



# PRODUCT INFORMATION

## SMILES

 40 kg    71,5 - 90,5 mm    50 mm



**TENTE**

BETTER MOBILITY. BETTER LIFE.

# HOUSINGS

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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 as well as our high production quality.

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

## **Bright and colourful faces**

Bear, cow, cat and aeroplane. Any combination possible.

## **Non-staining operation**

Non-staining on contact with floors during long standing periods.  
Can also be used for floors made of untreated wood and natural stone.

## **Award-winning design**

Awarded with prestigious prizes by international judges.



reddot design award

# HOUSINGS



# FEATURES



## Prevents unintended movement

Wheel lock with pedal for manual operation.



## Robust housing

Twin wheel castor for high stability and low height.



## Bright and colourful faces

Bear, cow, cat and aeroplane. Any combination possible.



## Colour matching

The colour of solid material can be adapted to the product design. Please contact us for your desired colour. Standard colours:

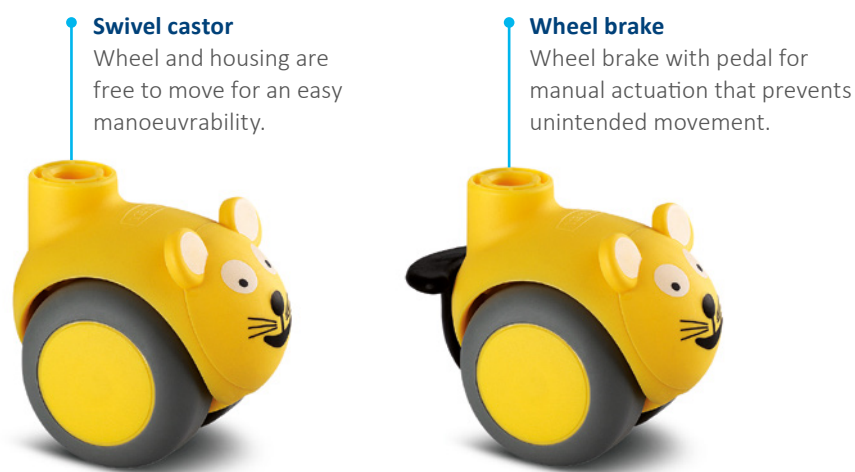


## Award-winning design

Awarded with prestigious prizes by international judges.

# HOUSINGS

The playful housings are made of injected polyamide. The colour of the housing, faces and wheels can be adapted to your needs to get an individual design. 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 the RoHS directive and REACH regulation of the European Union. These do not contain polycyclic aromatic hydrocarbons or chromium (VI).



**Swivel castor**  
Wheel and housing are free to move for an easy manoeuvrability.

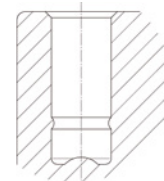
**Wheel brake**  
Wheel brake with pedal for manual actuation that prevents unintended movement.

## Technical data and availability



 <b>Description</b>	<b>Housing type</b>	Swivel castor	Swivel castor with wheel brake
	<b>Product name</b>	5520	5525
	<b>Material</b>	Polyamide	Polyamide
	<b>Overall height</b>	71,5 mm	71,5 mm
	<b>Swivel bearing</b>	Plain bearing	Plain bearing
 <b>Swivel interference</b>	<b>Wheel <math>\varnothing</math> 50 mm</b>	Bear: 120 mm Cat: 120 mm Cow: 140 mm Aeroplane: 133 mm	Bear: 120 mm Cat: 120 mm Cow: 140 mm Aeroplane: 133 mm

### Swivel bearings



Plain bearing for plug-in fittings.

# BRIGHT AND COLOURFUL FACES

Our product family Smiles offers a wide range of different faces. Any combination possible. We can accommodate your individual design preferences. Please contact us: [www.tente.com/locations](http://www.tente.com/locations)



Bear



Cow



Cat



Aeroplane

# WHEELS





# FEATURES



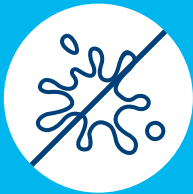
## Optimised manoeuvrability

Twin wheel castor with high manoeuvrability due to differential effect.



## Quiet rolling

Particularly soft wheel versions and noise-reduced fittings for a quiet working environment.



## Non-staining operation

Non-staining on contact with floors when left standing for long periods. Can also be used for floors made of untreated wood and natural stone.



## Non-marking movement

Wheels with reduced abrasion and little cleaning requirement.

