SFX0	0,29
3DHN0600QG0Q2	0,36	3DHT1500BKBK5	2,43	3DNN1000QS0Q2	0,45	3DNT2000QHDQ2	1,45	3EDA0800QG0Q2	0,41	3EDA125SFZ0	0,25
3DHN0600QGDQ2	0,42	3DHT1500BTAH5	1,91	3DNN1000QSDQ2	0,44	3DNT2000QHQQ2	1,45	3EDA0800QGDQ2	0,50	3EDA125SGM0	0,42
3DHN0800BKAH5	1,06	3DHT1500BTAK5	2,01	3DNN1000QSQQ2	0,44	3DNT2000QK0Q2	1,77	3EDA080AQK0Q2	0,68	3EDA125SGMD	0,47
3DHN0800BKAK5	1,22	3DHT1500BTBH5	1,87	3DNN100AQD0Q2	0,49	3DNT2000QKDQ2	2,06	3EDA080AQKDQ2	0,84	3EDA125SGX0	0,43
3DHN0800BKBH5	1,04	3DHT1500BTBK5	1,96	3DNN100AQDDQ2	0,62	3DNT2000QKTQ2	1,99	3EDA080AQKTQ2	0,88	3EDA125SGXD	0,48
3DHN0800BKBK5	1,19	3DHT1500QK0Q2	1,91	3DNN100AQF0Q2	0,66	3DNT2000QS0Q2	1,45	3EDA1000QD0Q2	0,44	3EDA125SQM0	0,39
3DHN0800QK0Q2	0,68	3DHT1500QKDQ2	2,08	3DNN100AQFDQ2	0,71	3DNT2000QSDQ2	1,55	3EDA1000QDDQ2	0,57	3EDA125SQMD	0,43
3DHN0800QKDQ2	0,84	3DHT1500QKTQ2	2,11	3DNN100AQG0Q2	0,53	3DNT2000QSQQ2	1,56	3EDA1000QF0Q2	0,61	3EDA125SQX0	0,40
3DHN0800QKTQ2	0,87	3DHT1500QT0Q2	1,66	3DNN100AQGDQ2	0,61	3EDA050PFM0	0,16	3EDA1000QFDQ2	0,66	3EDA125SQXD	0,44
3DHN080AQD0Q2	0,36	3DHT1500QTDQ2	1,60	3DNN1250BKAH5	1,31	3EDA050PFT0	0,11	3EDA1000QG0Q2	0,48	3EDA125SVM0	0,41
3DHN080AQDDQ2	0,50	3DHT1500QTQQ2	1,61	3DNN1250BKAK5	1,46	3EDA050PFX0	0,16	3EDA1000QGDQ2	0,56	3EDA125SVMD	0,46
3DHN080AQF0Q2	0,53	3DHT2000BKAH5	2,95	3DNN1250BKBH5	1,29	3EDA050PFZ0	0,11	3EDA100AQK0Q2	0,76	3EDA125SVX0	0,42
3DHN080AQFDQ2	0,69	3DHT2000BKAK5	3,09	3DNN1250BKBK5	1,43	3EDA050PGM0	0,24	3EDA100AQKDQ2	0,92	3EDA125SVXD	0,46
3DHN080AQG0Q2	0,40	3DHT2000BKBH5	2,92	3DNN1250BSAH5	0,93	3EDA050PGMD	0,29	3EDA100AQKTQ2	0,95	3EDA1500FN0	0,45
3DHN080AQGDQ2	0,49	3DHT2000BKBK5	3,07	3DNN1250BSAK5	1,05	3EDA050PGX0	0,25	3EDA100PFN0	0,32	3EDA1500FS0	0,56
3DHN1000BKAH5	1,18	3DHT2000BTAH5	2,45	3DNN1250BSBH5	0,91	3EDA050PGXD	0,30	3EDA100PFS0	0,42	3EDA1500GS0	0,75
3DHN1000BKAK5	1,32	3DHT2000BTAK5	2,55	3DNN1250BSBK5	1,02	3EDA050PQM0	0,21	3EDA100PGS0	0,57	3EDA1500GSD	0,82
3DHN1000BKBH5	1,15	3DHT2000BTBH5	2,43	3DNN1250QH0Q2	0,60	3EDA050PQMD	0,25	3EDA100PGSD	0,63	3EDA1500QK0Q2	1,09

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
