

PRODUCT INFORMATION

KAPPA

 300 - 3.000 kg

 135 - 355 mm

 80 - 300 mm



TENTE

BETTER MOBILITY. BETTER LIFE.

KAPPA

Castors for loads up to 1.200 kg.



HOUSINGS

Pages: 4-9



WHEELS

Pages: 10-15



FITTINGS

Pages: 16-19

KAPPA LOAD

Castors for loads up to 3.000 kg.



LOAD VERSION

Pages: 20-23

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 Kappa product family. We will also demonstrate the added value this mobility solution offers to your organisation. Features include:

Secured mounting plate

Mounting plate secured with kingpin and safety nut.

Easy steering

Swivel bearing with axial ball bearing and tapered roller bearing for excellent swivelling properties under high loads.

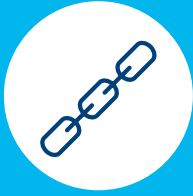
Flexible lock function

Use of two independent actuation systems in one castor.

HOUSINGS



FEATURES



Heavy duty construction

Welded solid steel construction for highest load capacity.



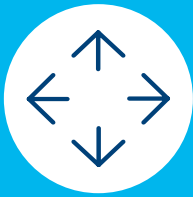
Secured stand

Total lock for simultaneously locking the wheel and swivel housing.



Quick maintenance

Swivel bearings lubricated with long-life grease and is fitted with a grease dispenser for easy maintenance.



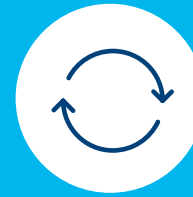
Optimised directional lock

Directional lock can be adjusted to your requirements to 2 x 180° or 4 x 90°.



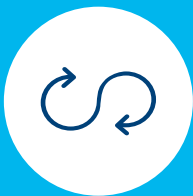
Optimised steering mechanism

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



Easy steering

Swivel bearing with axial ball bearing and tapered roller bearing for excellent swivelling properties under high loads.



Uninterrupted use

Swivel bearing with dust ring for continuous, uninterrupted movement.



Flexible lock function

Use of two independent actuation systems in one castor.



Permanent use

Robust construction for highest demands.

HOUSINGS

The housings are made of welded solid steel, galvanically finished surfaces for maximum rust protection. Constructed for highest load capacity and tough conditions. There are two types of housings available with different swivel bearings and performance.

- **Swivel castor**

Wheel and housing are free to move for easy manoeuvrability.



- **Directional lock**

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



- **Ergonomic total lock system**

Locking according to the ballpoint pen principle. For quick and easy operation with any kind of footwear. This brake system contains two pedals: One to lock the castor, the other for easy release.

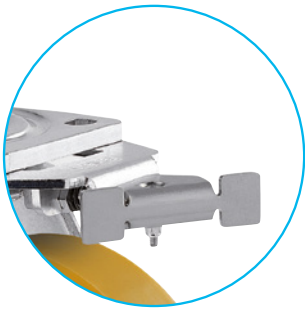


- **Fixed castor**

The wheel is free and the housing fixed. It cannot swivel, but can move forwards and backwards to allow a stable movement.



The materials are tested in our own laboratory to ensure they are compliant with European standards. Non hazardous materials are used in order to comply with the RoHS directive and REACH regulation of the European Union.



• **Flexible lock function**

Use of two independent actuation systems in one castor. It is possible to combine the total lock housing together with the directional lock modul. Please contact us.



• **Spring loaded housing**

Spring loaded housings for low-vibration transport. Please contact us.



Kappa load

The Kappa is also available as "load" version which can carry higher loads than the standard Kappa. Please see page 20.

