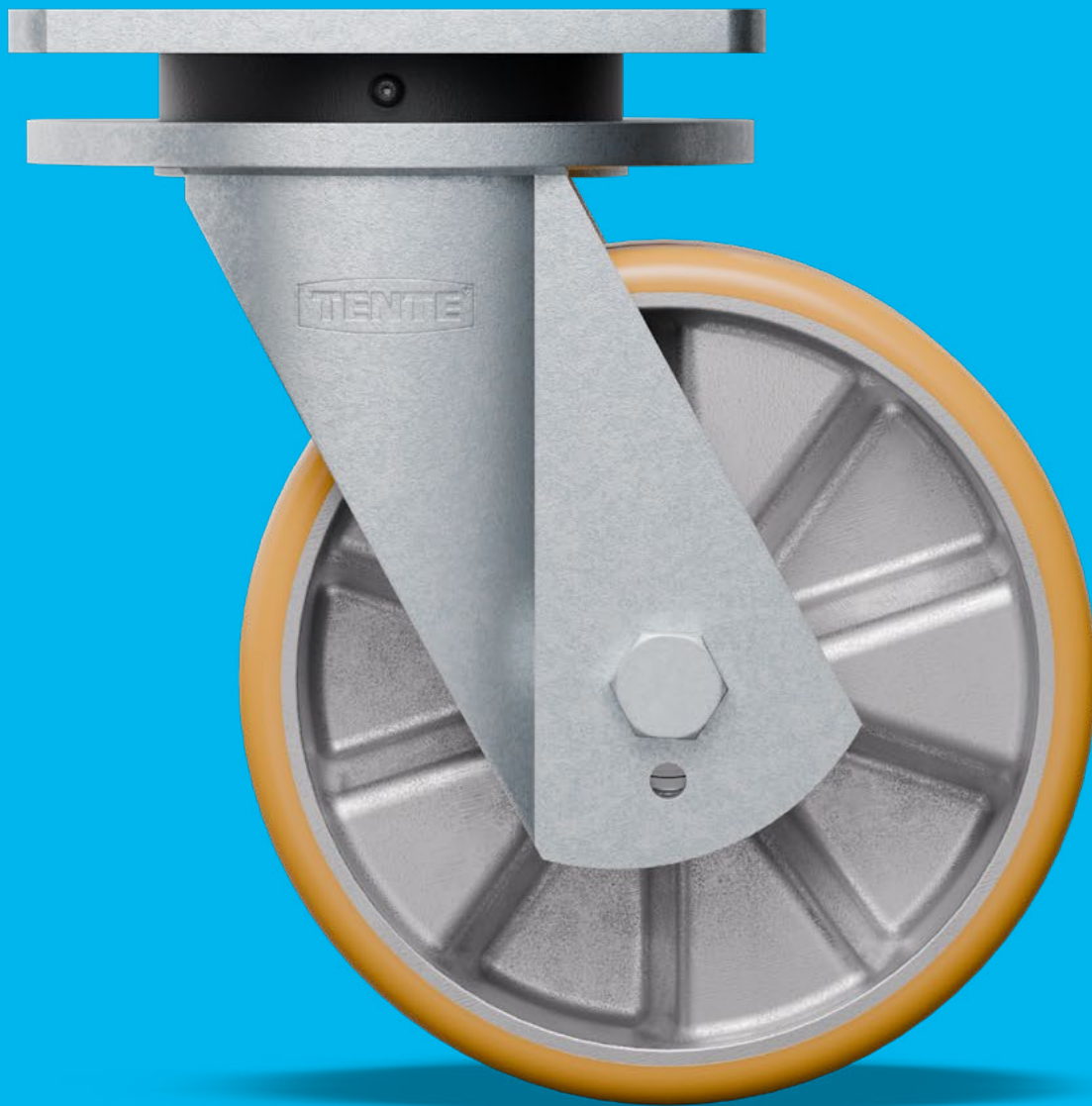


# PRODUCT INFORMATION

## KAPPA TWIN

 600 - 3.000 kg    156 - 355 mm    100 - 300 mm

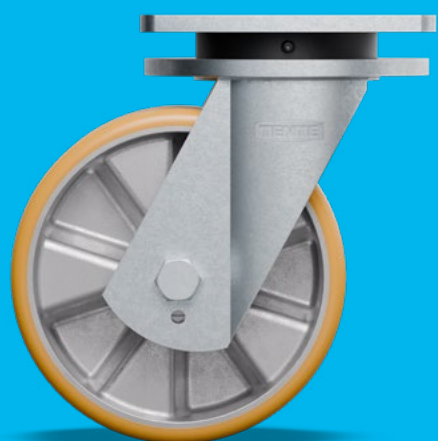


**TENTE**

BETTER MOBILITY. BETTER LIFE.

