

PRODUCT INFORMATION

ZETA

 300 - 800 kg  164 - 290 mm  125 - 250 mm



TENTE

BETTER MOBILITY. BETTER LIFE.

HOUSINGS

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WHEELS

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FITTINGS

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BETTER MOBILITY IN PREMIUM QUALITY

TENTE believes in smart mobility solutions which noticeably improve people's lives and their work environment. TENTE solutions increase productivity, ensure safety and open up new horizons in matters of design and durability as well as environmental friendliness. Leading manufacturers and companies of different industries rely on these competencies and our high production quality.

On the following pages you will find technical information about our Zeta product family. We will also demonstrate the added value this mobility solution offers to your organisation.

Ergonomic foot pedal

Easily accessible and extra long operating pedal for manual directional lock.

Optimised directional lock

Directional lock can be adjusted to 2 x 180° to meet your requirements.

Automatic alignment

When picked up, the castor is automatically aligned in the direction of travel.

HOUSINGS



FEATURES



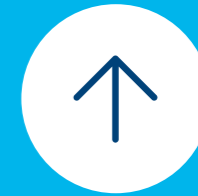
Optimised steering mechanism

Directional lock for improved steering around bends, as well as moving in a straight line for tigger trains.



Increased occupational safety

Partially elastic foot protection to reduce accidents. Also used on uneven floors.



Automatic alignment

When picked up, the castor is automatically aligned in the direction of travel.



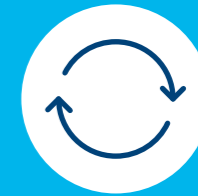
Ergonomic foot pedal

Easily accessible operating pedal for manual directional lock.



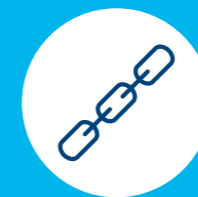
Secured stand

Total lock for simultaneously locking the wheel and swivel housing.



Easy steering

Double ball bearing swivel head.



Heavy duty construction

Extra heavy steel housing for high load capacity.



Quick maintenance

The swivel bearing is lubricated with long-life grease and is fitted with a grease dispenser for easy maintenance.



Optimised directional lock

Directional lock can be adjusted to 2 x 180° to meet your requirements.

HOUSINGS

The housing is made of reinforced extra heavy pressed steel for high load capacity. Easy steering can be guaranteed by two hardened ball races in the swivel head which are lubricated with long-life grease and fitted with a grease dispenser for easy maintenance. The swivel bearing has a dust ring for continuous, uninterrupted movement.



Swivel castor
Swivel housing for easy manoeuvrability in all directions.



Automatic directional stability
Whenever the castor is picked up, it automatically aligns in the direction of travel.



Automatic directional stability
The housing is equipped with two springs for automatic alignment in 2 x 180° position. It is also perfect for the use of automatic guided vehicles. Whenever the castor is picked up, it automatically aligns in the direction of travel. This avoids damage and reduces maintenance costs. Contact us to see how to adjust the 2 x 180° position to fit your requirements.



Directional lock
Directional lock for improved steering around bends, as well as for moving in a straight line over a long distance.



Total lock
Total lock for locking the wheel and swivel housing simultaneously for a secure standing.



Fixed castor
Wheel and housing are fix for standard functionality. The castor is continuously aligned in the direction of travel.



Optional washable
For washable castors please contact us.



Ergonomic foot pedal

Easily accessible operating pedal for manual directional lock available as alternative.



Increased occupational safety

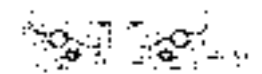
The partially elastic foot protection helps to reduce accidents. Also used on uneven floors. It is available for all wheel diameters. Can be retrofitted. See page 19.

Technical data and availability



Description	Housing type	Swivel castor	Swivel castor with automatic directional stability 2 x 180°	Swivel castor with directional lock	Swivel castor with total lock	Swivel castor with total lock and automatic directional stability 2 x 180°	Fixed castor
	Article description	4680	468S	4681	4687	468B	4688
	Material	Very heavy pressed steel	Very heavy pressed steel	Very heavy pressed steel	Very heavy pressed steel	Very heavy pressed steel	Very heavy pressed steel
	Swivel bearing	Two hardened ball races	Two hardened ball races	Two hardened ball races	Two hardened ball races	Two hardened ball races	-
Swivel interference	Wheel Ø 125 mm	235 mm	235 mm	235 mm	322 mm	322 mm	●
	Wheel Ø 160 mm	270 mm	270 mm	270 mm	322 mm	322 mm	●
	Wheel Ø 200 mm	310 mm	310 mm	310 mm	322 mm	322 mm	●
	Wheel Ø 250 mm	360 mm	360 mm	360 mm	360 mm	360 mm	●

Swivel bearing



Double ball bearings, reinforced and heat-treated ball covers for high stability. Dust ring with integrated grease dispenser for easy maintenance.