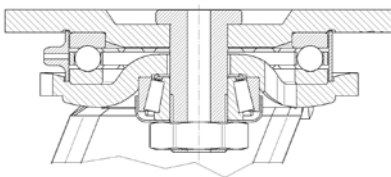
Premium castors for best manoeuvrability



Description 	Housing type	Swivel castor	Swivel castor with directional lock	Swivel castor with total lock	Fixed castor
	Article description	9650	9651	9652	9658
	Material	Welded steel	Welded steel	Welded steel	Welded steel
	Swivel bearing	Sealed swivel bearing with axial ball bearing and tapered roller bearing	Sealed swivel bearing with axial ball bearing and tapered roller bearing	Sealed swivel bearing with axial ball bearing and tapered roller bearing	-
Swivel interference 	Wheel ø 80 mm	-	-	-	-
	Wheel ø 100 mm	-	-	-	-
	Wheel ø 125 mm	225 mm	225 mm	366 mm	●
	Wheel ø 150 mm	275 mm	275 mm	366 mm	●
	Wheel ø 160 mm	280 mm	280 mm	366 mm	●
	Wheel ø 200 mm	320 mm	320 mm	366 mm	●
	Wheel ø 250 mm	375 mm	375 mm	374 mm	●
	Wheel ø 300 mm	445 mm	445 mm	458 mm	●

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

Swivel bearing



Sealed swivel bearing with axial ball bearing and tapered roller bearing for best manoeuvrability.



Quick maintenance

Swivel bearings lubricated with long-life grease and fitted with grease dispenser for easy maintenance.

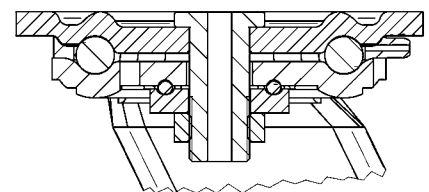
Standard castors for good manoeuvrability



Description	Housing type	Swivel castor	Swivel castor with directional lock	Swivel castor with total lock	Fixed castor
	Article description	9680	9681	9682	9688
	Material	Welded steel	Welded steel	Welded steel	Welded steel
	Swivel bearing	Sealed single swivel double ball bearing	Sealed single swivel double ball bearing	Sealed single swivel double ball bearing	-
Swivel interference	Wheel Ø 80 mm	162 mm	162 mm	-	●
	Wheel Ø 100 mm	182 mm	182 mm	-	●
	Wheel Ø 125 mm	225 mm	225 mm	366 mm	●
	Wheel Ø 150 mm	275 mm	275 mm	366 mm	●
	Wheel Ø 160 mm	280 mm	280 mm	366 mm	●
	Wheel Ø 200 mm	320 mm	320 mm	366 mm	●
	Wheel Ø 250 mm	375 mm	375 mm	374 mm	●
	Wheel Ø 300 mm	445 mm	445 mm	458 mm	●

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Swivel bearing

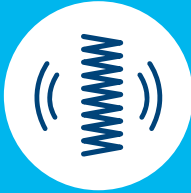


Sealed single swivel double ball bearing for good manoeuvrability.

WHEELS



FEATURES



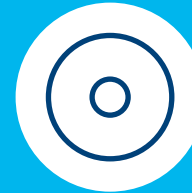
Low-vibration transport

Extra soft wheels with good shock-absorbing properties.



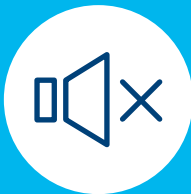
Reliable traction

Traction-optimised treads for secure grip on wet and slippery floors.



Low wear and tear wheels

Durable wheels with extremely low wear and tear properties.



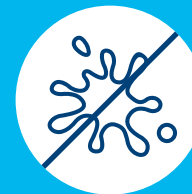
Quiet rolling

Soft wheel versions for a quiet working environment.



Increased occupational safety

Partially elastic foot protection to reduce accidents. Also used on uneven floors.



Non-staining operation

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



Ergonomically friendly use

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



Non-marking movement

Wheels with reduced abrasion and little cleaning requirement.



Resource conserving part replacement

Threaded axles allow effortless wheel change.

WHEELS

The characteristics of a wheel depend on the material and the bearing. Due to a very reduced abrasion our wheels are extremely wear-resistant and therefore durable. In addition, they are characterized by a very low need of cleaning and do not cause a stain when they are in contact with floors for a long period of time.



Elastech

Quiet-running elastic rubber for smoothest handling properties. Conductive and non-marking versions available.



