

PRODUCT INFORMATION

ALPHA

 70 - 500 kg

 108 - 240 mm

 80 - 200 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 working environment. Our solutions can increase productivity, enhance safety and open up new horizons in terms of design, durability and environmental friendliness. Leading manufacturers and companies of different industries rely on these features and our high production quality.

On the following pages you will find technical information about our Alpha product family. We will also explain the added value which this mobility solution offers for your company. Features include:

Ergonomically friendly

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

Uninterrupted use

Swivel bearing with dust ring for continuous, uninterrupted movement.

Tested quality

Tested in our own laboratory for compliance with European standards.

HOUSINGS

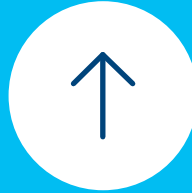


FEATURES



Practical system solution

With all technical components for central locking.



Optimised steering mechanism

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



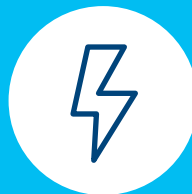
Secure stand

Total lock option for secure standing.



User-friendly central lock

You can simultaneously lock more than one castor using a central activation lever.



Certified conductivity

Conductive versions to protect users and electrical devices from electrostatic discharge.



Permanent washability

Items made with stainless steel components available. These are ideal for use in damp and wet environment.



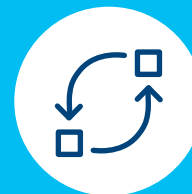
Easy steering

Double ball bearing swivel head.



Colour matching

Colours can be adapted to match the product design.



Resource-conserving part replacement

Threaded axles allow effortless wheel change.

HOUSINGS

We have two different types of housings: pressed steel and stainless steel. Materials are tested in our own laboratory for compliance with European standards. Non hazardous materials are used in order to comply with the RoHS directive and the European Union's REACH regulation. These do not contain polycyclic aromatic hydrocarbons or chromium (VI).

Swivel castor

Wheel and housing are free to move in any direction. The housing can be retrofitted with a directional lock option.



Central wheel brake

Simultaneous locking of more than one castor using a central activation lever. The wheel brake prevents unintended movement.



Directional lock

Directional lock for improved stability when steering around bends, as well as moving in a straight line for long distances.



Central directional lock

Simultaneous activating of the directional lock of more than one castor, through the cam via a lever.



Total lock

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



Central total lock

Simultaneous activating of the total lock of more than one castor, through the cam via a lever.





• **Total lock in direction of travel**

For easy access, the total lock pedal always faces in the direction of travel when pulling the application.



• **Fixed castor**

The wheel is free and the housing fixed, it cannot swivel but only move forward and backward. This allows a stable movement.



• **Fixed castor with central wheel brake**

Fixed housing with a wheel brake which can be activated via a handle. This can simultaneously brake more than one castor.



• **Fixed castor with automatic wheel lock**

The wheel is automatically locked by default. It starts rolling only when a lever or handle is activated by the user. Unintentional movement is effectively prevented.



• **Automatic directional stability 180° or 360°**

The housing is equipped with a spring for automatic alignment. Whenever the castor is picked up, it automatically aligns in the direction of travel which avoids damages and reduces maintenance costs.



• **Automatic directional stability 180° or 360° and total lock**

In addition to the automatic alignment the castor is equipped with the total lock function for a secure stand.



• **Combination total and directional lock**

The directional lock can be assembled on all swivel castors or castors with total lock in direction of travel with "P63" plate. Can be retrofitted. Available on request.



• **Automatic alignment**

The housing is equipped with a spring for automatic alignment. It is also perfect for the use of automatically guided vehicles. Whenever the castor is picked up, it automatically aligns in the direction of travel which avoids damages and reduces maintenance costs.

PRESSED STEEL HOUSINGS

Pressed steel housings are zinc plated and blue passivated. The double ball bearing in the swivel head allows for a smooth swivel function.

Alpha castors made with this pressed steel housing provide flexibility and high load capacities. This improves safety for goods and people, and increases your productivity rates at the same time.