3EDA1500QKDQ2	1,26	3EDN125ABSAH5	0,84	3EGA0500VL02P	0,18	3ENA050PQXD	0,25	3ENA125LQSD	0,62	3EPA0800FL0	0,22
3EDA1500QKTQ2	1,28	3EDN125ABSAK5	0,95	3EGA0500VL0DP	0,21	3ENA050PVM0	0,23	3ENA125LVS0	0,59	3EPA0800GL0	0,27
3EDA1500QS0	0,68	3EDN125ABSBH5	0,81	3EGA0500VL0P	0,18	3ENA050PVMD	0,27	3ENA125LVSD	0,65	3EPA0800QL0	0,23
3EDA1500QSD	0,75	3EDN125ABSBK5	0,94	3EGA0500VLD2P	0,22	3ENA050PVX0	0,23	3ENA125SFM0	0,36	3EPA0800VL0	0,25
3EDA1500VS0	0,72	3EDN125AQH0Q2	0,50	3EGA0500VLDDP	0,35	3ENA050PVXD	0,27	3ENA125SFT0	0,22	3JDN1250B0AHL	1,50
3EDA1500VSD	0,79	3EDN125AQHDQ2	0,57	3EGA0500VLDP	0,21	3ENA0750FM0	0,19	3ENA125SFX0	0,36	3JDN1250B0AKG	1,73
3EDN0600QD0Q2	0,31	3EDN125AQHQQ2	0,58	3EGA050LFL0P	0,21	3ENA0750FT0	0,14	3ENA125SFZ0	0,22	3JDN1250B0BHL	1,46
3EDN0600QDDQ2	0,42	3EDN125AQK0Q2	0,82	3EGA050LGL0P	0,29	3ENA0750FX0	0,19	3ENA125SGM0	0,40	3JDN1250B0BKG	1,68
3EDN0600QF0Q2	0,48	3EDN125AQKDQ2	0,99	3EGA050LGLDP	0,36	3ENA0750FZ0	0,14	3ENA125SGMD	0,44	3JDN1250B0ZHA	1,61
3EDN0600QFDQ2	0,33	3EDN125AQKTQ2	1,02	3EGA050LQL0P	0,21	3ENA0750GM0	0,29	3ENA125SGX0	0,40	3JDN1250C000C	1,12
3EDN0600QG0Q2	0,35	3EDN125AQS0Q2	0,50	3EGA050LQLDP	0,25	3ENA0750GMD	0,33	3ENA125SGXD	0,44	3JDN1250C009C	1,32
3EDN0600QGDQ2	0,41	3EDN125AQSDQ2	0,51	3EGA050LVL0P	0,24	3ENA0750GX0	0,29	3ENA125SQM0	0,36	3JDN1250C00C1	2,81
3EDN0800QD0Q2	0,35	3EDN125AQSQQ2	0,52	3EGA050LVLDP	0,32	3ENA0750GXD	0,33	3ENA125SQMD	0,41	3JDN1250C0ZM1	1,65
3EDN0800QDDQ2	0,49	3EDT1500BKAH5	1,58	3EGA060LFL0P	0,26	3ENA0750QM0	0,24	3ENA125SQX0	0,36	3JDN1250F00C1	2,96
3EDN0800QF0Q2	0,52	3EDT1500BKAK5	1,73	3EGA060LGL0P	0,33	3ENA0750QMD	0,29	3ENA125SQXD	0,41	3JDN1500B0AHL	1,80
3EDN0800QFDQ2	0,68	3EDT1500BKBH5	1,55	3EGA060LGLDP	0,40	3ENA0750QX0	0,24	3ENA125SVM0	0,38	3JDN1500B0AKG	2,01
3EDN0800QG0Q2	0,40	3EDT1500BKBK5	1,70	3EGA060LQL0P	0,26	3ENA0750QXD	0,29	3ENA125SVMD	0,46	3JDN1500B0BHL	1,75
3EDN0800QGDQ2	0,49	3EDT1500BSAH5	1,31	3EGA060LQLDP	0,29	3ENA0750VM0	0,27	3ENA125SVX0	0,38	3JDN1500B0BKG	1,96
3EDN080ABKAH5	1,05	3EDT1500BSAK5	1,41	3EGA060LVL0P	0,29	3ENA0750VMD	0,32	3ENA125SVXD	0,46	3JDN1500B0ZHA	1,91
3EDN080ABKAK5	1,21	3EDT1500BSBH5	1,05	3EGA060LVLDP	0,36	3ENA0750VX0	0,27	3ENA1500FN0	0,41	3JDN1500C000C	1,40