Duratech

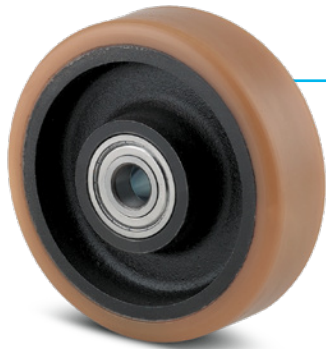
Stable and robust, made of injected polyamide and thermosetting plastic.

EXTRA
STABLE



Duratech load

Extra stable and robust, made of extra strong polyamide, casted and turned.



• **Novatech**

Highly resilient classics with cast polyurethane coating, abrasion and cut-resistant tread for less maintenance. Available in two shore hardnesses.



• **Novatech antistatic**

Highly resilient classics with cast polyurethane coating. Optional antistatic ($\leq 10^7$ Ohm).



• **Ultratech**

Outstanding performance through premium polyurethane, suitable for high load at high speed. Available in two shore hardnesses.



• **Ultratech hydro**

Outstanding performance through premium polyurethane. Hydrolysis resistant material.

Technical data and availability

EXTRA
STABLE

		Elastech	Duratech	Duratech load	Novatech
Description	Product name	IEP, IFP, ILP, IYP	TOP, TOO	MOP	FTP, ETP
	Article description	IEP, IFP, ILP, IYP	TOP, TOO	MOP	FTP, ETP
	Tread material	Vulcanized elastic-tyre in grey (non-marking) or black	Polyamide, heavy duty	Polyamide, extra strong	Polyurethane, casted
	Tread hardness	Shore A 68	Shore D 75	Shore D 75	Shore A 92, A 80
	Wheel body material	Aluminium	Polyamide	Polyamide	Cast iron or steel
	Temperature range	-20 °C / +85 °C	-40 °C / +80 °C	-40 °C / +80 °C	-20 °C / +60 °C
	Width of tread	50 mm 55 mm -	50 mm - -	50 mm - -	50 mm - 60 mm
	Antistatic (10 ⁷ OHM)	Optional	-	-	Optional
	Electric conductive (10 ⁴ OHM)	Optional	-	-	-
	Bearing type	Plain bearing	-	●	-
Roller bearing		-	-	-	-
Cone ball bearing		-	-	-	-
Precision ball bearing		●	●	●	●
Load capacity	Wheel Ø 80 mm	-	-	-	500 kg*
	Wheel Ø 100 mm	-	600 kg	1.200 kg	450 kg
	Wheel Ø 125 mm	240 kg	700 kg	1.200 kg	550 kg
	Wheel Ø 150 mm	-	800 kg	1.200 kg	700 kg
	Wheel Ø 150 mm / width 60 mm	-	-	-	800 kg
	Wheel Ø 160 mm	280 kg	850 kg	1.200 kg	750 kg
	Wheel Ø 200 mm	360 kg	1.000 kg	1.200 kg	1.000 kg
	Wheel Ø 200 mm / width 60 mm	-	-	-	1.200 kg
	Wheel Ø 250 mm	400 kg	1.000 kg	1.200 kg	1.200 kg
	Wheel Ø 250 mm / width 55 mm	-	-	-	-
Wheel Ø 300 mm	480 kg	-	-	1.200 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 Kappa product family. The load capacity of a single wheel without housing could be different.

* Just the housing types of 9680, 9681, 9682, 9688.

PREMIUM
QUALITY

Novatech	Ultratech	Ultratech hydro
ITP	FCP, ECP, ICP	ICP hydro, FCP hydro, ECP hydro
Polyurethane, casted	Polyurethane, casted	Polyurethane, casted
Shore A 92, A 80	Shore A 92, A 75	Shore A 92
Aluminium	Aluminium, cast iron or steel	Aluminium, cast iron or steel
-20 °C / +60 °C	-20 °C / +60 °C	-30 °C / +60 °C
50 mm 55 mm -	50 mm 55 mm 60 mm	50 mm 55 mm 60 mm
Optional	-	-
-	-	-
-	-	-
-	-	-
-	-	-
●	●	●
-	500 kg*	500 kg*
453 kg	450 kg	450 kg
400 kg	550 kg	550 kg
520 kg	700 kg	700 kg
-	800 kg	800 kg
640 kg	750 kg	750 kg
640 kg	1.000 kg	1.000 kg
-	1.200 kg	1.200 kg
-	1.200 kg	1.200 kg
800 kg	-	800 kg
-	1.200 kg	1.200 kg



Kappa load

The Kappa is also available as "load" version which can carry higher loads than the standard Kappa. Please see page 20.

