
Product information

Dear customer,

in compliance with the liability of the manufacturer for his products as defined in the „product liability law“ (§ 4 ProdukthaftG) the following information on wheels and castors is to be observed. In the event of any non-compliance the manufacturer will be discharged from his liability.

1.0 Product information and intended use

Wheels and castors in the sense of this definition are components, which can in general be exchanged and can be fitted to appliances, furniture and transport systems or any similar products intended for this use to make them mobile.

This product information refers to wheels and castors, especially passive steering castors (swivel castors), for vehicles and appliances which are not machine driven, hereafter called objects, which are usually not driven faster than walking speed and are not in continuous operation.

Wheels and castors in the sense of this product information can be classified into the following fields of application:

Living quarters e.g. seating furniture, home furniture

Services

- general services e.g. shopping carts, office machines
- hospitals e.g. hospital beds

Industry

e.g. transport equipment, medium and heavy load capacity

Correct mounting is an important factor for the intended use:

- a) The product must be firmly connected to the object at all points intended for this.
- b) The object must be of sufficient stability at these points.
- c) The function of the product must not be affected or modified by the mounting.
- d) The swivel bearing king pin axis must be vertical at all times.
- e) Fixed castors must be mounted in such a way that the axles are in alignment.
- f) On one object, swivel castors of the same design are to be used. If fixed castors are mounted, too, only castors recommended by the manufacturer are to be used.

Specially designed products must be specified for humid environments, if subject to direct weather exposure, near the sea or for use in aggressive, corrosion-developing environments.

Specially designed products must be specified for use at temperature ranges below 5 °C and above 30 °C. Under these conditions, standard products must under no circumstances be operated at their nominal load.

Wheel, bracket, brake system and axle components form one functional unit. Liability only exists for our original products.

All possible loads must be known when selecting the castors. Otherwise these must be taken into account with an increased safety factor.

2.0 Misuse

There is product misuse – i.e. wheels and castors are not operated according to their intended use – if

- 2.1 wheels and castors are operated with a higher load than the max. load capacity specified in the catalogue.
- 2.2 they are used on unsuitable, uneven floors.
- 2.3 the ambient temperature is too high or too low.
- 2.4 the equipment is moved by force while the wheels are locked.
- 2.5 especially aggressive media can affect them.
- 2.6 improper shock loading takes effect.
- 2.7 foreign matter can penetrate the tyres.
- 2.8 the wheels and castors are used at excessive speed.
- 2.9 modifications are carried out which have not been agreed to by the manufacturer.

3.0 Product characteristics

Unless the product characteristics have been precisely defined in our catalogues, leaflets, specifications etc., the demands made on our wheels and castors or their components must be agreed with us.

As a guideline, the relevant DIN-, ISO- and CEN-standards as well as the quality standard RAL-RG 607/10 are applied.

4.0 Product maintenance

Depending on the requirements, wheels and castors must be serviced regularly

- by lubricating the bearings
- by readjusting any detachable connections.

Only cleaning agents which do not contain any corrosive or damaging components may be used.

As soon as malfunctions occur, castors or their components must be replaced.

5.0 Duty to inform and instruct

In order to fulfil the duties to inform and instruct as well as for carrying out maintenance work according to the product liability law the following documentation is available:

- for the trade: catalogues with product and user information
- for the manufacturer: catalogues with product and user information
- for the user: product and user information

In order to guarantee the function of wheels and castors

- the trade is obliged to observe this product information (point 1.0 – 5.0) and the user information, to request them from the producer if required and to hand them over to the manufacturer.
- the manufacturers are obliged to observe this product information (point 1.0 – 5.0) and the user information, to request them from the producer or the trade if required and to hand it over to the user.