# WHEELS

The characteristics of the wheel depend on the material. These wheels have reduced abrasion and little cleaning requirement. They are non-staining on contact with floors during long standing periods and can also be used for floors made of untreated wood and natural stone.



• **Supratech**

Extremely versatile with a smooth-running thermoplastic rubber treat.



• **Basetech**

Hard-wearing lightweight polypropylene wheels.

## Technical data and availability



		Supratech	Basetech
Description	Product name	Supratech	Basetech
	Article description	PJI	POI
	Tread material	Thermoplastic rubber	Polypropylene
	Tread hardness	Shore A 87	Shore D 65
	Wheel body material	Polypropylene	Polypropylene
	Temperature range	-10 °C/ +40 °C	-10 °C/ +40 °C
	Width of tread	8,5 mm	8,5 mm
Bearing type	Plain bearing	●	●
	Roller bearing	-	-
	Cone ball bearing	-	-
	Precision ball bearing	-	-
Load capacity	Wheel Ø 50 mm	40 kg	40 kg

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

### Bearing type



Plain bearing for short distances.



### Load capacity

The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements according to EN 12528 at a speed of 0,8 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

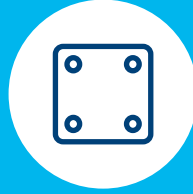


# FEATURES



## **Fast assembly**

Faster assembly thanks to easy plug-in fittings.

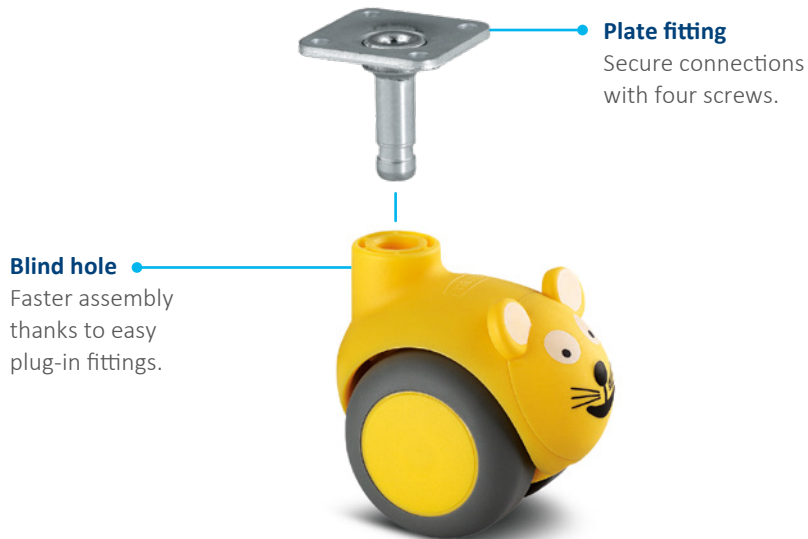


## **Variable fitting options**

Wide range of fittings in various sizes.



# PLUG-IN PLATE FITTINGS

For castors with blind hole, different plug-in plate fittings are available.