Bearing types



Plain bearing for short distances.



Precision ball bearing for highest performance.

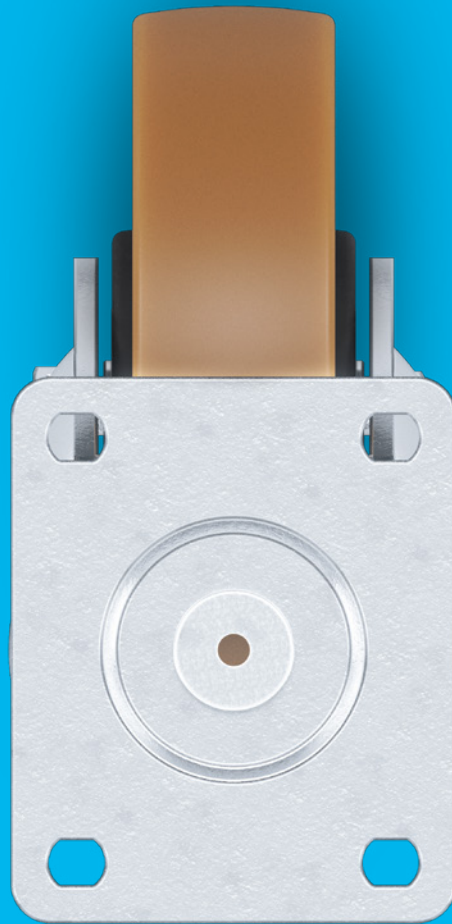


Load capacity

The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements according to EN 12533 at a speed of 6 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

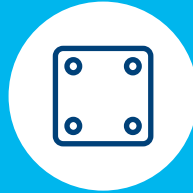


FEATURES



Secured mounting plate

Mounting plate secured with kingpin and safety nut.



Standard fittings

Plate fittings are according to industrial standards.



Customised fitting sizes

Plate fitting size on request.

PLATE FITTINGS

Secure connection with four screws. All plates for Kappa product family are secured with kingpin and safety nut.



Plate fitting
Mounting plate to be assembled with four screws and safety nuts.

Technical data and availability



Description	Swivel plate		Fixed plate	
	Fitting type	Swivel plate	Swivel plate	Fixed plate
	Article description	P63	P63	P63
	Compatible with wheels in width	50 mm 55 mm 60 mm	50 mm 55 mm 60 mm	50 mm 55 mm 60 mm
	Size of plate	135 x 110 mm	135 x 110 mm	135 x 110 mm
	Plate hole centres	105 x 80/75 mm	105 x 80/75 mm	105 x 80/75 mm
	Plate hole \varnothing	11 mm	11 mm	11 mm
Overall height	Wheel \varnothing 80 mm	135 mm	135 mm	135 mm
	Wheel \varnothing 100 mm	145 mm	145 mm	145 mm
	Wheel \varnothing 125 mm	170 mm	170 mm	170 mm
	Wheel \varnothing 150 mm	200 mm	200 mm	200 mm
	Wheel \varnothing 160 mm	205 mm	205 mm	205 mm
	Wheel \varnothing 200 mm	245 mm	245 mm	245 mm
	Wheel \varnothing 250 mm	305 mm	305 mm	305 mm
	Wheel \varnothing 300 mm	355 mm	355 mm	355 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).



Certified conductivity

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



Tested quality

Tested in our own laboratory for compliance with European standards.

KAPPA LOAD



HOUSINGS

The Kappa is also available as "load" version which can carry higher loads than the standard Kappa.