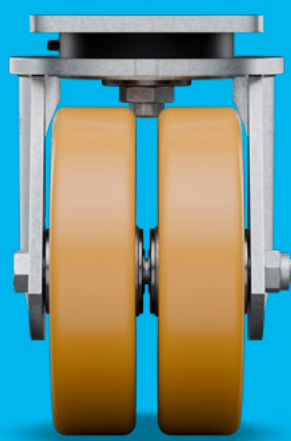
# HOUSING

PAGES: 4-7



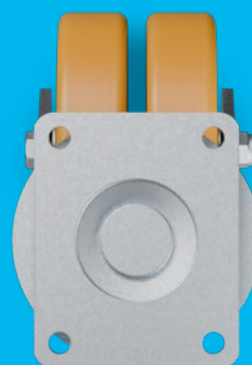
# WHEELS

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# FITTINGS

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OUR CASTORS AND WHEELS	16
ACCESSORIES	22
DIVERSITY WITH A SYSTEM: OUR CASTORS	24
EXPERTISE THAT INSPIRES	26

# BETTER MOBILITY IN PREMIUM QUALITY

Since 1923, TENTE has been developing smart mobility solutions that noticeably improve the lives of people and their working environment. Solutions that increase productivity, ensure more safety, and open new horizons in terms of design, durability, and environmental friendliness. Leading manufacturers and companies from a wide variety of industries trust our expertise and rely on our premium manufacturing quality.

On the following pages, you will find technical information about our Kappa product family. Additionally, you will learn about the added value this mobility solution offers for your company. Among other things:

## **Robust heavy-duty construction**

Welded housing made of solid steel for maximum load capacity.

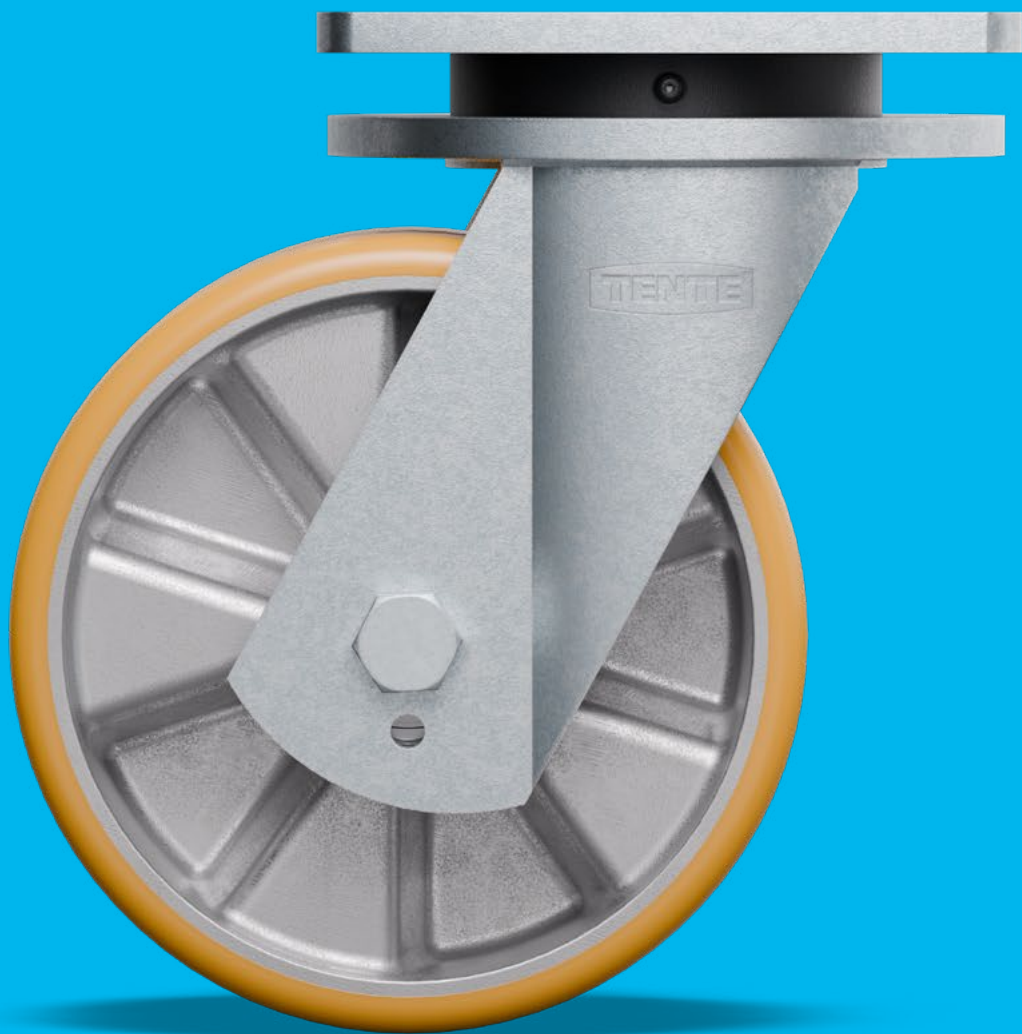
## **A variety of versions**

The Kappa product family impresses with 90 standard versions – an enormous selection for the highest standards and flexibility.

