PRODUCT INFORMATION
LUMINA

10 - 100 kg   39 - 90 mm   35 - 75 mm

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

Colour matching

The colour of solid material can be adapted to the product design.

Visual integration

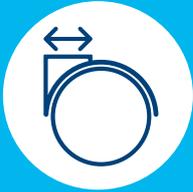Different dome diameters and designs for a perfect transition from the castor to the application.

Variable fitting options

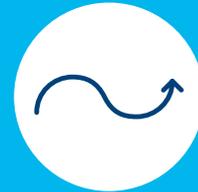Wide range of fittings in various sizes.

HOUSINGS

FEATURES

Visual integration

Different dome diameters and designs for a perfect transition from the castor to the application.

Compliant version

Used for furniture (EN12528) and office chairs (EN12529 and BIFMA).

Optimised manoeuvrability

Twin wheel castor with high manoeuvrability due to differential effect.

Painted surface

Gold, chrome, aluminium or glossy colours.

Ergonomic foot pedal

Easily accessible pedal for manual wheel lock.

Reduced risk of accidents

Automatic load-dependent wheel brake to prevent accidents with office chairs.

Prevents unintended movement

Wheel lock with pedal for manual operation.

Colour matching

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

Robust housing

Twin wheel castor for high stabilty and low height.

HOUSINGS

The Lumina range offers five types of housings to match the needs of your application. The housings are made of premium quality virgin polypropylene or polyamide. 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. All product versions can be customised with colours and a large range of fittings.

Chair and furniture castors with wheel diameter 50 mm

	Housing type	Swivel castor	Swivel castor with intermittent brake	Swivel castor with wheel brake	Swivel castor	Swivel castor with wheel brake
	Article description	AA20	AA23	AA25	A520	A525
	Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
	Swivel bearing	Plain bearing	Plain bearing	Plain bearing	Plain bearing	Plain bearing
	Castor height without fitting	54,5 mm	54,5 mm	54,5 mm	57 mm	57 mm
	Blind hole Ø	8 mm 10 mm	8 mm 10 mm	8 mm 10 mm	8 mm	8 mm
	Castor width	55 mm	55 mm	55 mm	54 mm	54 mm
Swivel interference	Wheel Ø 50 mm	104 mm	104 mm	120 mm	104 mm	120 mm

Swivel castor
Wheel and housing are free to move for an easy manoeuvrability.
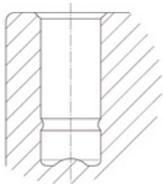
Wheel brake
Wheel brake with pedal for manual operation that prevents unintended movement.

Intermittent brake
Reduced risk with automatic load-dependent wheel brake to prevent accidents. These products match the requirements of EN 12529 for swivel chairs.

Swivel bearing

Plain bearing for plug-in fittings.

Different wheel treads
Noise-reducing soft wheel version is made of thermoplastic rubber. Hard wheel version, with a polyamide tread, also available.

Big colour range
Castors with chrome or gold finish are available as well.

Different domes
Different diameters allow the castor to be integrated into your product design.

Robust cover
Cover made of solid zinc die cast or synthetic materials.

Swivel castor	Swivel castor with intermittent brake	Swivel castor	Swivel castor with intermittent brake
6A20	6A23	A520	A523
Polypropylene with zinc die cast cover	Polypropylene with zinc die cast cover	Polypropylene	Polypropylene
Plain bearing	Plain bearing	Plain bearing	Plain bearing
55,5 mm	55,5 mm	57,5 mm	57,5 mm
8 mm 10 mm	8 mm 10 mm	10 mm	10 mm
55 mm	55 mm	55 mm	55 mm
108 mm	108 mm	102 mm	102 mm

Classic reliable design

These classically designed castors offers a big colour range. Customised colours also possible.

Small furniture castors with wheel diameter 35-42 mm

		Swivel castor	Swivel castor with wheel brake
	Housing type	Swivel castor	Swivel castor with wheel brake
	Article description	5520	A525
	Material	Polyamide	Polypropylene
	Swivel bearing	Plain bearing	Plain bearing
Description	**Castor height without fitting / wheel diameter in mm**	39 mm / Ø 35 44,5 mm / Ø 40 48,5 mm / Ø 42	44,5 mm / Ø 40
	Blind hole Ø	8 mm	8 mm
	Castor width / wheel diameter in mm	38 mm / Ø 35 38 mm / Ø 40 37 mm / Ø 42	- 38 mm / Ø 40 -
Swivel interference	**Wheel Ø 35 mm**	71,5 mm	-
	Wheel Ø 40 mm	72 mm	102 mm
	Wheel Ø 42 mm	85 mm	-

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

Different wheel treads
Noise-reducing soft wheel version is made of thermoplastic rubber. Hard wheel version, with a polyamide tread, also available.

Aluminium painted version
Castors with silver finish are also available.

User friendly brake pedal
Wheel brake with pedal for manual operation that prevents unintended movement.