Strong housing

The housing is made of welded solid steel with zinc-iron finishing against corrosion.

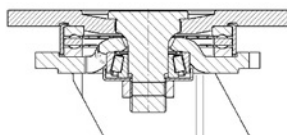
Housing versions



 Description	Housing type	Swivel castor	Swivel castor with directional lock	Swivel castor with total lock	Fixed castor
	Article description	9650	9651	9652	9658
	Material	Welded steel	Welded steel	Welded steel	Welded steel
	Swivel bearing	Sealed swivel bearing with axial ball bearing and tapered roller bearing	Sealed swivel bearing with axial ball bearing and tapered roller bearing	Sealed swivel bearing with axial ball bearing and tapered roller bearing	-
 Swivel interference	Wheel Ø 200 mm	330 mm	330 mm	364 mm	●
	Wheel Ø 250 mm	380 mm	380 mm	380 mm	●
	Wheel Ø 300 mm	452 mm	452 mm	452 mm	●

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Swivel bearing



Sealed swivel bearing with axial ball bearing and tapered roller bearing for best manoeuvrability.

Wheel versions



i		Duratech load	Novatech	Ultratech	Ultratech hydro
Description	Product name	MOP	FTP	FCP	FCP hydro
	Article description	MOP	FTP	FCP	FCP hydro
	Tread material	Polyamide, extra strong	Polyurethane, casted	Polyurethane, casted	Polyurethane, casted
	Tread hardness	Shore D 75	Shore A 92	Shore A 92	Shore A 92
	Wheel body material	Polyamide	Cast iron	Cast iron	Cast iron
	Temperature range	-40 °C / +80 °C	-20 °C / +60 °C	-20 °C / +60 °C	-30 °C / +60 °C
	Width of tread	80 mm	80 mm	80 mm	80 mm
	Antistatic (10 ⁷ OHM)	-	Optional	-	-
	Electric conductive (10 ⁴ OHM)	-	-	-	-
Bearing type	Plain bearing	-	-	-	-
	Roller bearing	-	-	-	-
	Cone ball bearing	-	-	-	-
	Precision ball bearing	●	●	●	●
Load capacity	Wheel Ø 200 mm	2.000 kg 3.000 kg*	1.400 kg	1.400 kg	1.400 kg
	Wheel Ø 250 mm	2.000 kg 3.000 kg*	1.800 kg	1.800 kg	1.800 kg
	Wheel Ø 300 mm	2.000 kg 3.000 kg*	2.000 kg	2.000 kg	2.000 kg

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The mentioned load capacity is only valid for the Kappa load product family. The load capacity of a single wheel without housing could be different.

* In accordance with DIN EN12533 on flat and even floor.



Load capacity

The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements according to EN 12533 at a speed of 6 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.

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



Bearing types



Precision ball bearing for highest performance.

Fitting versions



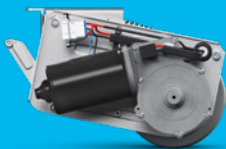
 Description	Fitting type	Swivel plate	Fixed plate
	Article description	P64	P64
	Size of plate	175 x 140 mm	175 x 140 mm
	Plate hole centres	140 x 105 mm	140 x 105 mm
	Plate hole \varnothing	15 mm	15 mm
 Overall height	Wheel \varnothing 200 mm	255 mm	255 mm
	Wheel \varnothing 250 mm	305 mm	305 mm
	Wheel \varnothing 300 mm	355 mm	355 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

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 - 3.000 kg
⌀ 80 - 300 mm

Kappa flex



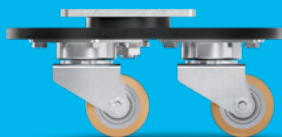
⊃ 360 - 750 kg
⌀ 160 - 200 mm

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

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

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/kappa

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



ER LIFE.

ET



www.tente.com



PRODUCTIVITY



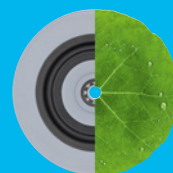
SAFETY



DESIGN



DURABILITY



ENVIRONMENT