## **Optimized maneuverability**

Two-wheeled swivel castors with high maneuverability due to differential effect.

# HOUSING



# FEATURES



## Extremely stable construction

Massive steel-welded construction for highest load capacity.



## Secured position

Total lock for simultaneous locking of wheel and swivel housing.



## Fast maintenance

Swivel bearing with long-life grease and grease nipples for easy maintenance.



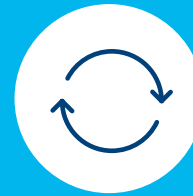
## Higher safety

Optional foot protection for all castor versions – can be retrofitted at the factory for additional protection during use.



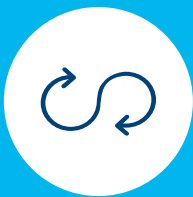
## Improved driving stability

Directional lock for improved driving stability in curves and easier straight-line tracking on long routes.



## Easy maneuverability

Deep groove ball thrust bearing and tapered roller bearing for optimal swiveling properties under high loads.



## Uninterrupted operation

Swivel bearing with dust ring for continuous operation without interruptions.



## Flexible locking

Two independent locking systems can be used simultaneously on one castor.



## Durable use

Robust construction for the highest demands.

# HOUSING

The robust housing is designed for high loads. It is welded from solid steel and offers a long life expectancy due to high-quality galvanization. The swivel bearing is lubricated with long-life grease and equipped with grease nipples for quick and easy maintenance. These features give the castor excellent swiveling properties even under demanding operational conditions. The stable construction is based on twin-wheel castor and is suitable for applications where heavy loads need to be moved safely and reliably.



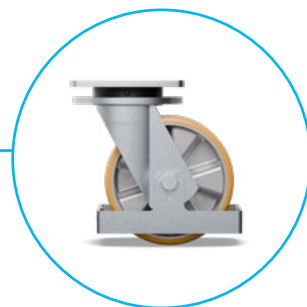
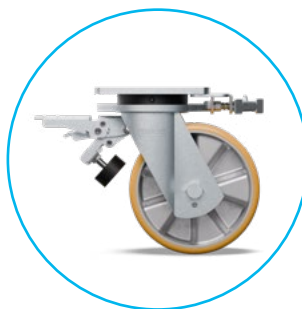
## Swivel castors

The wheel and housing are freely movable for easy maneuverability.



## Fixed castors

The wheel is freely movable while the housing is fixed. This ensures it cannot rotate, but only move forwards and backwards, ensuring stable movement.

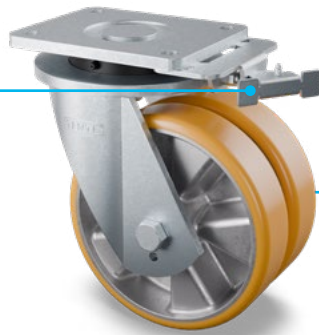


## Special solutions

Combinations of directional and total lock or with foot protection are available on enquiry.



**Directional lock**



**Swivel castors with directional lock (1x360°)**

When the directional lock is engaged, the wheel can be moved, but the housing is aligned in a fixed driving direction.



**Total lock (Kick pedal)**



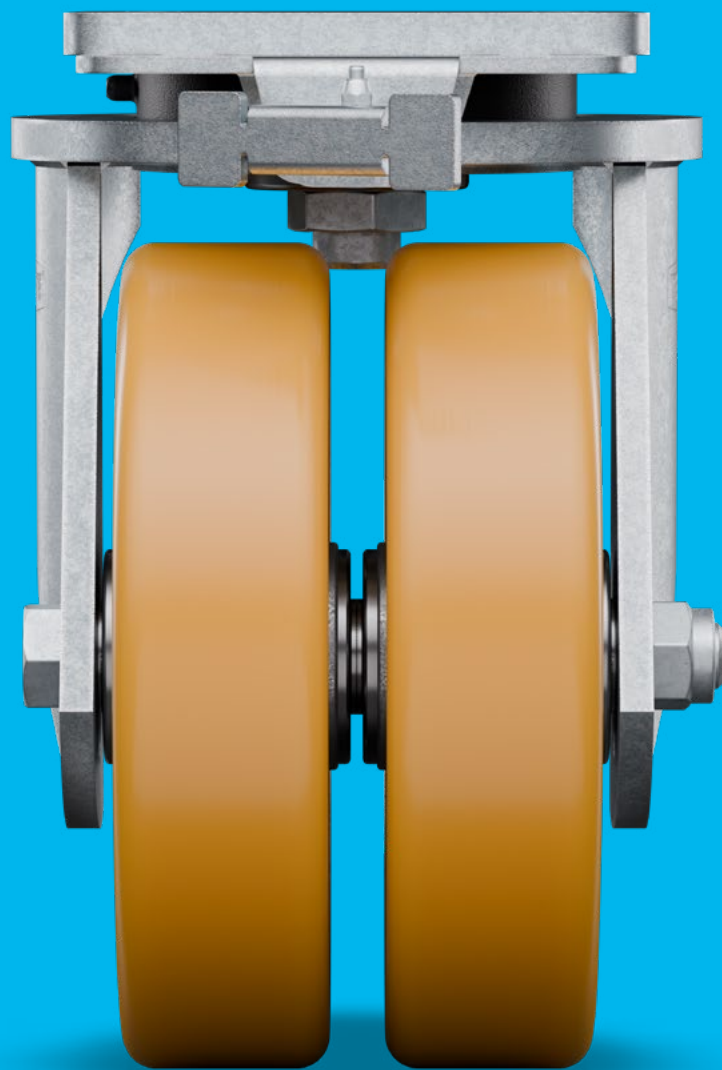
**Swivel castors with total lock (kick pedal)**