Technical data and availability

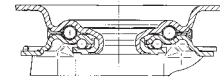


Description	Housing type	Swivel castor	Swivel castor with central wheel brake	Swivel castor with directional lock	Swivel castor with central directional lock	Swivel castor with total lock	Swivel castor with central total lock
	Article description	3470	3479	3471	3471	3477	3476
	Material	Pressed steel	Pressed steel	Pressed steel	Pressed steel	Pressed steel	Pressed steel
	Swivel bearing	Double ball bearing	Double ball bearing	Double ball bearing	Double ball bearing	Double ball bearing	Double ball bearing
	Automatic directional stability	-	-	-	-	-	-
	Washable*	-	-	-	-	-	-
Swivel interference	Wheel ø 080 mm	160 mm	160 mm	246 mm	-	246 mm	-
	Wheel ø 100 mm	180 mm	180 mm	246 mm	180 mm	246 mm	-
	Wheel ø 108 mm	186 mm	-	-	-	-	-
	Wheel ø 125 mm	205 mm	205 mm	246 mm	205 mm	246 mm	235 mm
	Wheel ø 160 mm	270 mm	-	-	-	334 mm	270 mm
	Wheel ø 200 mm	310 mm	-	-	-	334 mm	310 mm

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

*Washable versions with metal components made of stainless steel.

Swivel bearing



Double ball bearing for good manoeuvrability.



Swivel castor with total lock in direction of travel	Fixed castor	Fixed castor with central wheel brake	Fixed castor with automatic wheel brake	Swivel castor with automatic directional stability 180° or 360°		Swivel castor with directional stability 180° or 360° and total lock	
3472	3478	3499	349D	347S		347B	
Pressed steel	Pressed steel	Pressed steel	Pressed steel	Pressed steel		Pressed steel	
Double ball bearing	-	-	-	Double ball bearing		Double ball bearing	
-	-	-	-	180°	360°	180°	360°
-	-	-	-	-	-	-	-
-	●	-	-	160 mm	160 mm	246 mm	246 mm
-	●	-	-	180 mm	180 mm	246 mm	246 mm
-	●	-	-	-	-	-	-
-	●	-	-	205 mm	205 mm	246 mm	246 mm
270 mm	●	●	●	-	270 mm	-	334 mm
310 mm	●	●	●	-	310 mm	-	334 mm

STAINLESS STEEL HOUSINGS

Castors made of stainless steel have a very high resistance to external forces such as water, humidity, various acids, fats and strong cleaning agents. Thanks to their corrosion resistance, the castors have a long service life and can be used within a wide temperature range. In fact, they can be used right down to almost 'absolute zero' celsius. In addition, the castors are washable which is important in industries where hygiene is top priority.

Technical data and availability

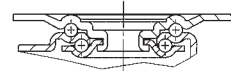


Description	Housing type	Swivel castor	Swivel castor with directional lock - additional	Swivel castor with total lock	Swivel castor with central total lock
	Article description	8470	8471	8477	8476
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Swivel bearing	Double ball bearing	Double ball bearing	Double ball bearing	Double ball bearing
	Automatic directional stability	-	-	-	-
	Washable*	●	●	●	●
Swivel interference	Wheel Ø 080 mm	160 mm	-	246 mm	-
	Wheel Ø 100 mm	180 mm	-	246 mm	-
	Wheel Ø 108 mm	186 mm	-	-	-
	Wheel Ø 125 mm	205 mm	246 mm	246 mm	-
	Wheel Ø 160 mm	270 mm	270 mm	334 mm	270 mm
	Wheel Ø 200 mm	310 mm	310 mm	334 mm	310 mm

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*Washable versions with metal components made of stainless steel.

