

PRODUCT INFORMATION

INTEGRAL TWIN

 125 - 250 kg  129 - 193 mm  100 - 150 mm



TENTE

BETTER MOBILITY. BETTER LIFE.

INTEGRAL TWIN

Full choice of customisable product solutions.



HOUSINGS

Pages: 6-11



WHEELS

Page: 12-17



FITTINGS

Pages: 18-21

INTEGRAL TWIN LOAD

Castor for loads up to 250 kg and high torsional stiffness.



INTEGRAL TWIN LOAD

Pages: 22-25

INTEGRAL TWIN TORSION

Castor with high torsional stiffness.



INTEGRAL TWIN TORSION

Pages: 26-29

MOBILITY FROM THE WORLD MARKET LEADER

TENTE believes in smart mobility solutions which noticeably improve people's lives and their working environment. As the world market leader in hospital bed castors, we have developed many customer-focussed solutions which increase productivity, ensure safety and open up new horizons in matters of design, 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 Integral twin product family. We will also demonstrate the added value this mobility solution offers to your organisation. Features include:

Optimised manoeuvrability

Twin wheel castor with high manoeuvrability due to differential effect.

Quite and smooth actuation

Very low actuation forces ensure smooth and quiet operation.

Quality made in Germany

For decades continuously optimized to customer requirements.



INTEGRAL TWIN



FEATURES



Optimised manoeuvrability

Twin wheel castor with high manoeuvrability due to differential effect.



Award-winning design

Awarded with prestigious prizes by international juries.



Certified safety

TÜV Süd certified performance standard.



Permanent washability

Optional versions with all metal components made of stainless steel.



Chemical-resistant components

Resistant to many cleaning agents and chemical substances.



Colour matching

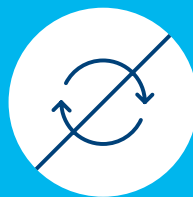
Colours can be adapted to match the product design. Standard colours:

 RAL 9002



Non-hazardous materials

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).



Strong stand

Optional: High torsional stiffness ensures that operating tables or heavy applications have a secured stand.



Individual branding

Can be printed with a logo.

HOUSINGS



FEATURES



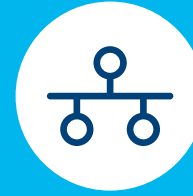
Optimised steering mechanism

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



User-friendly central lock

Simultaneous locking of more than one castor using a central actuation lever.



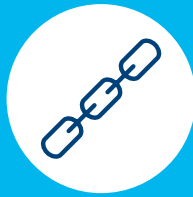
Practical system solution

Practical system solution with all technical components for central locking.



Easy steering

Precision ball bearing in swivel head.



Strong construction

The inner fork made of pressed steel or pressed stainless steel carries the main load.



Multistage switching function

Up to three locking positions: directional lock, total lock or free mobility.



Extremely strong construction

Optional: Load bearing welded steel housing for heavy load.



Reduced cleaning

Castors are quick and easy to clean thanks to their mainly smooth surfaces.



Secured stand

Total lock for simultaneously locking the wheel and swivel housing.

HOUSINGS

The frame is made of pressed steel, with precision ball bearing in swivel head and wheel. The housing cover is made of synthetic materials and stem with cam hole for profile bars. These castors are quick and easy to clean thanks to their mainly smooth surfaces.

Central total lock

Simultaneous locking of the wheel and swivel bearing for secure standing with more than one castor.



Central total and directional lock

User-friendly central lock for simultaneous locking of more than one castor. Combined directional lock for improved steering around bends, as well as movement in a straight line over long distances. Total lock for simultaneously locking the wheel and swivel bearing to allow for secure standing.



Wide range

Find castors with high torsional stiffness on page 22 and 26. Castors with high load capacity on page 22.



Standard colour:

● RAL 9002

Other colours on request.

The 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 REACH regulation of the European Union. These do not contain polycyclic aromatic hydrocarbons or chromium (VI). All components are resistant to many cleaning agents and chemical substances.

Swivel castor

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



TÜV certified

The performance standard of these castors even surpasses the requirements of the regulations set out in European standard DIN EN 12531.





Integrated cable protection

To protect lying cables on the floor and to avoid interruptions during transportation, we offer for this castors an integrated cable pusher already mounted ex works.