## Technical data and availability

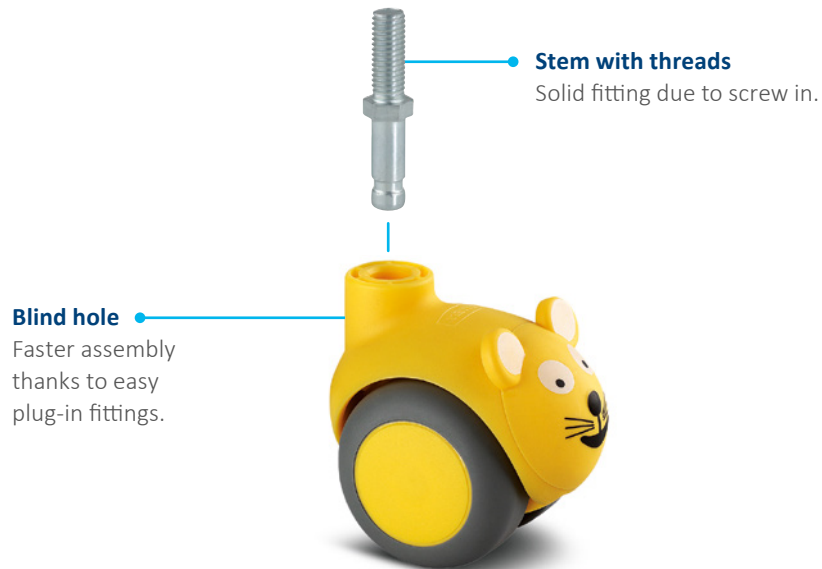


 <b>Description</b>	<b>Fitting type</b>	Stem with plate	Stem with plate	Stem with plate	Stem with plate
	<b>Article description</b>	P41	P41	P40	P41
	<b>Size of plate</b>	38 x 38 mm	42 x 42 mm	60 x 60 mm	65 x 65 mm
	<b>Plate hole centres</b>	27 x 27 mm	32 x 32 mm	48/38 x 48/38 mm	47/42 x 47/42 mm
	<b>Plate hole <math>\varnothing</math></b>	5,1 mm	5,1 mm	6,3 mm	6,3 mm
	<b>Compatible with blind hole <math>\varnothing</math></b>	10 mm	10 mm	10 mm	10 mm
 <b>Overall height</b>	<b>Additional castor height with this fitting*</b>	+11 mm	+11 mm	+11 mm	+9,5 mm

\* Please contact us for detailed information of the additional castor height with fitting.

# PLUG-IN THREADED STEM FITTINGS

For castors with blind hole fitting, different plug-in threaded stem fittings are available.



## Technical data and availability

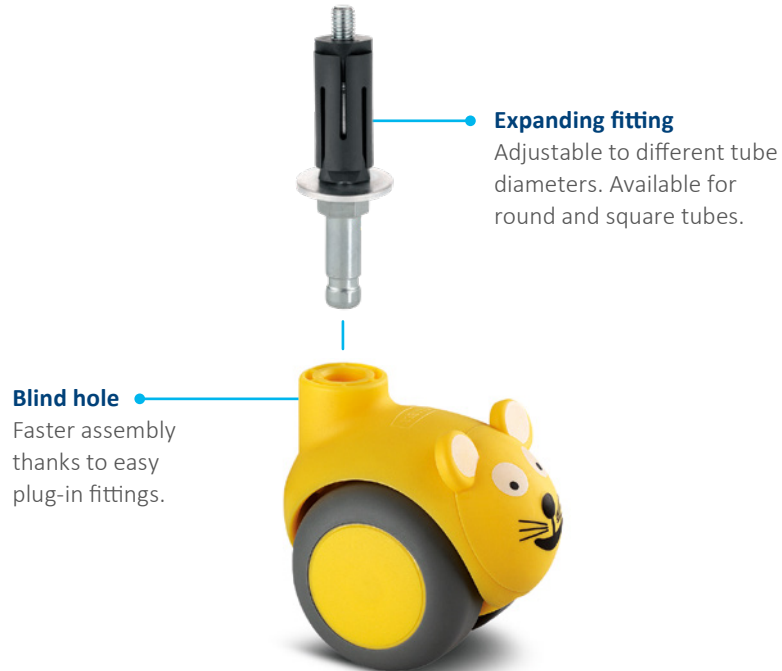


Description	Fitting type	Threaded stem	Threaded stem
	Article description	S70	S70
	Threaded stem measurements	M8 x 15 mm M10 x 10 mm M10 x 15 mm M10 x 25 mm M10 x 35 mm M10 x 50 mm	M10 x 78 mm
	Compatible with blind hole $\varnothing$	10 mm	10 mm
Overall height	Additional castor height with this fitting*	+6 mm	+0 mm





\* Please contact us for detailed information of the additional castor height with fitting.

# EXPANDING FITTINGS FOR TUBES

The adjustable expanders are for a flexible installation in different tube sizes.