Locking function: Easy operation with practical kick pedal and separate lever for releasing the lock.  
Position: in front of the castor



The total lock is not intended as the sole locking mechanism on slopes, ramps, and uneven surfaces and should be enhanced with additional safety measures such as wedges or wheel chocks. It serves more as a movement restraint and does not meet the requirements of EN12532.

# WHEELS



# FEATURES



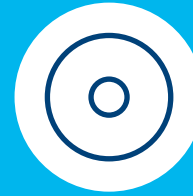
## Low-vibration transport

Extra soft wheels with good shock absorption properties.



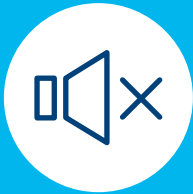
## Reliable traction

Traction-optimised treads for safe grip on wet and smooth floors.



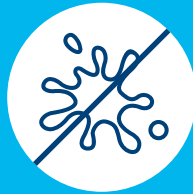
## Wear-resistant wheels

With exceptionally wear-resistant wheels made of casted polyamide.



## Low-noise operation

Especially soft wheel versions for a quiet working environment.



## Non-staining use

No contact discoloration during prolonged periods of standing.



## Ergonomic use

Wheels with optimized rolling resistance to reduce strain on the user.



## Non-marking movement

Wheels with reduced abrasion and low cleaning requirements.



## Resource-conserving part replacement

Wheels easily exchangeable due to bolted axles.

# WHEELS

The characteristics of a wheel depend on the material and the bearing. We offer wheels with reduced abrasion and little cleaning requirements for non-marking movement. Our durable wheels have traction-optimised treads for secure grip on wet and slippery floors. They are perfect for heavy-load transportation.



## Elastech tread (IEP)

The Elastech tread made of high-quality rubber impresses with very good floor protection, quiet operation, and high shock absorption. Floor irregularities and small obstacles are reliably overcome, ensuring high driving comfort. It is available with a black tread as well as in a gray, non-marking version. The rim made of aluminum die-cast offers high stability and value.

**Applications:** Suitable for indoor and outdoor use, ideal for uneven floors and noise-sensitive areas.

**Hardness:** Shore A 68

**Temperature range:** -20 °C / +85 °C

**Optional:** ESD-compliant



## Novatech tread (ITP)

The Novatech tread made from casted polyurethane is a versatile all-rounder. It is harder than rubber and therefore offers better castor properties while providing good floor protection and quiet operation. High load capacity and low abrasion values ensure reliable performance. The rim made of die-cast aluminum guarantees stability even under higher loads.

**Applications:** Indoor and outdoor – for versatile usage conditions with balanced comfort and efficiency.

**Hardness:** Shore A 92

**Temperature range:** -10 °C / +60 °C

**Optional:** ESD-compliant

EXTRA  
STABLE



#### **Duratech tread (TOP)**

The Duratech tread made from injected polyamide is particularly hard and designed for high loads. It offers excellent rolling properties, very low rolling resistance, and high wear resistance. Tread and rim are made of polyamide, which makes the castor particularly robust and durable.

**Applications:** Particularly suitable for indoor applications on level floors where high load capacity and maximum efficiency are required.

**Hardness:** Shore D 75

**Temperature range:** -40 °C / +80 °C

#### **Ball bearing types**

All wheels are fitted with two precision ball bearings.