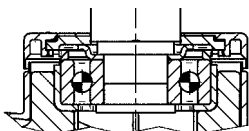
Standard castors



 Description	Housing type	Swivel castor	Swivel castor with central total or directional lock	Swivel castor with central total lock
	Article description	2940	2944	2946
	Frame material	Pressed steel	Pressed steel	Pressed steel
	Housing cover material	Synthetic	Synthetic	Synthetic
	Swivel bearing	Precision ball bearing	Precision ball bearing	Precision ball bearing
	High torsional stiffness	-	-	-
	Washable	-	-	-
 Swivel interference	Wheel \varnothing 100 mm	162 mm	162 mm	162 mm
	Wheel \varnothing 125 mm	200 mm	200 mm	200 mm
	Wheel \varnothing 150 mm	240 mm	240 mm	240 mm

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



Swivel bearing



Precision ball bearing for best manoeuvrability.

Washable castors

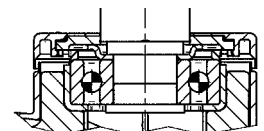


 Description	Housing type	Swivel castor with central total or directional lock	Swivel castor with central total lock
	Article description	7944	7946
	Frame material	Pressed stainless steel	Pressed stainless steel
	Housing cover material	Synthetic	Synthetic
	Swivel bearing	Precision ball bearing	Precision ball bearing
	High torsional stiffness	-	-
	Washable*	●	●
 Swivel interference	Wheel Ø 100 mm	162 mm	162 mm
	Wheel Ø 125 mm	200 mm	200 mm
	Wheel Ø 150 mm	240 mm	240 mm

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

* Washable versions with sealed wheel bearings or complete washable versions with pressed stainless steel housings, sealed or stainless steel wheel bearings. Washable castors must be sealed in the fitting area by the customer.

Swivel bearing



Precision ball bearing for best manoeuvrability.

WHEELS

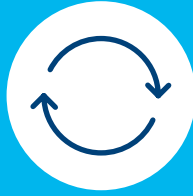


FEATURES



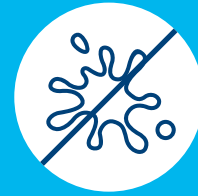
Certified conductivity

Optional: Conductive version to protect users and electrical devices from electrostatic discharge.



Comfortable manoeuvrability

Outstanding swivel and rolling properties due to optimised tread geometry and material selection.



Non-staining operation

Non-staining on contact with floors during long standing periods.



Protective seal

Optional: Wheels with sealed bearings to protect against spray water and dirt.



Non-marking movement

Wheels with reduced abrasion and little cleaning requirement.

WHEELS

The ideal combination of precision ball bearings, polyurethane treads and wheels with excellent geometry ensures outstanding manoeuvrability and minimal force required to push your application. Durability, stability and washability are basic requirements.



Maxtech

Perfect for functional design, injection-moulded polyurethane. Extremely hard-wearing and hygienic. There's also an optional washable version with a sealed precision ball bearing.

Maxtech conductive











Polyurethane with certified conductivity to protect users and electrical devices against electrostatic discharge. These castors have a yellow dot on the clip as standard so they can be easily identified.

The 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 REACH regulation of the European Union. These do not contain polycyclic aromatic hydrocarbons or chromium (VI). All components are insensitive to many cleaning agents and chemical substances. Castors have smooth surfaces that are quick and easy to clean.



• **Supratech**
Extremely versatile with a smooth-running thermoplastic rubber tread.

Technical data and availability

					
Description	 Product name	Maxtech	Maxtech	Maxtech stainless	Maxtech conductive
	Article description	UAP	UAX	UAC	USC
	Tread material	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	Tread hardness	Shore D 42	Shore D 42	Shore D 42	Shore D 42
	Wheel body material	Polyamide	Polyamide	Polyamide	Polyamide
	Temperature range	-30 °C / +80 °C	-30 °C / +80 °C	-30 °C / +80 °C	-30 °C / +80 °C
	Width of tread / wheel diameter in mm	15 mm / Ø 100 12 mm / Ø 125 15 mm / Ø 150	15 mm / Ø 100 12 mm / Ø 125 15 mm / Ø 150	- - 15 mm / Ø 150	15 mm / Ø 100 12 mm / Ø 125 -
	Electric conductive (10 ⁴ OHM)	-	-	-	●
	Washable*	-	-	●	●
Bearing type	 Plain bearing	-	-	-	-
	 Roller bearing	-	-	-	-
	 Cone ball bearing	-	-	-	-
	 Precision ball bearing	●	● Sealed	● Stainless steel	● Stainless steel
Load capacity**	 Wheel Ø 100 mm	125 kg	125 kg	-	125 kg
	Wheel Ø 125 mm	125 kg	125 kg	-	125 kg
	Wheel Ø 150 mm	150 kg	150 kg	150 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 Integral twin castors.