## Technical data and availability

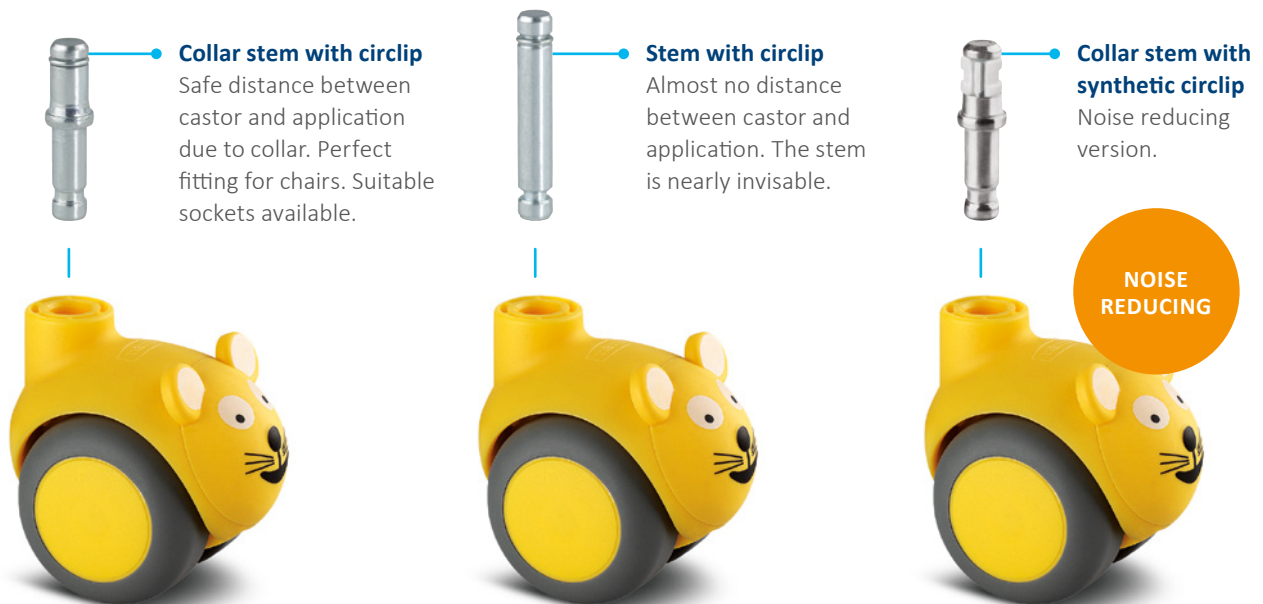
			
<b>Description</b> 	<b>Fitting type</b>	Expander, round	Expander, square
	<b>Article description</b>	R07	R47
	<b>Expander measurements</b>	Ø 19 - 21,5 mm Ø 21,5 - 24 mm Ø 24 - 27 mm Ø 27 - 30 mm Ø 31 - 35 mm	21,5 - 24 mm 24 - 27 mm 27 - 30 mm 32 - 35 mm 36 - 40 mm
	<b>Compatible with blind hole Ø</b>	10 mm	10 mm
<b>Overall height</b> 	<b>Additional castor height with this fitting*</b>	+9 mm	+9 mm

\* Please contact us for detailed information of the additional castor height with fitting.






# PLUG-IN STEM FITTINGS

For all castors with a blind hole fitting, different plug-in fittings are available which allow for a faster assembly. These fittings are installation-friendly and provide an efficient fixation.



