### **PRODUCT INFORMATION ALPHA**







BETTER MOBILITY. BETTER LIFE.

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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.



#### **User-friendly** central lock

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



#### **Optimised** steering mechanism

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



#### **Certified** conductivity

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



<del>|</del>

Secure stand

simultaneously locking

the wheel and swivel

Total lock for

housing.

#### **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.

Alternatively, a plate fitting with integrated central lock is available.



### 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**

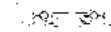
Pressed steel housings are zinc plated and blue passivated.
The double ball bearing in the swivel head allows for a smooth swivel function. Alpha castors made with this pressed steel housing provide flexibility and high load capacities. This improves safety for goods and people, and increases your productivity rates at the same time.



#### Retrofittable directional lock

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

#### Swivel bearing



Double ball bearing for good manoeuvrability.

#### **Technical data and availability**











				-	-	-	
i	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
ption	Automatic directional stability	-	-	-	-	-	-
Description	Washable	-	-	-	-	-	-
	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	-
nce	Wheel Ø 108 mm	186 mm	-	-	-	-	-
wivel interference	Wheel Ø 125 mm	205 mm	205 mm	246 mm	205 mm	246 mm	235 mm
el int	Wheel Ø 160 mm	270 mm	-	-	-	334 mm	270 mm
, Š	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.

T)	T)	U	U	U	Ū		Ū	
Swivel castor with central total lock	Swivel castor with total lock in direction of travel	Fixed castor	Fixed castor with central wheel brake	Fixed castor with automatic wheel brake		istor with directional 80° or 360°	Swivel ca automatic stability 18 and to	directional 80° or 360°
3476	3472	3478	3499	349D	34	.7S	34	7B
Pressed steel	Pressed steel	Pressed steel	Pressed steel	Pressed steel	Presse	d steel	Presse	d steel
Double ball bearing	Double ball bearing	-	-	-	Double ba	all bearing	Double ba	III 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	•	•	•	270 mm	-	334 mm	-
310 mm	310 mm	•	•	•	310 mm	-	334 mm	-

### **STAINLESS STEEL HOUSINGS**

Castors made of stainless steel have a very high resistance to external elements 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 addition, the castors are washable which is important in industries where hygiene is top priority.



#### Retrofittable directional lock

The directional lock can be assembled on all swivel castors.. Available on request.

#### Swivel bearing



Double ball bearing for good manoeuvrability.

#### **Technical data and availability**









(i	Housing type	Swivel castor	Swivel castor with directional lock, retrofitted	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
Description	Automatic directional stability	-	-	-	-
Des	Washable*	•	•	•	•
<u>Ø</u>	Wheel Ø 080 mm	160 mm	-	246 mm	-
	Wheel Ø 100 mm	180 mm	-	246 mm	-
nce	Wheel Ø 108 mm	186 mm	-	-	-
erfere	Wheel Ø 125 mm	205 mm	246 mm	246 mm	-
Swivel interference	Wheel Ø 160 mm	270 mm	270 mm	334 mm	270 mm
Swir	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.











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Fixed castor	Fixed castor with central wheel brake	Fixed castor with automatic wheel brake	Swivel ca automatic stability 18	directional	Swivel ca automatic stability 18 and to	directional 80° or 360°
8478	8499	849D	84	7S	84	7B
Stainless steel	Stainless steel	Stainless steel	Stainles	ss steel	Stainle	ss steel
-	-	-	Double ba	all bearing	Double ba	all 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.



### 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 they comply with European standards. Non-hazardous materials are used in order to comply with RoHS and REACH regulations.





#### 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.



#### Puretech

Robust standard rubber tread for versatile use. Protection through low-vibration transport.



#### Supratech

Smooth running, all-rounder with thermoplastic rubber tread. Excellent manoeuvrability due to the use of high-performance material.



#### Elastech

Quiet-running elastic and silicon rubber for smoothest handling properties.