* Washable versions with sealed wheel bearings or complete washable versions with pressed stainless steel housings, sealed or stainless steel wheel bearings.

Washable castors must be sealed in the fitting area by the customer.

** Load capacity according to DIN 12531.

Maxtech conductive	Maxtech conductive
USP	USX
Polyurethane	Polyurethane
Shore D 42	Shore D 42
Polyamide	Polyamide
-30 °C / +80 °C	-30 °C / +80 °C
15 mm / Ø 100 12 mm / Ø 125 15 mm / Ø 150	15 mm / Ø 100 12 mm / Ø 125 15 mm / Ø 150
●	●
-	●
-	-
-	-
-	-
●	● Sealed
125 kg	125 kg
125 kg	125 kg
150 kg	150 kg

Bearing types



Precision ball bearing for highest performance.

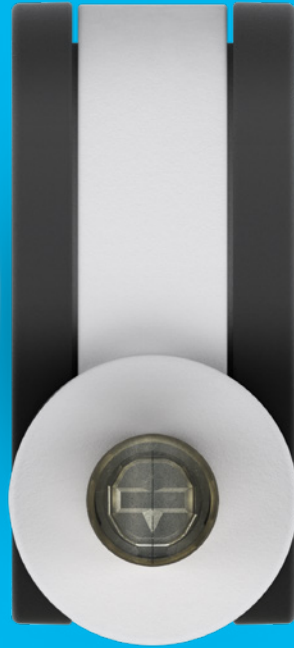


Load capacity

The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements according to EN 12531 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.

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

FITTINGS



FEATURES



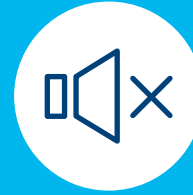
Fast assembly

Faster assembly thanks to easy quick fitting solution.



Highly customisable

Switching angles, brake and actuation forces are adaptable to your needs.



Quite and smooth actuation

Little effort and noise needed to activate castors - which ensures a quiet and smooth use.



Tested quality

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



Low overall height

Reduced risk of injury and enhanced patient safety due to short fitting options.

SOLID STEM FITTINGS

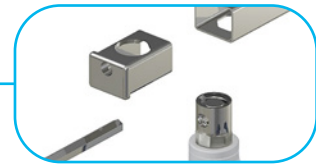
For an easy mounting into tubes we offer different solid stem fittings. You can choose between different sizes and locking functions. The stems are highly customisable. Very low actuation forces ensure smooth and quiet operation. In addition to the standard way of assembly, we also offer a special fitting type for fast assembly.

Stems with central locking function

Choose between central total lock or central total and directional lock. Very low actuation forces ensure smooth and quiet operation. The switching angles, brake and actuation forces are adaptable to your needs. Contact us.

Cam hole
To connect the castors by profile bars.

QUIET & SMOOTH ACTUATION



Quick fitting

Save assembly time and material costs with a stem with octagonal profile. Fitting screws are not necessary. The octagonal profile just needs to fit to the octagonal profile at the frame.

Thread
For safe fixation with screws.

Solid stem

Easy mounting in tubes. For a long-lasting use, the stem is bright zinc plated and blue passivated.