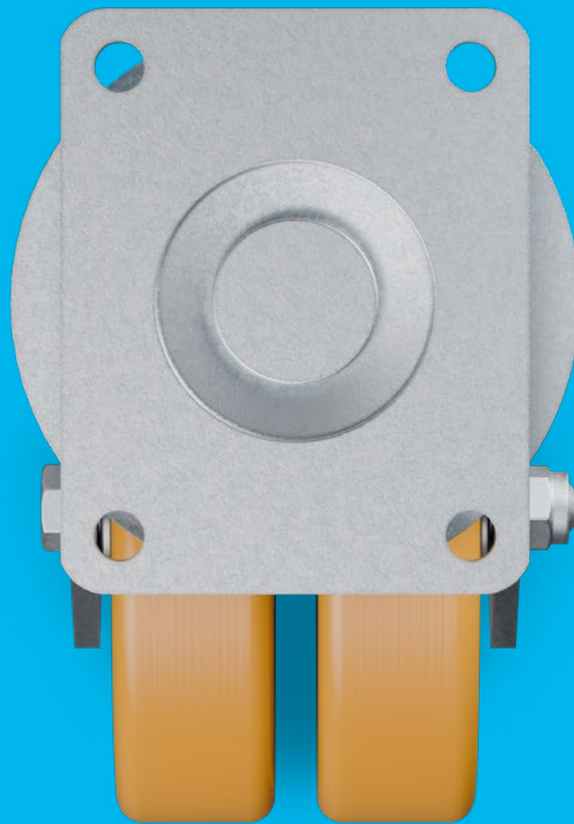


#### **Load capacity**

The load capacity depends on the housing and the wheel. It meets the requirements in accordance with the DIN EN 12532 standard. When using four castors, you can determine 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

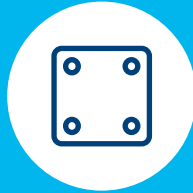


# FEATURES



## Secured plate fitting

Plate fitting screwed and secured with a stable bolt.



## Standard fittings

Plate fittings are manufactured according to industry standards.

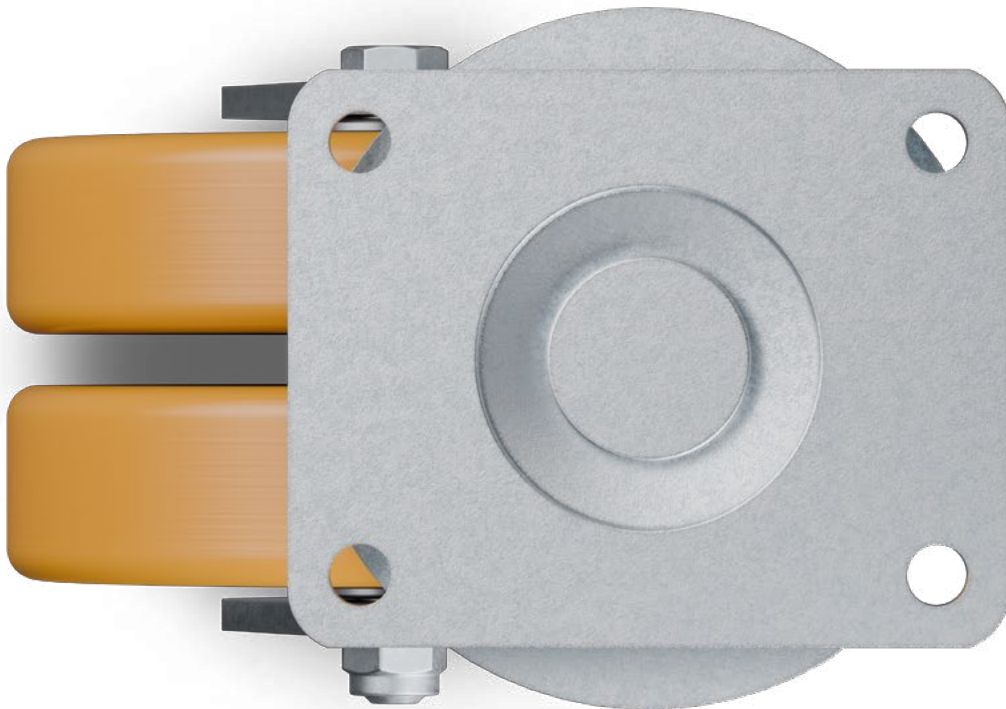


## Tailor-made fastening sizes

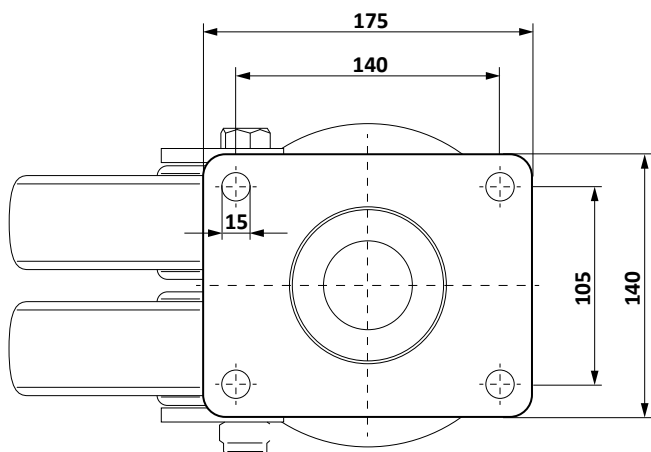
Individual plate measurements upon enquiry.