Symbols

	Artikelcode article code référence article código artículo codice articolo		Ausladung Lenkrolle offset déport desplazamiento disassamento		Nabenlänge hub length longueur du moyeu longitud del cubo lunghezza mozzo
	Eigengewicht (kg) article weight poids de l'article peso propio peso proprio		Rückenloch - Ø single bolt hole diameter diamètre du trou central de fixation diámetro pasador central diametro foro di fissaggio		Naben - Ø hub diameter diamètre du moyeu diámetro del cubo diametro mozzo
	Tragkraft (kg) load capacity capacité de charge capacidad de carga portata		Zapfen - Ø stem diameter diamètre de la tige diámetro espiga diametro codolo		Rille für Seil - Ø grooved width largeur de la gorge esiría para cable - Ø incavo per corda - Ø
Räder	wheels roues ruedas ruote	Laufrollen	pallet rollers galets rodillos rulli		Bohrung für Achse bore diameter alésage pour axe taladro para eje diametro foro
	Rad - Ø wheel diameter diamètre de roue diámetro de rueda diametro ruota		Rollen - Ø roller diameter diamètre du galet diámetro de rodillo diametro rulli		Spurkranzräder single-flanged wheels roues à boudin ruedas con pestaña ruote decauville
	Radbreite wheel width largeur de roue anchura de rueda larghezza ruota		Rollenbreite roller width largeur de galet anchura de rodillo larghezza rulli		Radbreite tread width largeur de la roue anchura de rueda larghezza ruote
	Einspannlänge fixing length longueur hors tout longitud de montaje lunghezza di montaggio		Einspannlänge fixing length longueur hors tout longitud de montaje lunghezza montaggio		Laufkranzbreite tread width largeur de la couronne de roulement anchura banda de rodadura larghezza superficie di scorrimento
	Nabenlänge hub length longueur du moyeu largo del cubo lunghezza mozzo		Kugellagersitz bearing seat dimensions dimensions du siège de roulement alojamiento para rodamientos dimensione sedi		Einbautiefe fitting depth profondeur de montage profundidad de montaje profondi tà di motaggio
	Naben - Ø hub diameter diamètre du moyeu diámetro del cubo diametro mozzo	Bandagen	press-on tyres bandages bandajes anelli		Nabenlänge hub length largeur du moyeu longitud del cubo lunghezza mozzo
	Befestigung rim fixing holes fixations taladros de fijación fori di fissaggio		Außen - Ø (D) outer diameter diamètre extérieur diámetro exterior diametro esterno		Naben - Ø hub diameter diamètre du moyeu diámetro del cubo diametro mozzo
	Felgenaußen - Ø outer rim diameter diamètre extérieur de jante diámetro exterior de llanta diametro esterno di cerchione		Breite (W) tread width largeur du bandage anchura de la banda de rodadura larghezza fascia ruota		Doppel- Spurkranzräder double-flanged wheels roues à deux boudins ruedas con dos pestañas ruote di bordino doppio
	Felgeninnen - Ø inner rim diameter diamètre intérieur de jante diámetro interior de llanta diametro interno di cerchione		Innen - Ø (d) inner diameter diamètre intérieur diámetro interior diametro interno		Radbreite tread width largeur de la roue anchura de rueda larghezza ruota
	Bohrung bore hole diameter alésage diámetro del taladro diametro foro mozzo		Fuß / Grad (km/ks) center and side split degree talon symétrique/asymétrique base/grado base/grado		Nabenlänge hub length largeur du moyeu longitud del cubo lunghezza mozzo
Rollen	castors rouleottes soportes completos supporti completi	ZOLL	Abmessung in Zoll inch dimensions dimensions en pouces medidas pulgadas misure pollici		Naben - Ø hub diameter diamètre du moyeu diámetro del cubo diametro mozzo
	Bauhöhe overall height hauteur totale altura total altezza totale	Seil- und Türrollen	grooved wheels roues à boudin rodanas rulli		Nutbreite groove width largeur de la gorge ancho de ranura larghezza di scanalatura
	Plattengröße top plate size dimensions de la platine dimensiones platina dimensioni piastra		Spurkranz - Ø flange diameter diamètre du boudin diámetro de pestaña diametro bordino		Nuttiefe groove depth profondeur de la gorge profundidad de ranura profondità di scanalatura
	Lochbild bolt hole spacing entr'axes des trous de fixation entrecentos interassi fori piastra		Laufkranz - Ø tread diameter diamètre de la couronne de roulement diámetro banda de rodadura diametro superficie di scorrimento		
	Schraubloch - Ø bolt hole diameter diamètre de trou diámetro taladros diametro fori piastra		Rollenbreite tread width largeur de la roue anchura de roldana larghezza rulli		