Technical data and availability

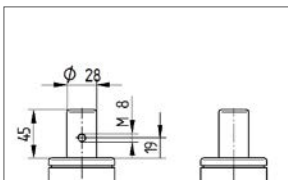


Description	Fitting type	Solid stem	Stem with central total lock or central total and directional lock	Solid stem	Stem with central total lock or central total and directional lock	Stem with central total lock or central total and directional lock
	Article description	R05-28	R26-28	R05-32	R36-32	R36-34
	Shape	Round	Round	Round	Round	Round with octagonal profile
	Thread for fixation screw	M8	4 x M8	M6	4 x M6	-
	Thread position from bottom	19 mm	19 mm	7 mm	7 mm	-
	Solid stem \varnothing	28 mm	28 mm	32 mm	32 mm	32 mm
	Solid stem length	45 mm	96 mm	45 mm	50 mm	51 mm
	Shifting angles for actuation forces	-	30° or 45°	-	30° or 45°	30° or 45°
	Spring type for brake force	-	Soft, standard or hard	-	Soft, standard or hard	Soft, standard or hard
Overall height	Wheel \varnothing 100 mm	129 mm	129 mm	129 mm	129 mm	129 mm
	Wheel \varnothing 125 mm	150 mm	150 mm	150 mm	150 mm	150 mm
	Wheel \varnothing 150 mm	175 mm	175 mm	175 mm	175 mm	175 mm

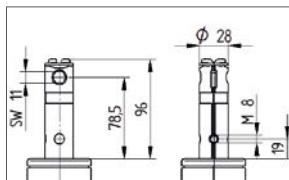
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Technical drawings

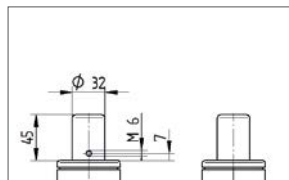
R05-28



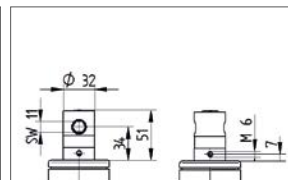
R26-28



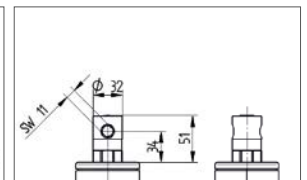
R05-32



R36-32



R36-34



INTEGRAL TWIN LOAD





INTEGRAL TWIN LOAD

This castor has the same characteristics as the Integral twin, but with high torsional stiffness and high load up to 250 kg. This extreme torsional stiffness ensures that operating tables or heavy applications have a secure stand.

Housing versions



Description	 Housing type	Swivel castor with central total or directional lock	Swivel castor with central total lock
	Article description	3944	3946
	Frame material	Welded, reinforced steel	Welded, reinforced steel
	Housing cover material	Synthetic	Synthetic
	Swivel bearing	Double precision ball bearings	Double precision ball bearings
	High torsional stiffness	●	●
	Washable	-	-
Swivel interference	 Wheel Ø 100 mm	-	-
	Wheel Ø 125 mm	-	-
	Wheel Ø 150 mm	240 mm	240 mm



Standard colour:

● RAL 9002

Other colours on request.

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






Extremely strong construction

Castors with a wheel diameter of 150 mm have double precision ball bearings in the swivel head and wheel, with a reinforced, welded steel housing for a higher load capacity of 250 kg as well as high torsional stiffness.

Wheel version



Description	 Product name	Maxtech load
	Article description	UAP
	Tread material	Polyurethane
	Tread hardness	Shore D 42
	Wheel body material	Polyamide
	Temperature range	-30 °C / +80 °C
	Width of tread	15 mm
	Electric conductive (10 ⁴ OHM)	-
Bearing type	 Plain bearing	-
	Roller bearing	-
	Cone ball bearing	-
	Precision ball bearing	● Two, stainless steel
Load capacity*	 Wheel Ø 100 mm	-
	Wheel Ø 125 mm	-
	Wheel Ø 150 mm	250 kg



Load capacity

The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements according to EN 12531 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.

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



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 Integral twin load castors.

* Load capacity according to DIN 12531.

Fitting version



Description	 Fitting type	Solid stem with central total and directional lock
	Article description	R36-32
	Shape	Round
	Thread for fixation screw	4 x M6
	Thread position from bottom	7 mm
	Solid stem \varnothing	32 mm
	Solid stem length	50 mm
	Shifting angles for actuation forces	30° or 45°
	Spring type for brake force	Soft, standard or hard
Overall height	 Wheel \varnothing 100 mm	-
	Wheel \varnothing 125 mm	-
	Wheel \varnothing 150 mm	193 mm

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

Cam hole  To connect the castors by profile bars.

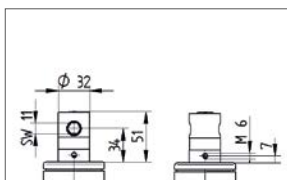
Solid stem  Easy mounting in tubes.