# PLATE FITTINGS

Our plate fittings offer a secure connection with four screws and a stable construction for maximum load capacity. This design ensures reliable fastening that withstands even the most demanding conditions. In our standard range, we offer two different mounting plates that vary in their external dimensions and hole patterns. This allows you to choose the optimal solution for your requirements and benefit from maximum load capacity.

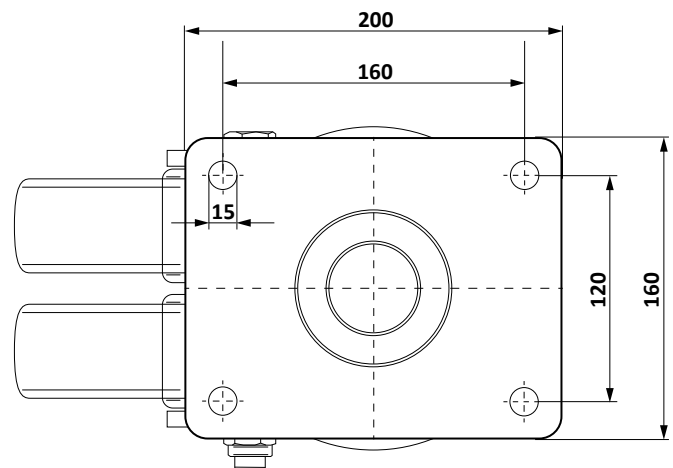


## P64



**Plate dimensions:** 175 x 140 mm  
**Hole pattern:** 140 x 105 mm  
**Screw hole  $\varnothing$ :** 15 mm

## P65



**Plate dimensions:** 200 x 160 mm  
**Hole pattern:** 160 x 120 mm  
**Screw hole  $\varnothing$ :** 15 mm






















Images on this page at a scale of 1:25

# KAPPA TWIN with polyurethane wheels

## Maximum load capacity and robustness

### Material

The twin castor with polyurethane wheels is mounted in a robust, galvanised, welded steel housing and features a deep groove ball thrust bearing, a tapered roller bearing, and a secured wheel axle. The grease nipple ensures easy maintenance of the rear bearing and thus a long life expectancy.

	Wheel Ø (mm)	Wheel width (mm)	Plate dimensions (mm)	Plate hole spacing (mm)	Plate hole (mm)	Overall height (mm)	Swivel interference Ø (mm)	Offset	Load capacity (kg)	Item name
<b>Swivel castors</b>										
	100	2x50	175x140	140x105	15	156	214	40	1,200	9950ITP100P64 smart
	125	2x50	175x140	140x105	15	181	242	47	1,500	9950ITP125P64 smart
	160	2x50	175x140	140x105	15	216	284	53	1,800	9950ITP160P64 smart
	200	2x50	175x140	140x105	15	255	344	65	2,000	9950ITP200P64 smart
	250	2x50	175x140	140x105	15	305	392	65	2,200	9950ITP250P64 smart
<b>Fixed castors</b>										
	100	2x50	175x140	140x105	15	156	-	-	1,200	9958ITP100P64 smart
	125	2x50	175x140	140x105	15	181	-	-	1,500	9958ITP125P64 smart
	160	2x50	175x140	140x105	15	216	-	-	1,800	9958ITP160P64 smart
	200	2x50	175x140	140x105	15	255	-	-	2,000	9958ITP200P64 smart
	250	2x50	175x140	140x105	15	305	-	-	2,200	9958ITP250P64 smart



#### Wheel ITP:

Rim made of casted aluminum,  
Tread made of casted polyurethane,  
precision ball bearing





All P64 castors are also available in P65.  
Please contact us for further information.

# KAPPA TWIN with polyurethane wheels

## Maximum load capacity and robustness

### Material

The twin castor with polyurethane wheels is mounted in a robust, galvanised, welded steel housing and features a deep groove ball thrust bearing, a tapered roller bearing, and a secured wheel axle. The grease nipple ensures easy maintenance of the rear bearing and thus a long life expectancy.


















	Wheel Ø (mm)	Wheel width (mm)	Plate dimensions (mm)	Plate hole spacing (mm)	Plate hole (mm)	Overall height (mm)	Swivel interference Ø (mm)	Offset	Load capacity (kg)	Item name
<b>Swivel castors with directional lock</b> 										
	100	2x50	175x140	140x105	15	156	214	40	1,200	9951ITP100P64 smart
	125	2x50	175x140	140x105	15	181	242	47	1,500	9951ITP125P64 smart
	160	2x50	175x140	140x105	15	216	284	53	1,800	9951ITP160P64 smart
	200	2x50	175x140	140x105	15	255	344	65	2,000	9951ITP200P64 smart
	250	2x50	175x140	140x105	15	305	392	65	2,200	9951ITP250P64 smart
<b>Swivel castors with total lock (kick pedal)</b> 										
	100	2x50	175x140	140x105	15	156	366	40	1,200	9952ITP100P64 smart
	125	2x50	175x140	140x105	15	181	366	47	1,500	9952ITP125P64 smart
	160	2x50	175x140	140x105	15	216	366	53	1,800	9952ITP160P64 smart
	200	2x50	175x140	140x105	15	255	366	65	2,000	9952ITP200P64 smart
	250	2x50	175x140	140x105	15	305	392	65	2,200	9952ITP250P64 smart