3EDN080ABKBH5	1,03	3EDT1500BSBK5	1,14	3EGA0750GL0DP	0,60	3ENA0750VXD	0,32	3ENA1500FS0	0,51	3JDN1500C009C	1,60
3EDN080ABKBK5	1,17	3EDT1500QH0Q2	0,96	3EGA0750GLDDP	0,68	3ENA075LFN0	0,26	3ENA1500GS0	0,71	3JDN1500C00C1	3,09
3EDN080AQK0Q2	0,66	3EDT1500QHDQ2	1,03	3EGA0750QL0DP	0,53	3ENA075LFS0	0,36	3ENA1500GSD	0,77	3JDN1500F00C1	3,29
3EDN080AQKDQ2	0,83	3EDT1500QHQQ2	1,03	3EGA0750QLDDP	0,76	3ENA075LGS0	0,48	3ENA1500QS0	0,64	3JHN1250B0AHL	1,77
3EDN080AQKTQ2	0,86	3EDT1500QK0Q2	1,19	3EGA0750VL0DP	0,64	3ENA075LGSD	0,54	3ENA1500QSD	0,71	3JHN1250B0AKG	1,77
3EDN1000QD0Q2	0,47	3EDT1500QKDQ2	1,36	3EGA0750VLDDP	0,64	3ENA075LQS0	0,41	3ENA1500VS0	0,69	3JHN1250B0BHL	1,72
3EDN1000QDDQ2	0,59	3EDT1500QKTQ2	1,38	3EGA0800FL0P	0,34	3ENA075LQSD	0,48	3ENA1500VSD	0,76	3JHN1250B0BKG	1,94
3EDN1000QF0Q2	0,63	3EDT1500QS0Q2	0,96	3EGA0800GL0P	0,43	3ENA075LVS0	0,45	3EPA0300GL0	0,07	3JHN1250B0ZHA	1,87
3EDN1000QFDQ2	0,69	3EDT1500QSDQ2	1,02	3EGA0800GLDP	0,50	3ENA075LVSD	0,51	3EPA0300QL0	0,05	3JHN1250C000C	1,38
3EDN1000QG0Q2	0,51	3EDT1500QSQQ2	1,03	3EGA0800QL0P	0,36	3ENA100PFN0	0,31	3EPA0300VL0	0,07	3JHN1250C009C	1,58
3EDN1000QGDQ2	0,59	3EDT2000BKAH5	2,00	3EGA0800QLDP	0,39	3ENA100PFS0	0,41	3EPA0360GL0	0,07	3JHN1250C00C1	3,07
3EDN100ABKAH5	1,17	3EDT2000BKAK5	2,14	3EGA0800VL0P	0,39	3ENA100PGS0	0,55	3EPA0360QL0	0,53	3JHN1250C0ZM1	1,89
3EDN100ABKAK5	1,32	3EDT2000BKBH5	1,97	3EGA0800VLDP	0,46	3ENA100PGSD	0,62	3EPA0360VL0	0,07	3JHN1250F00C1	3,22
3EDN100ABKBH5	1,15	3EDT2000BKBK5	2,12	3EGA1000FL0P	0,40	3ENA100PQS0	0,48	3EPA0400FL0	0,11	3JHN1500B0AHL	2,10
3EDN100ABKBK5	1,29	3EDT2000BSAH5	1,63	3EGA1000GL0P	0,48	3ENA100PQSD	0,55	3EPA0400GL0	0,13	3JHN1500B0AKG	2,31
3EDN100ABSAH5	0,79	3EDT2000BSAK5	1,72	3EGA1000GLDP	0,57	3ENA100PVS0	0,52	3EPA0400QL0	0,10	3JHN1500B0BHL	2,05
3EDN100ABSAK5	0,90	3EDT2000BSBH5	1,57	3EGA1000QL0P	0,41	3ENA100PVSD	0,57	3EPA0400VL0	0,11	3JHN1500B0BKG	2,26
3EDN100ABSBH5	0,77	3EDT2000BSBK5	1,66	3EGA1000QLDP	0,45	3ENA100SFM0	0,18	3EPA0500FL0	0,11	3JHN1500B0ZHA	2,21
3EDN100ABSBK5	0,88	3EDT2000QH0Q2	1,15	3EGA1000VL0P	0,44	3ENA100SFT0	0,18	3EPA0500FL02	0,15	3JHN1500C000C	1,69