#### **Technical data and availability**









i	Product name	Duratech	Duratech silent	Duratech heat	Basetech
	Article description	UOO, UOR, UOP, UOC, UOD, XOR, XOP	HUR, UOT	BOG	POO, POR, POJ, PQR
	Tread material	Polyamide	Polyamide	Heat resisting synthetic material	Polypropylene
	Tread hardness	Shore D 75	Shore D 75	Shore D 85	Shore D 65
	Wheel body material	Polyamide	Polyamide	Heat resisting synthetic material	Polypropylene
	Temperature range	- 40 °C / + 80 °C	HUR - 20 °C / + 60 °C UOT - 40 °C / + 80 °C	- 40 °C / + 280 °C	- 20 °C / + 60 °C
	Tread width	34 - 50 mm	36 - 40 mm	35 mm	34 - 40 mm
	Antistatic	-	-	-	-
ption	Electric conductive (10 <sup>4</sup> OHM)	XOR, XOP	-	-	-
Description	Washable*	UOC, UOD	-	-	-
	Plain bearing	•	-	• self-lubricating	•
g type	Roller bearing	•	● HUR	-	•
Bearing type	Precision ball bearing	•	UOT	-	•
8	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
city	Wheel Ø 125 mm	250 - 350 kg**	200 - 250 kg	-	200 kg
Load capacity	Wheel Ø 160 mm	350 - 500 kg***	-	-	-
Load	Wheel Ø 200 mm	350 - 500 kg***	-	-	-



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



Maxtech
UAC, UAD, UAR, UAP, XSP, XSX, XSC
Polyurethane
Shore D 40
Polyurethane
- 40 °C / + 80 °C
32 - 50 mm
-
XSP, XSX, XSC
XSC, UAD
-
•
•
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.

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

<sup>\*</sup> Washable wheels with bearings made of stainless steel.

<sup>\*\* 300 - 350</sup> kg load capacity with P63 fitting.

<sup>\*\*\* 500</sup> kg load capacity with housing 8470.

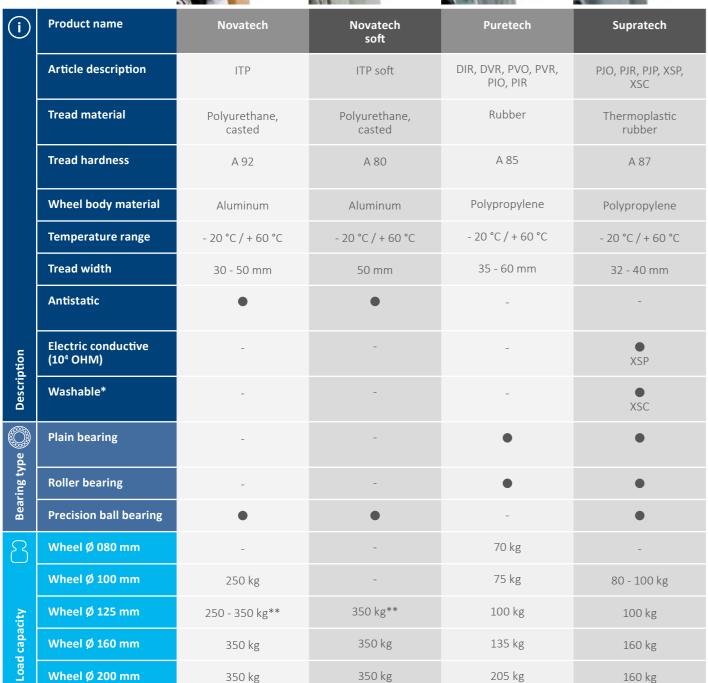
#### **Technical data and availability**











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









			\ II - X
Supratech plus	Elastech	Elastech heat	Elastech plus
РЈР	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 °C / + 60 °C	- 20 °C / + 80 °C	- 30 °C / + 250 °C	- 20 °C / + 80 °C
35 - 45 mm	34 - 46 mm	35 mm	40 - 55 mm
-	-	-	• ILP
-	-	-	● IYP
-	UFD, UFC	-	-
-	-	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**





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.

Weight of application + load \_ Load capacity of one castor

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<sup>\*</sup> Washable wheels with bearings made of stainless steel.

<sup>\*\* 350</sup> kg load capacity with P63 fitting.