Items with this sign "●" are available. Items with this sign "-" are not available in our standard range. Please contact us.

WHEELS

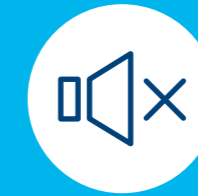


FEATURES



Low wear and tear wheels

Durable wheels with extremely low wear and tear.



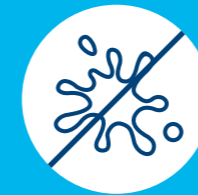
Quiet rolling

Soft wheel versions for a quiet working environment.



Reliable traction

Traction-optimised treads for secure grip on wet and slippery floors.



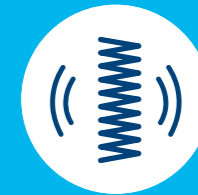
Non-staining operation

Does not stain when in contact with floors over long periods of time.



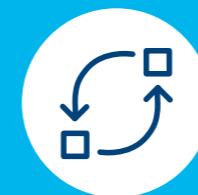
Low-maintenance wheels

Thread guards allow for continuous use with minimal cleaning effort required.



Low-vibration transport

Extra soft wheels with good shock-absorbing properties.



Resource-conserving part replacement

Threaded axles allow effortless wheel change.



Ergonomically friendly use

Wheels with optimised roll resistance to lighten the load for the user.



Non-marking movement

Wheels with reduced abrasion and minimal cleaning effort.

WHEELS

The characteristics of the wheel depend on the material and the bearing. Due to a very reduced abrasion our wheels are extremely wear-resistant and therefore durable. In addition, they are characterized by a very low need of cleaning and do not cause a stain when they are in contact with floors for a long period of time.



Elastech plus
Vulcanised elastic rubber for high performance. In non-marking grey colour or black available.



Duratech
Stable and robust, made of polyamide and thermosetting plastic.



Duratech precision
Same characteristics as Duratech but with precision ball bearing for maximum manoeuvrability.

EXTRA STABLE



Duratech load
Made of extra strong polyamide and thermosetting plastic which is extra stable and indestructible.



Novatech
Highly resilient classics with cast polyurethane coating. Also available with convex tread.



Novatech soft
Same characteristics as Novatech but with a soft tread with damping properties to reduce noise.

PREMIUM QUALITY



Ultratech
Outstanding performance through premium polyurethane. Also available with convex tread.



Highly customisable wheels
Our casted polyurethane wheels are highly flexible to adapt them to your needs. The shore hardness of the tread and the shape can be customised. Convex treads for more manoeuvrability or flat for better traction.

Technical data and availability

EXTRA STABLE

PREMIUM QUALITY

Description	Product name	Elastech plus	Duratech	Duratech precision	Duratech load
	Article description	IEP, IFP	UOO	UOP	TOO, TOP
	Tread material	Vulcanised elastic rubber in grey (non-marking) or black	Polyamide	Polyamide	Polyamide, heavy duty
	Tread hardness	Shore A 67	Shore D 75	Shore D 75	Shore D 75
	Wheel body material	Aluminium	Polyamide	Polyamide	Polyamide
	Temperature range	-20 °C / +85 °C	-40 °C / +80 °C	-40 °C / +80 °C	-40 °C / +80 °C
	Width of tread	50 mm	40 - 50 mm*	50 mm	50 mm
	Antistatic	Optional	-	-	-
	Electric conductive (10 ⁴ OHM)	Optional	-	-	-
	Bearing type	Plain bearing	-	●	-
Roller bearing		-	-	-	-
Cone ball bearing		-	-	-	-
Precision ball bearing		●	-	●	●
Load capacity	Wheel Ø 125 mm	300 kg	-	-	700 kg
	Wheel Ø 160 mm	350 kg	500 kg	-	800 kg
	Wheel Ø 200 mm Width 46 mm	-	600 kg	-	-
	Wheel Ø 200 mm Width 50 mm	450 kg	800 kg	800 kg	800 kg
	Wheel Ø 250 mm	500 kg	800 kg	800 kg	-

Items with this sign "●" are available. Items with this sign "-" are not available in our standard range. Please contact us.
 The mentioned load capacity is only valid for the Zeta product family. The load capacity of a single wheel without housing could be different.
 * Wheel diameter 160 mm has a width of tread in 40 mm. Wheel diameter 200 mm has a width of tread in 46 mm or 50 mm.
 Wheel diameter 250 mm has a width of tread in 50 mm.
 ** In wheel diameter 125 - 200 mm is the width of tread 50 mm and in wheel diameter 250 mm is the width of tread 55 mm.