Swivel bearing

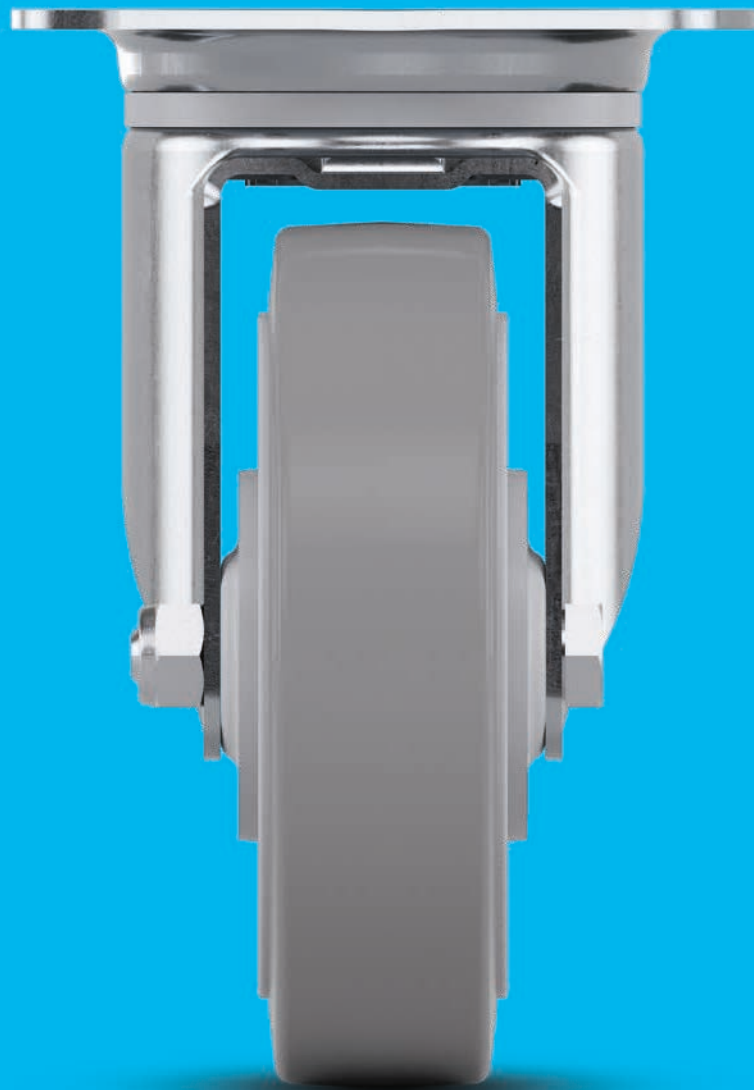


Double ball bearing for good manoeuvrability.

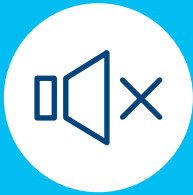


Fixed castor	Fixed castor with central wheel brake	Fixed castor with automatic locking	Swivel castor with automatic directional stability 180° or 360°		Swivel castor with directional stability 180° or 360° and total lock	
8478	8499	849D	847S		847B	
Stainless steel	Stainless steel	Stainless steel	Stainless steel		Stainless steel	
-	-	-	Double ball bearing		Double ball bearing	
-	-	-	180°	360°	180°	360°
●	●	●	●	●	●	●
●	-	-	160 mm	160 mm	246 mm	246 mm
●	-	-	180 mm	180 mm	246 mm	246 mm
●	-	-	-	-	-	-
●	-	-	205 mm	205 mm	246 mm	246 mm
●	●	●	-	270 mm	-	334 mm
●	●	●	-	310 mm	-	334 mm

WHEELS



FEATURES



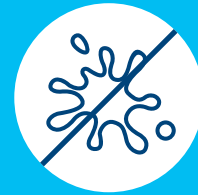
Quiet rolling

Noise reduced wheel options to suit a quiet work environment.



Non-marking movement

Wheels with reduced abrasion and little cleaning requirement.



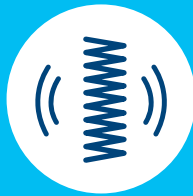
Non-staining operation

Non-staining on contact with floors when standing for long periods.



Low-maintenance wheels

Thread-guards for unobstructed operation with minimal cleaning effort.



Low vibration transport

Extra soft wheels with good shock-absorbing properties.



Protective seal

Wheels with sealed bearings to protect against spray water and dirt. Ideal for stainless steel housings.