Thread  For safe fixation with screws.



Technical drawing

R36-32



INTEGRAL TWIN TORSION



INTEGRAL TWIN TORSION

This castor has the same characteristics as the Integral twin, but with high torsional stiffness. This extreme torsional stiffness ensures that operating tables have a secure stand.

Housing versions



		Description	
		Swivel castor with central total or directional lock	Swivel castor with central total lock
Description	Housing type	Swivel castor with central total or directional lock	Swivel castor with central total lock
	Article description	3944	3946
	Frame material	Welded, reinforced steel	Welded, reinforced steel
	Housing cover material	Synthetic	Synthetic
	Swivel bearing	Precision ball bearing	Precision ball bearing
	High torsional stiffness	●	●
	Washable*	●	●
Swivel interference	Wheel Ø 100 mm	-	-
	Wheel Ø 125 mm	200 mm	200 mm
	Wheel Ø 150 mm	-	-

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

* Washable versions with stainless steel bearings. Washable castors must be sealed in the fitting area by the customer.



Standard colour:

● RAL 9002

Other colours on request.

Wheel version



		Maxtech stainless	Maxtech conductive
		Description	
i	Product name	Maxtech stainless	Maxtech conductive
	Article description	UAC	UAP
	Tread material	Polyurethane	Polyurethane
	Tread hardness	Shore D 40	Shore D 42
	Wheel body material	Polyamide	Polyamide
	Temperature range	-30 °C / +80 °C	-30 °C / +80 °C
	Width of tread	12 mm	15 mm
	Electric conductive (10 ⁴ OHM)	●	●
	Washable*	●	●
Bearing type	Plain bearing	-	-
	Roller bearing	-	-
	Cone ball bearing	-	-
	Precision ball bearing	● Two, stainless steel	● Two, stainless steel
Load capacity*	Wheel Ø 100 mm	-	-
	Wheel Ø 125 mm	125 kg	125 kg
	Wheel Ø 150 mm	-	-

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 Integral twin torsion castors.

* Load capacity according to DIN 12531.





Load capacity

The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements according to EN 12531 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.

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

Fitting version



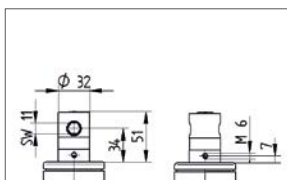
Description	 Fitting type	Solid stem with central total and directional lock
	Article description	R36-32
	Shape	Round
	Thread for fixation screw	4 x M6
	Thread position from bottom	7 mm
	Solid stem \varnothing	32 mm
	Solid stem length	50 mm
	Shifting angles for actuation forces	30° or 45°
	Spring type for brake force	Soft, standard or hard
Overall height	 Wheel \varnothing 100 mm	-
	Wheel \varnothing 125 mm	150 mm
	Wheel \varnothing 150 mm	-

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

-  **Cam hole**
For profile bars to centrally lock the castor.
-  **Solid stem**
Easy mounting in tubes.
-  **Thread**
For safe fixation with screws.

Technical drawing

R36-32



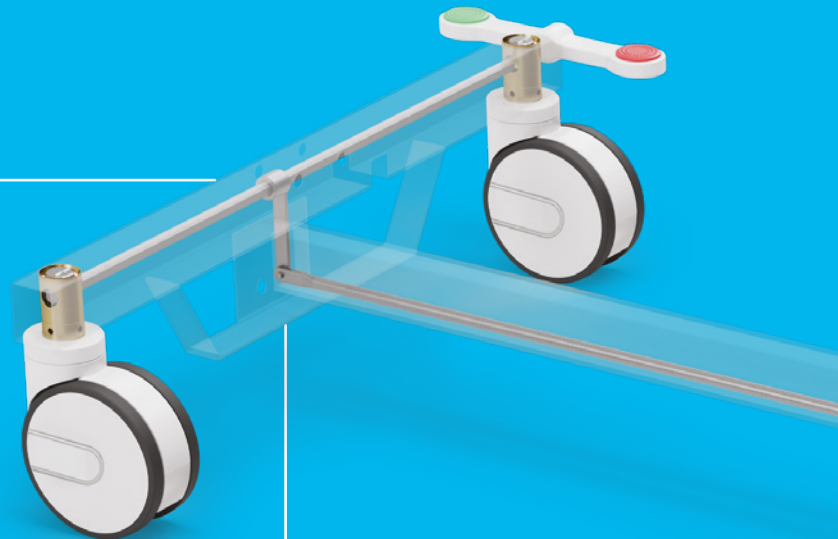
ACCESSORIES FOR CENTRAL LOCKING

Our central locking components offer a practical solution for your needs. Please contact us for further advice.