# KAPPA TWIN with polyamide wheels

## Highest stability and load capacity

### Material

The twin castor with polyamide wheels is mounted in a robust, galvanised, welded steel housing and features a deep groove ball thrust bearing, a tapered roller bearing, and a secured wheel axle. The grease nipples ensure easy maintenance of the back bearing and therefore a long life expectancy.

	Wheel Ø (mm)	Wheel width (mm)	Plate dimensions (mm)	Plate hole spacing (mm)	Plate hole (mm)	Overall height (mm)	Swivel interference Ø (mm)	Offset	Load capacity (kg)	Item name
<b>Swivel castors</b>										
	100	2x50	175x140	140x105	15	156	214	40	1,500	9950TOP100P64
	125	2x50	175x140	140x105	15	181	242	47	1,800	9950TOP125P64
	160	2x50	175x140	140x105	15	216	284	53	2,000	9950TOP160P64
	200	2x50	175x140	140x105	15	255	344	65	2,500	9950TOP200P64
	250	2x50	175x140	140x105	15	305	392	65	3,000	9950TOP250P64
<b>Fixed castors</b>										
	100	2x50	175x140	140x105	15	156	-	-	1,500	9958TOP100P64
	125	2x50	175x140	140x105	15	181	-	-	1,800	9958TOP125P64
	160	2x50	175x140	140x105	15	216	-	-	2,000	9958TOP160P64
	200	2x50	175x140	140x105	15	255	-	-	2,500	9958TOP200P64
	250	2x50	175x140	140x105	15	305	-	-	3,000	9958TOP250P64



**Wheel TOP:**  
Rim and tread made of injected polyamide,  
precision ball bearing



All P64 castors are also available in P65.  
Please contact us for further information.

# KAPPA TWIN with polyamide wheels

## Highest stability and load capacity

### Material

The twin castor with polyamide wheels is mounted in a robust, galvanised, welded steel housing and features a deep groove ball thrust bearing, a tapered roller bearing, and a secured wheel axle. The grease nipples ensure easy maintenance of the back bearing and therefore a long life expectancy.




















	Wheel Ø (mm)	Wheel width (mm)	Plate dimensions (mm)	Plate hole spacing (mm)	Plate hole (mm)	Overall height (mm)	Swivel interference Ø (mm)	Offset	Load capacity (kg)	Item name
<b>Swivel castors with directional lock</b>										
	100	2x50	175x140	140x105	15	156	214	40	1,500	9951TOP100P64
	125	2x50	175x140	140x105	15	181	242	47	1,800	9951TOP125P64
	160	2x50	175x140	140x105	15	216	284	53	2,000	9951TOP160P64
	200	2x50	175x140	140x105	15	255	344	65	2,500	9951TOP200P64
	250	2x50	175x140	140x105	15	305	392	65	3,000	9951TOP250P64
<b>Swivel castors with total lock (kick pedal)</b>										
	100	2x50	175x140	140x105	15	156	366	40	1,500	9952TOP100P64
	125	2x50	175x140	140x105	15	181	366	47	1,800	9952TOP125P64
	160	2x50	175x140	140x105	15	216	366	53	2,000	9952TOP160P64
	200	2x50	175x140	140x105	15	255	366	65	2,500	9952TOP200P64
	250	2x50	175x140	140x105	15	305	392	65	3,000	9952TOP250P64

# KAPPA TWIN with solid rubber wheels

## Robust performance and high shock absorption for versatile applications

### Material

The double castor with solid rubber wheels is mounted in a robust, galvanised, welded steel housing and features a deep groove ball thrust bearing, tapered roller bearings, as well as a secured wheel axle. The grease nipples ensure easy maintenance of the rear bearing and thereby a long life expectancy.