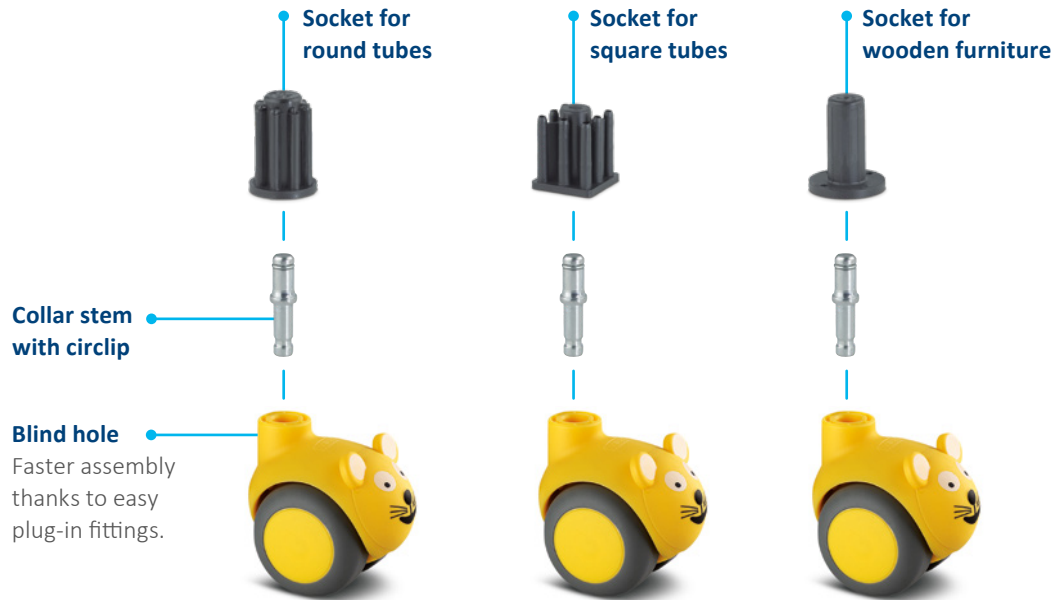
## Technical data and availability

				
<b>Description</b>	<b>Fitting type</b>	Collar stem with circlip	Stem with circlip	Collar stem with synthetic circlip
	<b>Article description</b>	B10	B11	B40
	<b>Stem measurements (Ø x Length)</b>	9 x 24 mm 10 x 20 mm 11 x 20 mm 11 x 30 mm	10 x 33 mm	11 x 20 mm
	<b>Compatible with Blind hole Ø</b>	10 mm	10 mm	10 mm
<b>Overall height</b>	<b>Additional castor height with this fitting*</b>	+4,5 mm	+0 mm	+4,5 mm

\* Please contact us for detailed information of the additional castor height with fitting.

# SOCKETS

For an easy and solid assembly under different applications, the plug-in collar stem fittings can be combined with different sockets.



## Technical data and availability

			
<b>Socket type</b>	Round socket for tubes	Square socket for tubes	Round socket for wooden furniture
<b>Article description</b>	R20	R40	H40
<b>Compatible with product</b>	B10 11 x 30 mm	B10 11 x 30 mm	B10 11 x 30 mm
<b>Socket <math>\varnothing</math> / collar <math>\varnothing</math></b>	14 / 18 mm 15 / 18 mm 16 / 18 mm 17 / 19 mm 18 / 20 mm 19 / 21 mm 20 / 21 mm 22 / 25 mm 23 / 26 mm	16 / 20 mm 17 / 19 mm 18 / 20 mm 21 / 23,5 mm 22 / 24,5 mm 23 / 25,5 mm 26 / 30 mm	15 mm
<b>Socket height</b>	36 mm	36 mm	36 mm

# ADDITIONAL FEATURES



## **Non-hazardous materials**

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



## **Tested quality**

Tested in our own laboratory to comply with European standards.

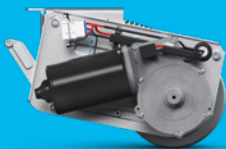
# DIVERSITY WITH A SYSTEM

## 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](http://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



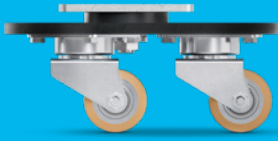
⊃ 360 - 750 kg  
⌀ 160 - 200 mm

Omikron



⊃ 900 - 11.000 kg  
⌀ 100 - 500 mm

Radiata



1.200 - 1.500 kg  
80 mm

Scout



150 - 350 kg  
160 - 200 mm

Integral



100 - 150 kg  
100 - 200 mm

Integral twin



125 - 250 kg  
100 - 150 mm

Linea clinic



150 - 200 kg  
125 - 150 mm

Aviana care



100 kg  
75 mm

Aviana



75 mm

Agila



40 - 100 kg  
50 - 150 mm

Agila twin



50 - 100 kg  
50 - 75 mm

Stora



60 - 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

Linea



40 - 150 kg  
50 - 150 mm

Anika



40 - 50 kg  
55 - 75 mm

Lumina



30 - 100 kg  
35 - 75 mm

Stylea



40 - 100 kg  
35 - 100 mm

Smiles



40 kg  
50 mm

Compacta



10 - 55 kg  
14 - 50 mm

# EXPERTISE THAT INSPIRES

## CONTACT US

We are a globally operating company supporting you on five continents. This means on-site support with service on a level playing field – along with in-depth knowledge. Additionally, our solution experts will advise you on the best mobility concept for your needs. Go here to find your nearest TENTE location: [www.tente.com/locations](http://www.tente.com/locations)

## INCREASE YOUR EFFICIENCY

Our intelligent mobility solutions help you save time, effort, energy, and operating expenses. This allows you to improve your operating methods and working conditions, thereby optimising your processes and ensuring higher productivity, profitability and safety. Ask for our solutions catalogue or read about how our customers benefit from our tailor-made solutions on our website: [www.tente.com/solutions](http://www.tente.com/solutions)

## SAVE DEVELOPMENT TIME

On our website you will find technical drawings, product data sheets and 2D and 3D CAD files in various formats: [www.tente.com/smiles](http://www.tente.com/smiles)

## GET MORE INFORMATION

In addition to our informative website, you can easily download various catalogues and brochures on mobility solutions, customer references, and much more: [www.tente.com/download](http://www.tente.com/download)



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PRODUCTIVITY



SAFETY



DESIGN



DURABILITY



ENVIRONMENT