Change lever

To connect the transmission bar from the foot end to the head end. It is available in three different sizes.

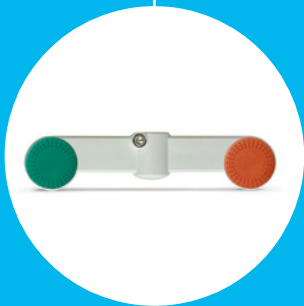
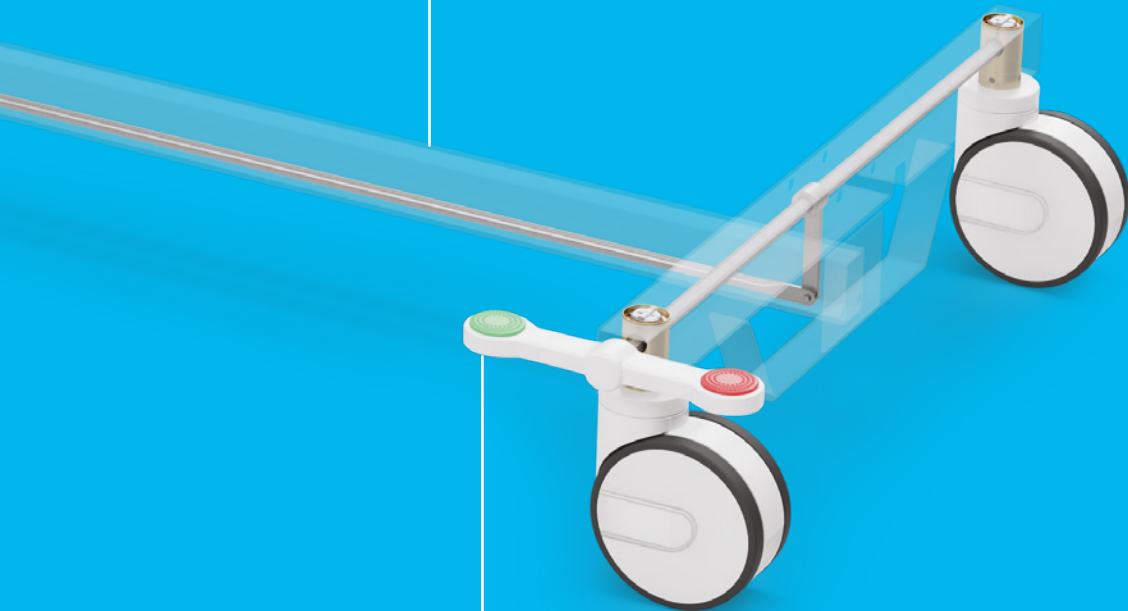


Bearing guide



Profile bar

Available in different lengths,
on request.



TENTE lever

All change levers will be delivered
with a stainless steel screw. They are
available as a single or double lever
for the right and left side. Plugs are
available in different colours.



Optional: adaptor for customer levers

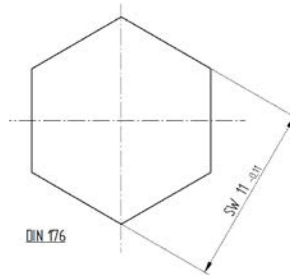
This round adaptor accepts customer
made levers.

TECHNICAL DATA ACCESSORIES

Profile bar



i	Article description	Profile bar
	Wrench size	11
	Material	Zinc-plated steel
	Length	On request



TENTE levers



Description	Change lever type	Double lever	Lever	Lever
	Article description	Double lever	Lever	Lever 180
	Compatible with product	30° or 45°	30° or 45°	30° or 45°
	Material	Fibreglass-reinforced polyamide	Fibreglass-reinforced polyamide	Fibreglass-reinforced polyamide
	Version	Left version Right version	Left version	Right version
	Width	41,5 mm	41,5 mm	41,5 mm
	Length	191,5 mm	95,75 mm	95,75 mm

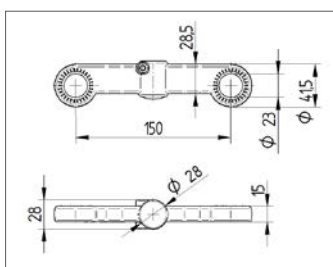
Standard lever colours
More colours on request.