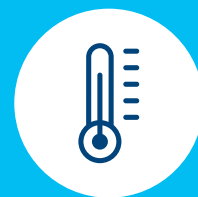
Low wear and tear wheels

Durable wheels with extremely low wear and tear.



Ergonomically friendly use

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



Constant heat resistance

Wheels made of heat resistant material for use in extreme environments.

WHEELS

The characteristics of a wheel depend on the type of bearing and the materials used. Wheels are also available in different levels of hardness. We can guarantee maximum manoeuvrability and quiet operation, with a variety of treads.

The materials are tested in our own laboratory to ensure compliance with European standards. Non-hazardous materials are used in order to adhere RoHS and REACH regulations.



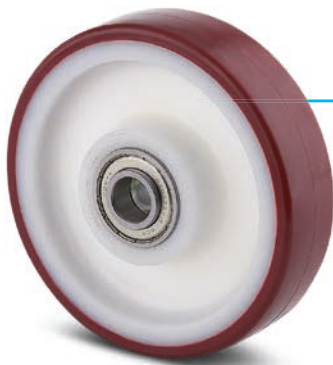
Duratech

Stable and indestructible, made of polyamide and thermosetting plastic with an abrasion-resistant tread. Noise reducing and heat-resisting versions are available.



Basetech

Hard-wearing and washable lightweight polypropylene wheels. The low maintenance wheels are chemical resistant.



Maxtech

Perfect for functional design made of injection moulded polyurethane. Conductive and washable versions are available.



Novatech

Highly resilient classics with cast polyurethane coating. The shore hardness of the tread and the shape can be customised. Use convex treads for added manoeuvrability or flat tread for better traction. Also available with soft tread.



Puretech

Robust standard rubber tread for versatile use. Conductive and washable versions available. Protection through low-vibration transport.



Supratech

Smooth running, all-rounder with thermoplastic rubber tread. Excellent manoeuvrability due to the use of high-performance material. An electric conductive and washable version is also available.



Elastech

Quiet-running elastic and silicon rubber for smoothest handling properties. A heat-resistant version is available.

Technical data and availability



i		Duratech	Duratech silent	Duratech heat	Basetech
Description	Product name	UOO, UOR, UOP, UOC, UOD, XOR, XOP	HUR, UOT	BOG	POO, POR, POJ, PQR
	Article description	Polyamide	Polyamide	Heat resisting synthetic material	Polypropylene
	Tread material	Shore D 75	Shore D 75	Shore D 85	Shore D 65
	Tread hardness	Polyamide	Polyamide	Heat resisting synthetic material	Polypropylene
	Wheel body material	- 40 / + 80 °C	HUR - 20 / + 60 °C UOT - 40 / + 80 °C	- 40 / + 280 °C	- 20 / + 60 °C
	Temperature range	34 - 50 mm	36 - 40 mm	35 mm	34 - 40 mm
	Tread width	-	-	-	-
	Antistatic	● XOR, XOP wheel	-	-	-
	Electric conductive (10 ⁴ OHM)	● UOC, UOD wheel	-	-	-
	Washable*	● Plain bearing	-	● self-lubricating	●
Bearing type	Roller bearing	●	● HUR wheel	-	●
	Precision ball bearing	●	● UOT wheel	-	●
Load capacity	Wheel Ø 080 mm	180 - 200 kg	-	100 kg	125 kg
	Wheel Ø 100 mm	200 - 250 kg	160 - 250 kg	125 kg	160 kg
	Wheel Ø 125 mm	250 - 350 kg**	200 - 250 kg	-	200 kg
	Wheel Ø 160 mm	350 - 500 kg***	-	-	-
	Wheel Ø 200 mm	350 - 500 kg***	-	-	-

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

The mentioned load capacity applies only to the Alpha product family. The load capacity of the wheel alone, without housing, could be different.

* Washable wheels with bearings made of stainless steel.

** 300 - 350 kg load capacity with P63 fitting.

*** 500 kg load capacity with housing 8470.



Maxtech
UAC, UAD, UAR, UAP, XSP, XSX, XSC
Polyurethane
Shore D 40
Polyurethane
- 40 / + 80 °C
32 - 50 mm
-
● XSP, XSX, XSC wheel
● XSC, UAD wheel
-
●
●
100 - 150 kg
150 kg
200 - 300 kg**
350 - 500 kg***
350 - 500 kg***

Bearing types



Plain bearing



Roller bearing



Precision ball bearing



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. 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.