3EDN100AQH0Q2	0,39	3EDT2000QHDQ2	1,29	3EGA1000VLDP	0,53	3ENA100SFX0	0,18	3EPA0500GL0	0,13	3JHN1500C009C	1,89
3EDN100AQHDQ2	0,46	3EDT2000QHQQ2	1,29	3EGA1250FL0P	0,86	3ENA100SFZ0	0,18	3EPA0500GL02	0,15	3JHN1500C00C1	3,39
3EDN100AQHQQ2	0,46	3EDT2000QK0Q2	1,59	3EGA1250GL0P	0,93	3ENA100SGM0	0,34	3EPA0500GLD	0,15	3JHN1500F00C1	3,59
3EDN100AQK0Q2	0,78	3EDT2000QKDQ2	1,84	3EGA1250GLDP	1,04	3ENA100SGMD	0,39	3EPA0500GLD02	0,15	SCI00800A0	0,55
3EDN100AQKDQ2	0,95	3EDT2000QKTQ2	1,83	3EGA1250QL0P	0,76	3ENA100SGX0	0,34	3EPA0500GLD2	0,17	SCI01000A0	0,59
3EDN100AQKTQ2	0,98	3EDT2000QS0Q2	1,29	3EGA1250QLDP	0,80	3ENA100SGXD	0,39	3EPA0500QL0	0,10	SCI0100LA0	0,64
3EDN100AQS0Q2	0,46	3EDT2000QSDQ2	1,39	3EGA1250VL0P	0,79	3ENA100SQM0	0,31	3EPA0500QLD	0,13	SCI0100PC0	1,48
3EDN100AQSDQ2	0,46	3EDT2000QSQQ2	1,40	3EGA1250VLDP	0,91	3ENA100SQMD	0,36	3EPA0500VL0	0,11	SCI0100RC0	1,48
3EDN100AQSQQ2	0,46	3EGA0500FL02P	0,21	3ENA050PFM0	0,15	3ENA100SQX0	0,31	3EPA0500VL02	0,12	SCI01250A0	0,70
3EDN1250QD0Q2	0,53	3EGA0500GL02P	0,20	3ENA050PFT0	0,11	3ENA100SQXD	0,36	3EPA0500VLD	0,14	SCI01250B0	0,70
3EDN1250QDDQ2	0,67	3EGA0500GL0DP	0,35	3ENA050PFX0	0,15	3ENA100SVM0	0,33	3EPA0500VLD2	0,14	SCI0125LC0	1,48
3EDN1250QF0Q2	0,70	3EGA0500GL0P	0,19	3ENA050PFZ0	0,11	3ENA100SVMD	0,38	3EPA050LFL0	0,18	SCI0125RC0	1,48
3EDN1250QFDQ2	0,78	3EGA0500GLD2P	0,24	3ENA050PGM0	0,24	3ENA100SVX0	0,33	3EPA050LGL0	0,21	SCI01500B0	0,74
3EDN1250QG0Q2	0,58	3EGA0500GLDDP	0,39	3ENA050PGMD	0,29	3ENA100SVXD	0,38	3EPA050LQL0	0,18	SCI01600C0	1,58
3EDN1250QGDQ2	0,66	3EGA0500GLDP	0,23	3ENA050PGX0	0,24	3ENA125LFN0	0,36	3EPA050LVL0	0,19	SCI0160RC0	1,54
3EDN125ABKAH5	1,21	3EGA0500QL0DP	0,28	3ENA050PGXD	0,29	3ENA125LFS0	0,46	3EPA060LFL0	0,20	SCI01800C0	1,58
3EDN125ABKAK5	1,36	3EGA0500QL0P	0,16	3ENA050PQM0	0,20	3ENA125LGS0	0,61	3EPA060LGL0	0,23	SCI02000C0	1,65
3EDN125ABKBH5	1,19	3EGA0500QLDDP	0,31	3ENA050PQMD	0,25	3ENA125LGSD	0,68	3EPA060LQL0	0,20	SCII0800A9	0,72
3EDN125ABKBK5	1,33	3EGA0500QLDP	0,20	3ENA050PQX0	0,20	3ENA125LQS0	0,55	3EPA060LVL0	0,22	SCII1000A9	0,76

COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg	COD	Kg