- RAL 7035
- Eloxal silver

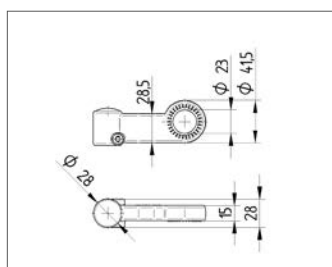
Standard plug colours
More colours on request.

- RAL 6016
- RAL 3016
- RAL 9011

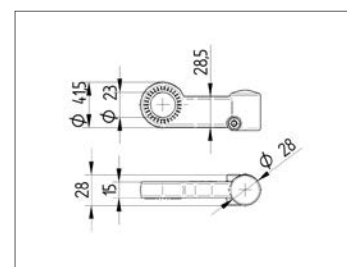
Double lever



Lever, left version



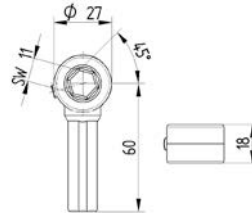
Lever 180, right version



Adaptor for customer levers



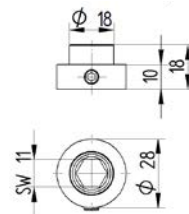
i	Article description	Adaptor
	Wrench size	11
	Material	Zinc die cast



Bearing guide



i	Article description	Bearing guide
	Wrench size	11
	Material	Zinc die cast

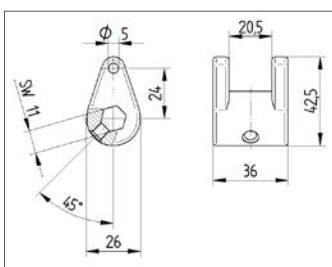


Change lever

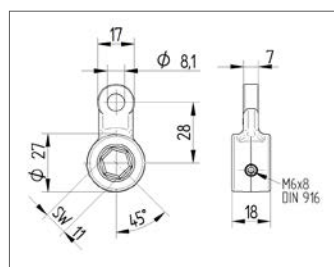


i	Article description	Change lever	Change lever	Change lever
	Wrench size	11	11	11
	Material	Zinc die cast	Zinc die cast	Zinc die cast
	Length	24 mm	28 mm	65 mm

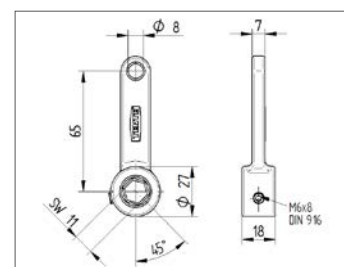
Change lever 24 mm length



Change lever 28 mm length



Change lever 65 mm length



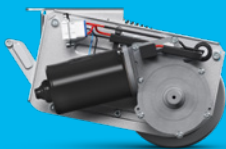
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E-Drive



⌀ 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



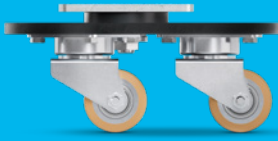
⊃ 360 - 750 kg
⌀ 160 - 200 mm

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

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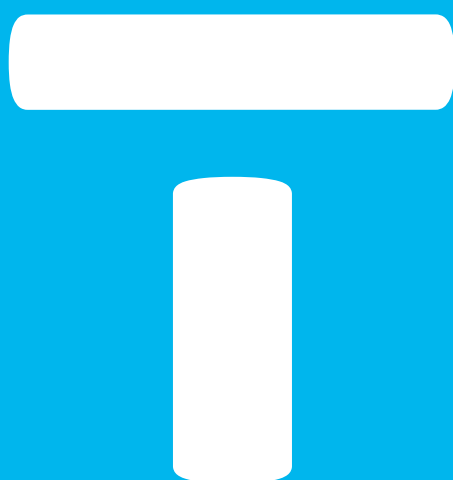
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PRODUCTIVITY



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