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

Technical data and availability



		Novatech	Novatech soft	Puretech	Supratech
		Description		ITP	ITP soft
Tread material		Polyurethane, casted	Polyurethane, casted	Rubber	Thermoplastic rubber
Tread hardness		A 92	A 80	A 85	A 87
Wheel body material		Aluminum	Aluminum	Polypropylene	Polypropylene
Temperature range		- 20 / + 60 °C	- 20 / + 60 °C	- 20 / + 60 °C	- 20 / + 60 °C
Tread width		40 - 50 mm	50 mm	35 - 60 mm	32 - 40 mm
Antistatic		●	●	-	-
Electric conductive (10 ⁴ OHM)		-	-	-	● XSP wheel
Washable*		-	-	-	● XSC wheel
Bearing type		-	-	●	●
Roller bearing		-	-	●	●
Precision ball bearing		●	●	-	●
Load capacity		-	-	70 kg	-
Wheel Ø 100 mm		250 kg	-	75 kg	80 - 100 kg
Wheel Ø 125 mm		250 - 350 kg**	350 kg**	100 kg	100 kg
Wheel Ø 160 mm		350 kg	350 kg	135 kg	160 kg
Wheel Ø 200 mm		350 kg	350 kg	205 kg	160 kg

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The mentioned load capacity is only valid for the Alpha product family. The load capacity of the wheel alone, without housing, could be different.

* Washable wheels with bearings made of stainless steel.

** 350 kg load capacity with P63 fitting.

HEAT
RESISTANT

Supratech plus	Elastech	Elastech heat	Elastech plus
PJP	UER, UEP, UFR, UFP, UFD, UFC, UFX	IDC, IDG	IEP, IFP, ILP, IYP
Thermoplastic rubber	Elastic rubber	Heat resisting silicone rubber	Elastic rubber
A 65	A 64	A 75	A 64
Polypropylene	Polyamide	Aluminum	Aluminum
- 20 / + 60 °C	- 20 / + 80 °C	- 30 / + 250 °C	- 20 / + 80 °C
35 - 45 mm	34 - 46 mm	35 mm	40 - 55 mm
-	-	-	● ILP wheel
-	-	-	● IYP wheel
-	● UFD, UFC wheel	-	-
-	-	● self-lubricating	-
-	●	-	-
●	●	●	●
-	-	-	-
110 kg	160 kg	80 kg	-
180 kg	250 kg	-	300 kg
200 kg	300 kg	-	350 kg
250 kg	400 kg	-	350 kg

Bearing types



Plain bearing



Roller bearing



Precision ball bearing



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. When using four castors, calculate the necessary load capacity as follows: The sum of the weight of your application plus the additional load divided by three castors.

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

FITTINGS

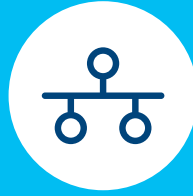


FEATURES



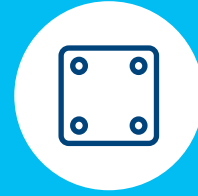
User-friendly central lock

Simultaneous locking of more than one castor at a time using an activation lever.



Practical system solution

Includes all components for central locking system.



Variable fitting options

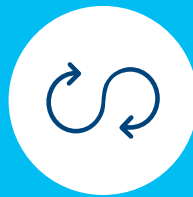
Different fitting options for a large range of applications.

ADDITIONAL FEATURES



Tested quality

Tested in our own test laboratory for compliance with European standards.



Uninterrupted use

Swivel bearing with dust ring for continuous, uninterrupted movement.



Non-hazardous materials

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

PLATE FITTINGS

Secure connection with four screws. The castor is mounted using nuts and bolts to a flat surface on the equipment.