SCII100LA9	0,83	SFG0080CB0	0,44	SFX01500B0	0,38	SGHD150LC9	2,71	SGR01800C0	1,36	SGTD1600CIN	1,48
SCII100PC9	1,75	SFG0080CC0	0,44	SFX01600C0	0,73	SGHD1600C9	2,71	SGR02000C0	1,39	SGTD1750CYN	1,55
SCII100RC9	1,75	SFG0100CB0	0,45	SFX0160RC0	0,73	SGHD2000C9	2,88	SGRI0800A9	0,66	SGTD1800CIN	1,55
SCII1250A9	0,89	SFH0100LC0	1,27	SFX02000C0	0,85	SGHD2500C9	3,10	SGRI1000A9	0,70	SGTD1800CVN	1,55
SCII1250B9	0,90	SFH0125LC0	1,36	SGD00800A0N	0,42	SGHR125LC9	2,63	SGRI100LA9	0,75	SGTD2000CGN	1,58
SCII125LC9	1,76	SFH01600C0	1,55	SGD01000B0N	0,49	SGHR150LC9	2,71	SGRI100PC9	1,44	SGTD2000CWN	1,58
SCII125RC9	1,76	SFH02000C0	1,88	SGD0100LC0N	0,83	SGHR1600C9	2,71	SGRI100RC9	1,44	SGV0100LB0	1,45
SCII1500B9	0,93	SFH02500C0	2,12	SGD0100SA0N	0,44	SGHR2000C9	2,88	SGRI1250A9	0,80	SGV0100PC0	2,64
SCII1600C9	1,85	SFI00800A0	0,26	SGD01250B0N	0,56	SGHR2500CA	3,10	SGRI1250B9	0,80	SGV01250B0	1,52
SCII160RC9	1,81	SFI01000A0	0,30	SGD0125LC0N	0,89	SGIC125LCB	1,39	SGRI125LC9	1,49	SGV0125LC0	2,89
SCII1800C9	1,85	SFI0100LA0	0,30	SGD01500B0N	0,59	SGIC1600CB	1,49	SGRI125RC9	1,49	SGV01600C0	2,90
SCII2000C9	1,92	SFI0100PC0	0,68	SGD01600C0N	0,99	SGIC1800CB	1,49	SGRI1500B9	0,82	SGV0160PC0	2,95
SCY00800A0	0,72	SFI0100RC0	0,70	SGD01800C0N	1,04	SGIC2000CB	1,55	SGRI1600C9	1,56	SGV02000C0	3,05
SCY01000A0	0,76	SFI01250A0	0,34	SGD02000C0N	1,07	SGIE125LCA	1,35	SGRI160RC9	1,49	SGV0200DE0	3,05
SCY0100LA0	0,83	SFI01250B0	0,34	SGDD0800APN	0,56	SGIE125LCAI	1,35	SGRI1800C9	1,60	SGV02500C0	3,35
SCY0100PC0	1,75	SFI0125LC0	0,70	SGDD1000BLN	0,62	SGIE1600CAC	1,42	SGRI2000C9	1,63	SGV0250CE0	5,05
SCY0100RC0	1,75	SFI0125RC0	0,70	SGDD100LCKN	1,13	SGIE1600CAD	1,42	SGRP125LC9	0,00	SGV0250ME0	3,50
SCY01250B0	0,89	SFI0125SA0	0,34	SGDD100SAPN	0,59	SGIE1800CAC	1,46	SGRP125RC9	0,00	SGV0300CE0	5,30
SCY0125LC0	0,90	SFI01500B0	0,38	SGDD1250BLN	0,69	SGIE1800CAD	1,46	SGRP1600C9	0,00	SGVN100LB9	1,69
SCY0125RC0	1,76	SFI01600C0	0,92	SGDD125LCJN	1,15	SGIE2000CAC	1,49	SGRP160RC9	0,00	SGVN100PC9	3,18
SCY01500B0	1,76	SFI0160RC0	0,92	SGDD125LCKN	1,15	SGIE2000CAD	1,49	SGRP1800C9	0,00	SGVN1250B9	1,76
SCY01600C0	0,93	SFI01800C0	0,89	SGDD1500BMN	0,72	SGM0125LC0	1,39	SGRP2000C9	0,00	SGVN125LC9	3,42