Novatech	Novatech soft	Ultratech
ITP	ITP	ICP
Polyurethane, casted	Polyurethane, casted	Premium polyurethane, casted
Shore A 92	Shore A 80	Shore A 75 & 92
Aluminium	Aluminium	Aluminium
-20 °C / +60 °C	-20 °C / +60 °C	-20 °C / +60 °C
50 - 55 mm**	50 mm	50 mm
-	-	-
-	-	-
-	-	-
●	●	●
500 kg	400 kg	500 kg
800 kg	550 kg	800 kg
-	-	-
800 kg	700 kg	800 kg
800 kg	800 kg	800 kg

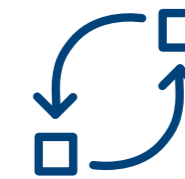
Bearing types



Plain bearing for short distances.



Precision ball bearing for highest performance.



Resource-conserving part replacement

Threaded axles allow effortless wheel change.



Load capacity

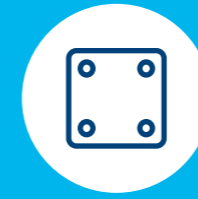
The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements according to EN 12532 at a speed of 4 km/h and EN 12533 at a speed of 6 km/h. When using four castors, you can calculate the necessary load capacity as follows: The sum of the weight of your application plus the additional load divided by three castors.

$$\frac{\text{Weight of application} + \text{load}}{3} = \text{Load capacity of one castor}$$

FITTINGS



FEATURES



Solid mounting plate

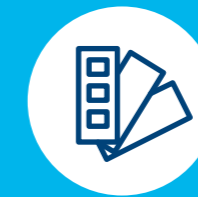
Solid mounting plate with universal dimensions and holes for easy installation.

ADDITIONAL FEATURES



Permanent washability

All metal components made of stainless steel.



Colour matching

Colours can be adapted to match the product design.



Non-hazardous materials

Complies with the RoHS directive and REACH regulation of the European Union. Does not contain polycyclic aromatic hydrocarbons or chromium (VI).



Certified quality



Tested in our own laboratory in compliance with European standards.

PLATE FITTINGS

Secure connection with four screws.



Technical data and availability

Description	 		
	Fitting type	Swivel plate	Fixed plate
	Article description	P63	P63
	Size of plate	137 x 105 mm	137 x 117 mm
	Plate hole centres	105 x 80 / 75 mm	105 x 80 / 75 mm
Plate hole ϕ	11 mm	11 mm	
Overall height	Wheel ϕ 125 mm	164 mm	164 mm
	Wheel ϕ 160 mm	200 mm	200 mm
	Wheel ϕ 200 mm	240 mm	240 mm
	Wheel ϕ 250 mm	290 mm	290 mm

Items with this sign "i" are not available in our standard range. Please contact us.

ACCESSORIES

We offer suitable accessories such as the partially elastic foot protection which prevents any contact between foot and wheel. This increases the safety of the employees and reduces accidents. Can be retrofitted if required.

Flexible rubber

The flexible rubber aprons are shaped so they press in towards the wheel as soon as the wheel comes into contact with the foot. This prevents the castor from moving over and crushing the foot.



Versatile use

All floor conditions can be overcome without difficulty including uneven surfaces and obstacles.

Strong steel

Rigid guard rails made of steel attached to the side of the wheel. These ensure that the foot is guided safely around the side of the wheel.

Technical data and availability



Description	Article description	Foot protection
	Temperature	-20 °C / +60 °C
	Width	151 mm
	Ground clearance	19 mm
Weight	Hardness of rubber aprons	Shore A 75
	Wheel ϕ 125 mm	0,54 kg
	Wheel ϕ 160 mm	0,67 kg
	Wheel ϕ 200 mm	0,75 kg
Length	Wheel ϕ 250 mm	1,256 kg
	Wheel ϕ 125 mm	185 mm
	Wheel ϕ 160 mm	220 mm
	Wheel ϕ 200 mm	260 mm
Wheel ϕ 250 mm	310 mm	



Mounted foot protection

DIVERSITY WITH A SYSTEM OUR CASTORS

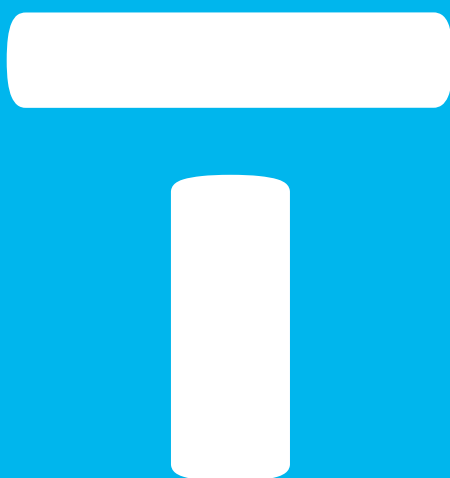
All of our products have their own specific qualities and strengths. Whether it's high design standards, specialist applications or exceptional load capacities – our range can meet your needs and can be adapted to fit different models.

From the correct dimensions and technical specifications to the required configuration, our product families are able to offer the ideal solution – whatever you need. Contact us for more information or visit our website: www.tente.com



HEYN

ENVIRONMENTAL



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PRODUCTIVITY



SAFETY



DESIGN



DURABILITY



ENVIRONMENT