Technical data and availability

					
Description	Fitting type	Swivel plate	Fixed plate	Swivel plate	Fixed plate
	Article description	P62	P62	P63	P63
	Size of plate Swivel castors	105 x 80 mm	103 x 85 mm	137 x 105 mm	137 x 115 mm
	Plate hole centres	80/77 x 60 mm	80/77 x 60 mm	105 x 80/75 mm	105 x 80/75 mm
	Plate hole \varnothing	9 mm	9 mm	11 mm	11 mm
Overall height	Wheel \varnothing 080 mm	108 mm	108 mm	-	-
	Wheel \varnothing 100 mm	128 mm	128 mm	128 mm	125 mm
	Wheel \varnothing 108 mm	132 mm	132 mm	-	-
	Wheel \varnothing 125 mm	155 mm	155 mm	161 mm	161 mm
	Wheel \varnothing 160 mm	-	-	200 mm	200 mm
	Wheel \varnothing 200 mm	-	-	240 mm	240 mm

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



Central locking plate	Swivel castor with central wheel lock	Swivel castor with central total lock
P67	P69	P70
137 x 105 mm	137 x 105 mm	105 x 80 mm
105 x 80/75 mm	105 x 80/75 mm	80/77 x 60 mm
11 mm	11 mm	9 mm
-	-	-
-	-	128 mm
-	-	155 mm
-	-	-
200 mm	200 mm	-
240 mm	240 mm	-

BOLT HOLE FITTINGS

Fittings with a single bolt hole allow the use of various length screws when mounting the castor to a piece of equipment. This is ideal for corners and small surface areas when a plate cannot be used. Adapters can be used for mounting in round or square tubing.



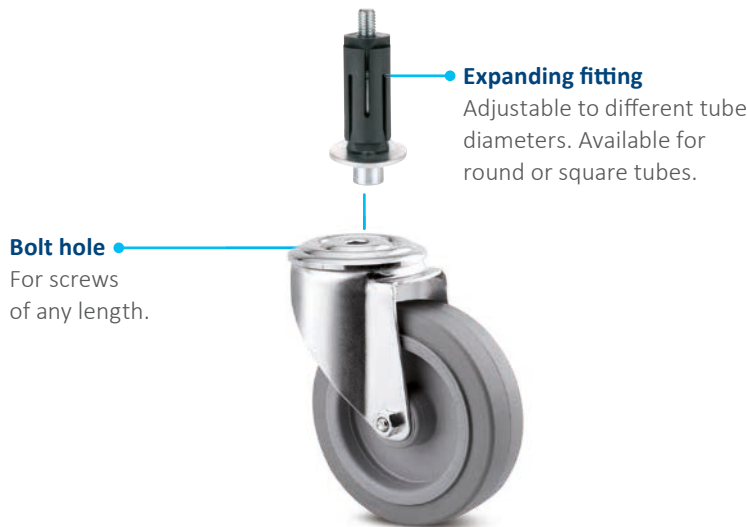
Technical data and availability



Description	Fitting type	Single bolt hole	Single bolt hole
	Article description	P30	P30
	Bolt hole \varnothing	11 mm	13 mm
Overall height	Wheel \varnothing 80 mm	108 mm	108 mm
	Wheel \varnothing 100 mm	128 mm	128 mm
	Wheel \varnothing 125 mm	155 mm	155 mm
	Wheel \varnothing 160 mm	195 mm	195 mm
	Wheel \varnothing 200 mm	235 mm	235 mm

EXPANDING FITTINGS FOR TUBES

The adjustable expanders allow for a flexible installation in different tube sizes. These are available for all castors with bolt holes in diameter 11 mm.



Technical data and availability



Description		Fitting type		
		Bolt hole	Expander, round	Expander, square
Article description		P30	R07	R47
Bolt hole Ø		11 mm	-	-
Expander measurements		-	Ø 19 - 21,5 mm Ø 21,5 - 24 mm Ø 24 - 27 mm Ø 27 - 30 mm Ø 31 - 35 mm	Ø 21,5 - 24 mm Ø 24 - 27 mm Ø 27 - 30 mm Ø 32 - 35 mm Ø 36 - 40 mm
Overall height	Wheel Ø 80 mm	108 mm	●	●
	Wheel Ø 100 mm	128 mm	●	●
	Wheel Ø 125 mm	155 mm	●	●
	Wheel Ø 160 mm	195 mm	-	-
	Wheel Ø 200 mm	235 mm	-	-

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SOLID STEM FITTINGS

These types of fitting are very quick and easy to attach. They can be fixed in a tube with a screw or threaded pin, for example.