SCY0160RC0	1,22	SFI02000C0	1,03	SGDD1500CJN	1,29	SGM01600C0	1,48	SGRR100PCE	1,82	SGVN1600C9	3,43
SCY02000C0	1,31	SFM01000B0	0,54	SGDD1600CIN	1,29	SGM01800C0	1,53	SGRR100RCE	1,83	SGVN160PC9	3,49
SCYI0800A9	0,72	SFM0100LC0	0,93	SGDD1600CVN	1,29	SGM02000C0	1,55	SGRR125LCE	1,84	SGVN2000C9	3,58
SCYI1000A9	0,76	SFM01250B0	0,63	SGDD1750CYN	1,34	SGM02500C0	1,86	SGRR125RCE	1,84	SGVN200DE9	3,60
SCYI100LA9	0,83	SFM0125LC0	0,93	SGDD1800CIN	1,34	SGM02800C0	3,50	SGRR1600CE	1,85	SGVN2500C9	3,88
SCYI100PC9	1,75	SFM01500B0	0,64	SGDD1800CVN	1,34	SGMI125LC9	1,67	SGRR2000CC	1,90	SGVN250CE9	5,60
SCYI100RC9	1,75	SFM01600C0	1,12	SGDD2000CGN	1,36	SGMI1600C9	1,76	SGRT0800A0	0,52	SGVN250ME9	4,05
SCYI1250B9	0,90	SFM0160AC0	1,12	SGDD2000CWN	1,36	SGMI1800C9	1,80	SGRT1000A0	0,54	SGVN300CE9	5,90
SCYI125LC9	1,76	SFM01800C0	1,25	SGE00850E0	5,99	SGMI2000C9	1,82	SGRT100LA0	0,60	SGX00800A0	0,52
SCYI125RC9	1,76	SFM02000C0	1,29	SGE01250E0	6,20	SGMI2500C9	0,00	SGRT100PC0	1,15	SGX01000A0	0,56
SCYI1500B9	0,93	SFM0200AC0	1,30	SGE01600E0	6,32	SGMP125LC9	0,00	SGRT1250B0	0,65	SGX0100LA0	0,60
SCYI1600C9	1,85	SFM0200TC0	1,30	SGE0160PE0	9,66	SGMP1600C9	0,00	SGRT125LC0	1,25	SGX0100PC0	1,08
SCYI160RC9	1,81	SFM02500C0	1,50	SGE0180PE0	9,86	SGMP1800C9	0,00	SGRT1500B0	0,65	SGX0100RC0	0,86
SCYI1750C9	1,85	SFM02800C0	2,16	SGE02000E0	6,43	SGMP2000C9	0,00	SGRT1600C0	1,32	SGX01250B0	0,65
SCYI2000C9	1,92	SFP0300EG0	2,40	SGE0200PE0	11,16	SGP0125DC0	2,50	SGRT1800C0	1,36	SGX0125LC0	1,11
SFD01000B0	0,54	SFV0100LB0	1,05	SGE0250PE0	11,22	SGP0160DC0	2,70	SGRT2000C0	1,39	SGX0125RC0	1,01
SFD0100LC0	0,93	SFV0100PC0	1,60	SGE02800E0	11,66	SGP0200DC0	3,00	SGT00800A0N	0,45	SGX01500B0	0,68
SFD01250B0	0,63	SFV01250B0	1,80	SGE03100E0	12,16	SGP0300EG0	3,50	SGT01000B0N	0,52	SGX01600C0	1,18
SFD0125LC0	1,11	SFV0125LC0	1,86	SGE04100F0	21,46	SGPN125DC9	3,00	SGT0100LC0N	0,83	SGX0160RC0	1,16
SFD01500B0	0,64	SFV01600C0	1,90	SGG0063AA0	0,36	SGPN160DC9	3,20	SGT0100SA0N	0,47	SGX02000C0	1,25
SFD01600C0	1,25	SFV0160PC0	2,10	SGG0076CB0	0,73	SGPN200DC9	3,50	SGT01250B0N	0,59	SGXI0800A9	0,68
SFD01800C0	1,29	SFV02000C0	2,24	SGG0080CB0	0,75	SGPN300EG9	4,00	SGT0125LC0N	0,89	SGXI1000A9	0,72