	Wheel Ø (mm)	Wheel width (mm)	Plate dimensions (mm)	Plate hole spacing (mm)	Plate hole (mm)	Overall height (mm)	Swivel interference Ø (mm)	Offset	Load capacity (kg)	Item name
<b>Swivel castors</b>										
	125	2x50	175x140	140x105	15	181	214	47	600	9950IEP100P64
	160	2x50	175x140	140x105	15	216	242	53	700	9950IEP125P64
	200	2x50	175x140	140x105	15	255	284	65	900	9950IEP160P64
	250	2x50	175x140	140x105	15	305	344	65	1,000	9950IEP200P64
	300	2x50	175x140	140x105	15	355	392	76	1,200	9950IEP250P64
<b>Fixed castors</b>										
	125	2x50	175x140	140x105	15	181	-	-	600	9958IEP100P64
	160	2x50	175x140	140x105	15	216	-	-	700	9958IEP125P64
	200	2x50	175x140	140x105	15	255	-	-	900	9958IEP160P64
	250	2x50	175x140	140x105	15	305	-	-	1,000	9958IEP200P64
	300	2x50	175x140	140x105	15	355	-	-	1,200	9958IEP250P64



### Wheel IEP:

Rim made of die-cast aluminum,  
Tread vulcanised elastic running surface,  
precision ball bearing



All P64 castors are also available in P65.  
Please contact us for further information.

# KAPPA TWIN with solid rubber wheels

## Robust performance and high shock absorption for versatile applications

### Material

The double castor with solid rubber wheels is mounted in a robust, galvanised, welded steel housing and features a deep groove ball thrust bearing, tapered roller bearings, as well as a secured wheel axle. The grease nipples ensure easy maintenance of the rear bearing and thereby a long life expectancy.

	Wheel Ø (mm)	Wheel width (mm)	Plate dimensions (mm)	Plate hole spacing (mm)	Plate hole (mm)	Overall height (mm)	Swivel interference Ø (mm)	Offset	Load capacity (kg)	Item name
<b>Swivel castors with directional lock</b>										
	125	2x50	175x140	140x105	15	181	214	47	600	9951IEP100P64
	160	2x50	175x140	140x105	15	216	284	53	700	9951IEP125P64
	200	2x50	175x140	140x105	15	255	344	65	900	9951IEP160P64
	250	2x50	175x140	140x105	15	305	392	65	1,000	9951IEP200P64
	300	2x50	175x140	140x105	15	355	462	76	1,200	9951IEP250P64
<b>Swivel castors with total lock (kick pedal)</b>										
	125	2x50	175x140	140x105	15	181	214	47	600	9952IEP100P64
	160	2x50	175x140	140x105	15	216	284	53	700	9952IEP125P64
	200	2x50	175x140	140x105	15	255	344	65	900	9952IEP160P64
	250	2x50	175x140	140x105	15	305	392	65	1,000	9952IEP200P64
	300	2x50	175x140	140x105	15	355	462	76	1,200	9952IEP250P64

# ACCESSORIES

We offer suitable accessories such as the rigid foot protection made of steel, which prevents any contact between foot and wheel. This increases personnel safety and reduces accidents. This can also be retrofitted if necessary.



For castors that are delivered without foot protection, longer axle material is required for later retrofitting.



## FOOT PROTECTION FEATURES



### Foot protection

The rigid foot protection increases safety in daily use. The robust version, firmly mounted on the housing, ensures long-lasting protection.



### Less downtime

Reduces accident risks, thereby reducing follow-up costs in daily operation.



### Quickly retrofitted

Easily mountable on existing TENTE castors – without drilling or realignment.



### Available ready for assembly

Pre-assembled upon request for immediate and effortless integration.

# 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 – for all your needs. Contact us for more information or visit our website: [www.tente.com](http://www.tente.com)

E-Drive ultimate



⌀ 125 mm

E-Drive optima



⌀ 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 - 3,000 kg  
⌀ 80 - 300 mm

Kappa flex



⊃ 360 - 750 kg  
⌀ 160 - 200 mm

Omikron



⊃ 1,200 - 15,000 kg  
⌀ 100 - 500 mm

Radiata



⊃ 1,200 - 1,500 kg  
⌀ 80 mm

Scout



⊃ 150 - 350 kg  
⌀ 160 - 200 mm

Linea industrial



⊃ 60 - 150 kg  
⌀ 75 - 150 mm

Integral assist



100 - 150 kg  
150 mm

Integral



100 - 150 kg  
100 - 200 mm

Integral twin



125 - 250 kg  
100 - 150 mm

Linea clinic



150 - 200 kg  
125 - 150 mm

Forma



125 - 150 kg  
125 - 150 mm

Aviana care



100 kg  
75 mm

Aviana



100 kg  
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

Levina care



100 kg  
100 - 125 mm

Linea



40 - 150 kg  
50 - 150 mm

Anika



40 - 50 kg  
55 - 75 mm

Lumina



10 - 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. Visit our website to find your nearest TENTE location: [www.tente.com/en-de/locations](http://www.tente.com/en-de/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/mobility-solutions](http://www.tente.com/mobility-solutions)

## SAVE DEVELOPMENT TIME

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

## 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/en-de/download-center](http://www.tente.com/en-de/download-center)



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PRODUCTIVITY



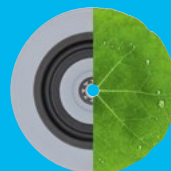
SAFETY



DESIGN



DURABILITY



ENVIRONMENT