Technical data and availability



 Description	Fitting type	Solid stem
	Article description	R05
	Thread for set screw	M8
	Thread position from bottom	19 mm
	Solid stem \varnothing	28 mm
	Solid stem length	45 mm
 Overall height	Wheel \varnothing 80 mm	-
	Wheel \varnothing 100 mm	-
	Wheel \varnothing 125 mm	158 mm
	Wheel \varnothing 160 mm	195 mm
	Wheel \varnothing 200 mm	235 mm

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

ACCESSORIES

We offer all technical components for central locking.

Profile bar for central locking



Description	i Article description	Profile bar
	Compatible with	Single wheel castors with central wheel brake
	Material	Steel
	Lengths	Up to 3 m
	Profile bar	11 mm hex
	Adjustment range of the brake pad	10 mm



Example of mounted central locking components

Foot pedal for central locking



Description	i Article description	Foot pedal
	Compatible with	Profile bar
	Material	Steel
	Measurements	70 x 94 mm

DIVERSITY WITH A SYSTEM

OUR CASTORS

Each of our product families comes with its own set of strengths. Whether it's high design standards, a specialist application or an exceptional load capacity that you need, our systems can fit your requirements.

We are ready to help to meet the correct dimensions and technical specifications of your project. Contact us for more information or visit us online: www.tente.com

E-Drive



⌀ 125 mm

Alpha



⊃ 70 - 500 kg
⌀ 80 - 200 mm

Delta



⊃ 300 - 600 kg
⌀ 125 - 200 mm

Delta twin



⊃ 600 - 750 kg
⌀ 125 - 200 mm

Zeta



⊃ 300 - 800 kg
⌀ 125 - 250 mm

Kappa



⊃ 300 - 2.000 kg
⌀ 80 - 300 mm

Kappa flex



⊃ 360 - 750 kg
⌀ 160 - 200 mm

Omikron



⊃ 900 - 12.000 kg
⌀ 100 - 500 mm

Radiata



⊃ 1.200 - 1.500 kg
⌀ 80 mm

Scout



150 - 350 kg
160 - 200 mm

Integral



80 - 150 kg
100 - 200 mm

Integral twin



125 - 250 kg
100 - 150 mm

Linea



40 - 150 kg
50 - 150 mm

Aviana



100 kg
75 mm

Agila



40 - 100 kg
50 - 150 mm

Stora



55 - 160 kg
75 - 160 mm

Mono



30 - 70 kg
50 - 100 mm

Galea



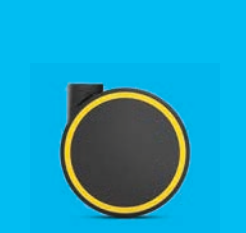
60 - 100 kg
100 - 125 mm

Levina



60 - 100 kg
75 - 150 mm

Anika



40 - 50 kg
55 - 75 mm

Lumina



20 - 100 kg
35 - 100 mm

Stylea



40 - 100 kg
35 - 100 mm

Smiles



40 kg
50 mm

Compacta



10 - 40 kg
14 - 50 mm

EXPERTISE THAT INSPIRES

CONTACT US

We are a global company that offers you support across five continents. That means you can access on the spot support tapping into our in-depth knowledge base. Additionally, our experienced experts can advise you on the best mobility solution for your needs. Find your local TENTE contact on our website: www.tente.com/locations

INCREASE YOUR EFFICIENCY

With our smart mobility solutions we help you save time, effort, energy and operational costs. With our products you can improve your work methods and conditions, streamline your processes and ensure increased productivity, profitability and safety. Request our solution catalogue or read our website to see how our customers benefit from our customised solutions: www.tente.com/solutions

SAVE DEVELOPMENT TIME

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