SFD02000C0	1,30	SFV0200DE0	2,80	SGG0080CD0	1,19	SGR00800A0	0,53	SGT01500B0N	0,62	SGXI100LA9	0,77
SFE00850E0	2,80	SFV02500C0	2,39	SGG0100CB0	0,76	SGR0080AA0	0,53	SGT01600C0N	1,18	SGXI100PC9	1,35
SFE01250E0	3,60	SFV0250CE0	3,10	SGG0125CB0	0,79	SGR01000A0	0,55	SGT01800C0N	1,25	SGXI100RC9	1,13
SFE01600E0	3,74	SFV0250ME0	2,80	SGGF063AA9	0,36	SGR0100AA0	0,55	SGT02000C0N	1,29	SGXI1250B9	0,83
SFE0160PE0	5,90	SFV0300CE0	3,40	SGGF076CB9	0,73	SGR0100LA0	0,60	SGTD0800APN	0,59	SGXI125LC9	1,38
SFE0180PE0	6,20	SFX00800A0	0,26	SGGF080CB9	0,75	SGR0100PC0	1,20	SGTD1000BLN	0,67	SGXI125RC9	1,28
SFE02000E0	2,65	SFX01000A0	0,30	SGGF100CB9	0,76	SGR0100RC0	1,20	SGTD100LCKN	1,13	SGXI1500B9	0,86
SFE0200PE0	6,94	SFX0100LA0	0,33	SGGF125CB9	0,79	SGR01250A0	0,65	SGTD100SAPN	0,62	SGXI1600C9	1,45
SFE0250PE0	7,45	SFX0100PC0	0,57	SGH0100LC0	2,10	SGR01250B0	0,65	SGTD1250BLN	0,73	SGXI160RC9	1,43
SFE02800E0	8,00	SFX0100RC0	0,57	SGH0125LC0	2,15	SGR0125LC0	1,25	SGTD1250BMN	0,00	SGXI1750C9	0,00
SFE03100E0	8,00	SFX01250B0	0,38	SGH01600C0	2,23	SGR0125RC0	1,25	SGTD125LCJN	1,19	SGXI2000C9	1,52
SFE04100F0	15,34	SFX0125LC0	0,65	SGH02000C0	2,38	SGR01500B0	0,67	SGTD125LCKN	1,19	SGXP100PC9	0,00
SFG0063AA0	0,24	SFX0125RC0	0,70	SGH02500C0	2,62	SGR01600C0	1,32	SGTD1500BMN	0,76	SGXP100RC9	0,00
SFG0076CB0	0,41	SFX0125SA0	0,38	SGHD125LC9	2,63	SGR0160RC0	1,32	SGTD1500CKN	1,48	SGXP125LC9	0,00

COD	Kg	COD	Kg	COD	Kg
SGXP125RC9	0,00	**SQX0125RC0**	1,14	**SVY0160RC0**	1,12
SGXP1600C9	0,00	**SQX01500B0**	0,56	**SVY02000C0**	1,21
SGXP2000C9	0,00	**SQX01600C0**	1,31	**SVYI0800A9**	0,64
SGXR100PCG	1,57	**SQX0160RC0**	1,29	**SVYI1000A9**	0,68
SGXR100RCG	1,57	**SQX02000C0**	1,38	**SVYI100LA9**	0,73
SGXR125LCG	1,59	**SQXI0800A9**	0,56	**SVYI100PC9**	1,31
SGXR125RCG	1,59	**SQXI1000A9**	0,60	**SVYI100RC9**	1,09
SGXR1600CG	1,61	**SQXI100LA9**	0,65	**SVYI1250B9**	0,79
SGXR2000CH	1,66	**SQXI100PC9**	1,48	**SVYI125LC9**	1,34
SGY0125DC0	1,75	**SQXI100RC9**	1,26	**SVYI125RC9**	1,24
SGY0160DC0	2,58	**SQXI1250B9**	0,71	**SVYI1500B9**	0,82
SGY0200DC0	2,75	**SQXI125LC9**	1,51	**SVYI1600C9**	1,41