# FITTINGS



### **FEATURES**



### User-friendly central lock

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



### **Practical system solution**

Practical system solution with all technical components for central locking.



### 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).

lacksquare

### **PLATE FITTINGS**

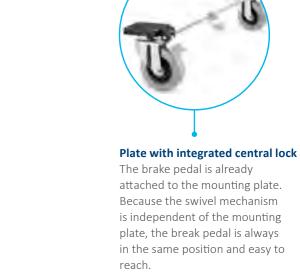
Secure connection with four screws. The castor is mounted using nuts and bolts to a flat surface on the equipment.



#### **Technical data and availability**



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



119		TA
Plate with integrated central total lock	Plate with integrated central wheel lock	Plate with integrated 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**

A bolt hole offers the option to fix the application to the castor with a standard screw M10 or M12. Screws of any length can be used.



#### **Technical data and availability**





i	Fitting type	Single bolt hole	Single bolt hole
Description	Article description	P30	P30
Desci	Bolt hole Ø	11 mm	13 mm
	Wheel Ø 80 mm	108 mm	108 mm
	Wheel Ø 100 mm	128 mm	128 mm
Ħ	Wheel Ø 125 mm	155 mm	155 mm
Overall height	Wheel Ø 160 mm	195 mm	195 mm
Overa	Wheel Ø 200 mm	235 mm	235 mm

### **EXPANDING FITTINGS FOR TUBES**

For an easy mounting into tubes, we offer for bolt hole fittings in diameter 11 mm suitable expanding fittings. The adjustable expanders allow for flexible installation in different tube sizes.



#### Technical data and availability





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(i)	Fitting type	Expander, round	Expander, square
	Article description	R07	R47
Description	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
	Wheel Ø 80 mm	•	•
	Wheel Ø 100 mm	•	•
ŧ	Wheel Ø 125 mm	•	•
Overall height	Wheel Ø 160 mm	-	-
Overa	Wheel Ø 200 mm	-	-

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

### **SOLID STEM FITTINGS**

These types of fittings 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**



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

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

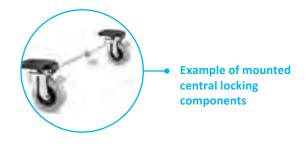
### **ACCESSORIES**

We offer all technical components for central locking.

## Profile bar for central locking



(i)	Article description	Profile bar
	Material	Steel
	Lengths	Up to 3 m
ption	Profile bar	11 mm hex
Description	Adjustment range of the brake pad	10 mm



## Foot pedal for central locking



(i)	Article description	Foot pedal
<b>-</b>	Compatible with	Profile bar
Description	Material	Steel
	Measurements	70 x 94 mm

### **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





2 125 mm





Alpha



Delta

300 - 600 kg
2 125 - 200 mm

Kappa flex



600 - 750 kg
125 - 200 mm



300 - 800 kg
2 125 - 250 mm

Kappa



300 - 2.000 kg Ø 80 - 300 mm



8 360 - 750 kg Ø 160 - 200 mm



1.200 - 1.500 kg @ 80 mm





150 - 200 kg
125 - 150 mm

Agila twin



50 - 100 kg 50 - 75 mm





Stylea

60 - 100 kg 75 - 150 mm

**Omikron** 



8 900 - 11.000 kg 2 100 - 500 mm

Radiata



8 150 - 350 kg Ø 160 - 200 mm

Scout

Aviana care



Stora



60 - 160 kg₹ 75 - 160 mm

Linea



3 40 - 150 kg 50 - 150 mm

**Smiles** 



35 - 100 kg



100 - 150 kg (a) 100 - 200 mm



Mono



30 - 70 kg
50 - 100 mm

Anika



3 40 - 50 kg 55 - 75 mm

Compacta



Integral



Aviana



Ø 75 mm





30 - 100 kg 35 - 75 mm



10 - 55 kg
14 - 50 mm

125 - 250 kg
100 - 150 mm

Agila

**Integral twin** 



3 40 - 100 kg 50 - 150 mm

Galea



60 - 100 kg
100 - 125 mm

Lumina





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DESIGN

DURABILITY

**ENVIRONMENT**