SGYN125DC9	3,03	**SQXI125RC9**	1,26	**SVYI160RC9**	1,39
SGYN160DC9	3,18	**SQXI1500B9**	0,73	**SVYI1750C9**	0,00
SGYN200DC9	3,35	**SQXI1600C9**	1,58	**SVYI2000C9**	1,48
SQG0076CB0	0,00	**SQXI160RC9**	1,56		
SQG0080CB0	0,00	**SQXI1750C9**	0,00		
SQG0100CB0	0,00	**SQXI2000C9**	1,65		
SQG0125CB0	0,00	**SVG0063AA00J**	0,00		
SQGF076CB9	0,00	**SVGF063AA90J**	0,00		
SQGF080CB9	0,00	**SVI00800A0**	0,47		
SQGF100CB9	0,00	**SVI01000A0**	0,51		
SQGF125CB9	0,00	**SVI0100LA0**	0,54		
SQR00800A0	0,40	**SVI0100PC0**	1,11		
SQR01000A0	0,44	**SVI0100RC0**	1,11		
SQR0100LA0	0,47	**SVI01250A0**	0,60		
SQR0100PC0	0,97	**SVI01250B0**	0,60		
SQR0100RC0	0,97	**SVI0125LC0**	1,11		
SQR01250A0	0,53	**SVI0125RC0**	1,11		
SQR01250B0	0,53	**SVI01500B0**	0,64		
SQR0125LC0	0,98	**SVI01600C0**	1,21		
SQR0125RC0	0,98	**SVI0160RC0**	1,17		
SQR01500B0	0,57	**SVI01800C0**	1,20		
SQR01600C0	1,07	**SVI02000C0**	1,28		
SQR0160RC0	1,03	**SVII0800A9**	0,64		
SQR01800C0	1,07	**SVII1000A9**	0,68		
SQR02000C0	1,14	**SVII100LA9**	0,73		
SQRI0800A9	0,57	**SVII100PC9**	1,38		
SQRI1000A9	0,61	**SVII100RC9**	1,38		
SQRI100LA9	0,66	**SVII1250A9**	0,79		
SQRI100PC9	1,25	**SVII1250B9**	0,80		
SQRI100RC9	1,25	**SVII125LC9**	1,39		
SQRI1250A9	0,72	**SVII125RC9**	1,39		
SQRI1250B9	0,73	**SVII1500B9**	0,83		
SQRI125LC9	1,26	**SVII1600C9**	1,48		
SQRI125RC9	1,26	**SVII160RC9**	1,44		
SQRI1500B9	0,76	**SVII1800C9**	1,48		
SQRI1600C9	1,35	**SVII2000C9**	1,55		
SQRI160RC9	1,31	**SVY00800A0**	0,48		
SQRI1800C9	1,35	**SVY01000A0**	0,52		
SQRI2000C9	1,42	**SVY0100LA0**	0,56		
SQX00800A0	0,40	**SVY0100PC0**	1,04		
SQX01000A0	0,44	**SVY0100RC0**	0,82		
SQX0100LA0	0,48	**SVY01250B0**	0,61		
SQX0100PC0	1,21	**SVY0125LC0**	1,07		
SQX0100RC0	0,99	**SVY0125RC0**	0,97		
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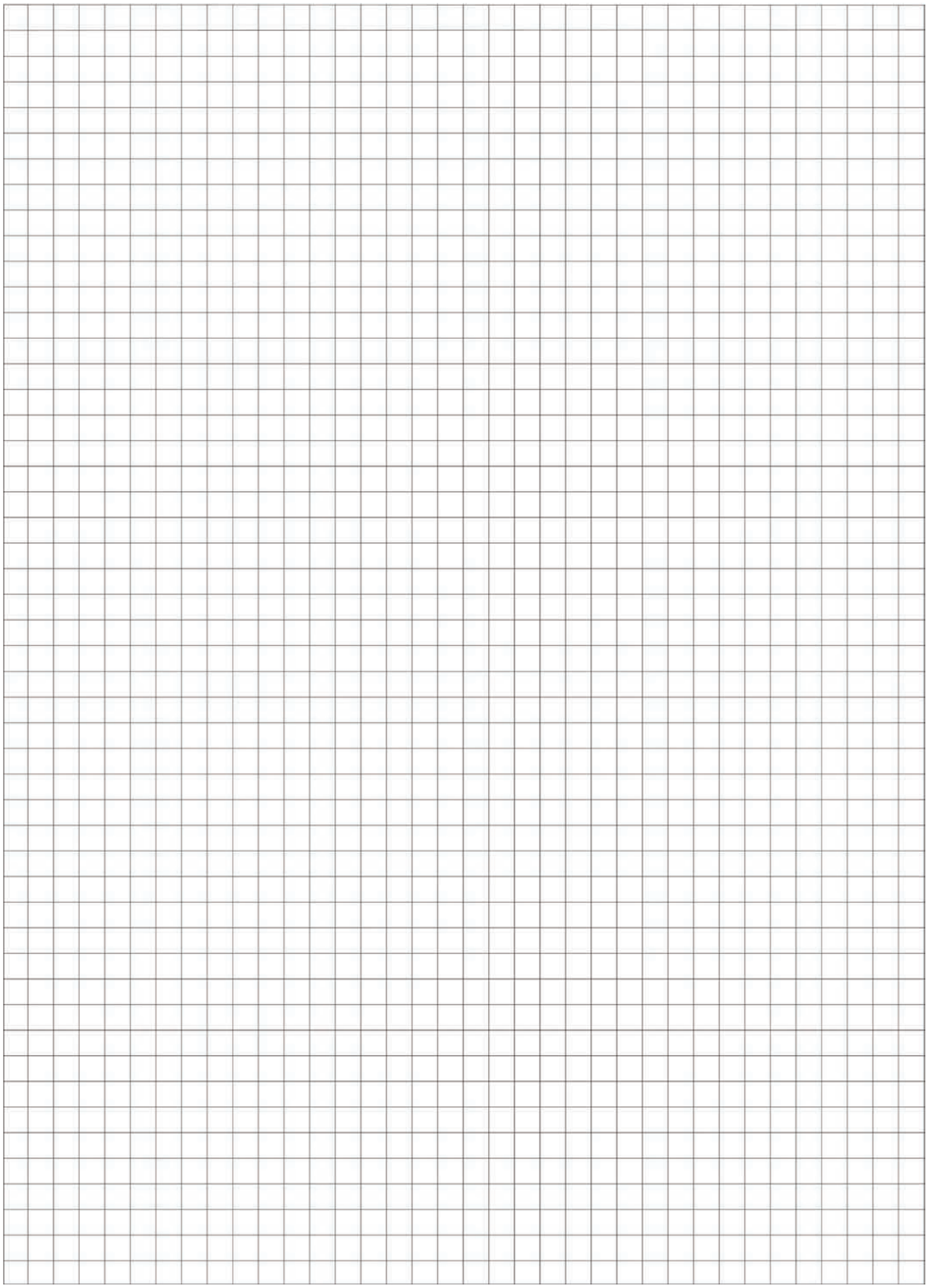
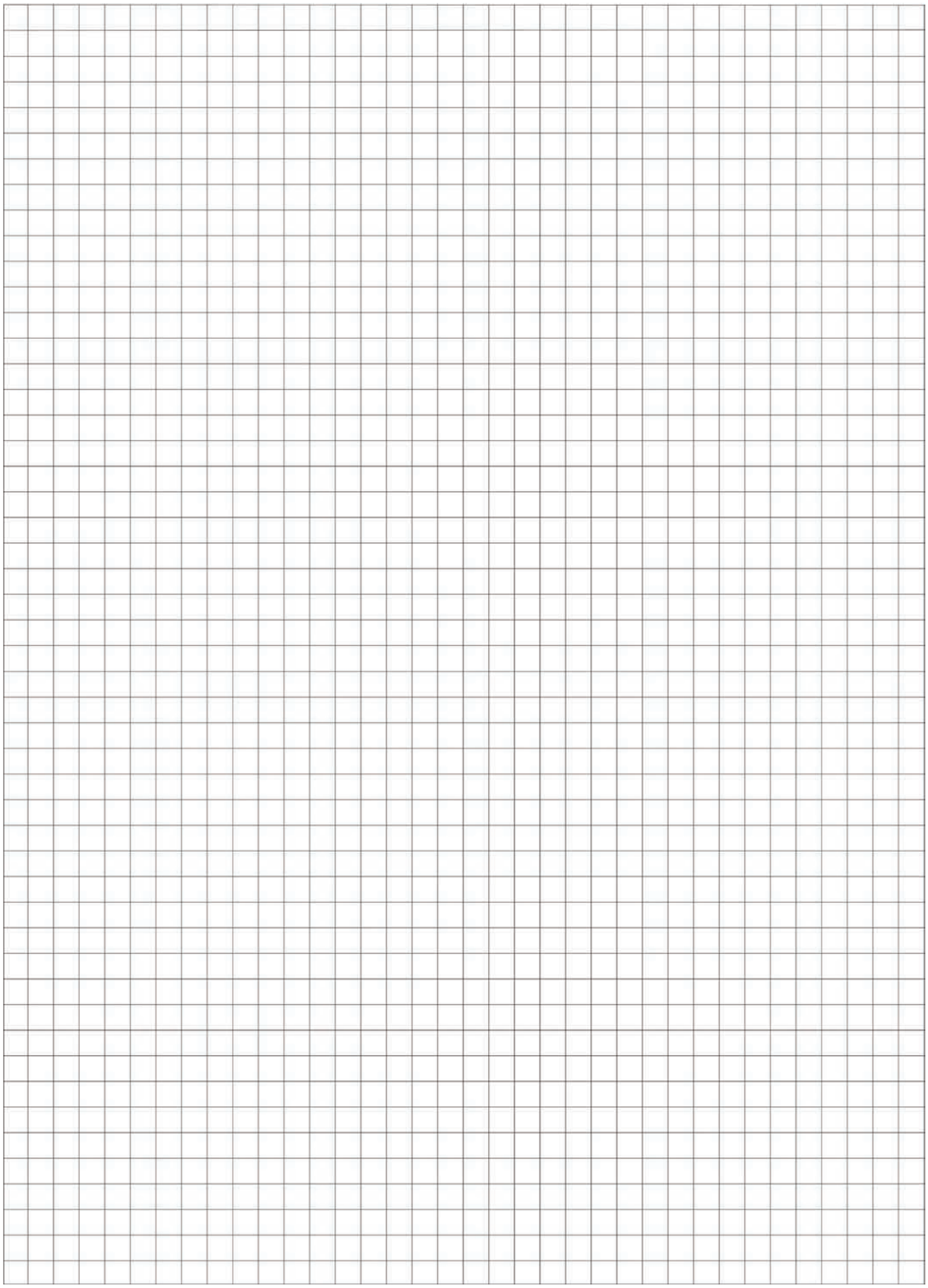
SQX0125LC0	1,24	**SVY01600C0**	1,14		





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WWW.NERVIANI.IT / INFO@NERVIANI.IT

OFFICINE MECCANICHE GINO NERVIANI
STRADA STATALE 32 N° 59 - 28050 POMBIA (NO) TEL
+39.0321.950511 - FAX +39.0321.950590