Furniture castors with wheel diameter 75 mm

		Swivel castor	Swivel castor with wheel brake
Description	**Housing type**	Swivel castor	Swivel castor with wheel brake
	Article description	5520	5525
	Material	Polyamide	Polyamide
	Swivel bearing	Plain bearing	Plain bearing
	Castor height without fitting	90 mm	90 mm
	Blind hole Ø	11 mm	11 mm
	Castor width	65 mm	65 mm
Swivel interference	**Wheel Ø 75 mm**	149 mm	210 mm

WHEELS

FEATURES

Quiet rolling

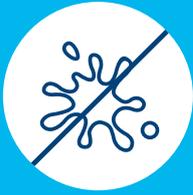Soft wheel versions for a quiet working environment.

Colour matching

Colours can be adapted to match the product design. Please contact us for your desired colour.

Reduced cleaning

Due to its mainly smooth surfaces, the castors are quick and easy to clean.

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.

Chemical-resistant components

Insensitive to many cleaning agents and chemical substances.
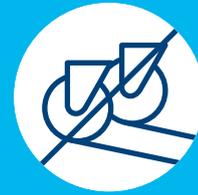
Non-marking movement

Wheels with reduced abrasion and little cleaning requirement.

Non-hazardous materials

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

WHEELS

The characteristics of the wheel depend on the material. These wheels have minimal cleaning requirements and benefit from non-marking movement and non-staining contact with floors during long standing periods. They can be use for all kind of floors, from untreated wood to natural stone or soft carpet.

Basetech
Hard-wearing lightweight polypropylene wheels.

Basetech conductive
Electrical conductive version of our Basetech wheel.

Supratech
Smooth running all-rounder with thermoplastic rubber tread.

Supratech conductive
Electrical conductive version of our Supratech wheel.

Duratech
Stable and indestructible, made of polyamide and thermosetting plastic.

Maxtech
Perfect for functional design, injection-moulded polyurethane.

Technical data and availability

	Product name	Basetech	Basetech conductive	Supratech	Supratech conductive
Description	Article description	POI	YOI	PJI	YGI
	Tread material	Polypropylene	Polypropylene	Thermoplastic rubber	Thermoplastic rubber
	Tread hardness	Shore D 65	Shore D 65	Shore A 87	Shore A 87
	Wheel body material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
	Temperature range	-10 °C / +40 °C	-10 °C / +40 °C	-10 °C / +40 °C	-10 °C / +40 °C
	Electric conductive (10^4 OHM)	-	●	-	●
Bearing type	Plain bearing	●	●	●	●
Load capacity	Wheel Ø 35 mm	-	-	-	-
	Wheel Ø 40 mm	10 kg	-	-	-
	Wheel Ø 42 mm	30 kg	-	-	-
	Wheel Ø 50 mm	40 kg	40 kg	40 kg	40 kg
	Wheel Ø 75 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 Lumina product family.

Bearing types

Plain bearing for short distances.

Duratech	Maxtech
UOI	UAI
Polyamide	Polyurethane
Shore D 75	Shore A 92
Polypropylene	Polyamide
-10 °C / +40 °C	-10 °C / +40 °C
-	-
●	●
20 kg	-
-	-
-	-
-	-
100 kg	100 kg

Load capacity

The load capacity depends on the housing and wheel. It has been tested and fulfills the requirements of EN 12528. Castors with intermittent brake fulfills the requirements of EN 12529. 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.

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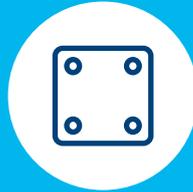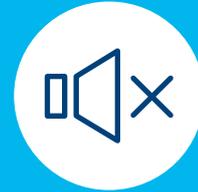
FITTINGS

FEATURES

Fast assembly

Faster assembly thanks to easy plug-in fittings.

Variable fitting options

Wide range of fittings in various sizes.

Quiet rolling

Noise-reduced fittings for a quiet working environment.

Tested quality

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

PLUG-IN PLATE FITTINGS

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

Plate fitting
Secure connections with four screws.

Blind hole
Faster assembly thanks to easy plug-in fittings.

Technical data and availability

	Fitting type	Stem with U-shaped plate	Stem with L-shaped plate	Stem with plate	Stem with plate	Stem with plate	Stem with plate
	Article description	P10-40	P11-40	P41	P41	P41	P40
Description	**Size of plate**	40 x 15 mm 40 x 16 mm 40 x 17 mm 40 x 18 mm 40 x 19 mm 40 x 20 mm 40 x 21 mm 40 x 22 mm 40 x 25 mm	40 x 16 mm 40 x 17 mm 40 x 19 mm 40 x 22 mm 40 x 25 mm	30 x 30 mm	38 x 38 mm	42 x 42 mm	60 x 60 mm
	Plate hole centres	32 mm	32 mm	20 x 20 mm	27 x 27 mm	32 x 32 mm	48/38 x 48/38 mm
	Plate hole Ø	4 mm	4 mm	4,4 mm	5,1 mm	5,1 mm	6,3 mm
	Compatible with blind hole Ø	8 mm	8 mm	8 mm	8 mm 10 mm	8 mm 10 mm 11 mm	10 mm 11 mm
	Additional castor height with this fitting*	+7 mm - +11 mm	+7 mm - +11 mm	+9,5 mm - +11 mm	+8 mm - +12 mm	+8 mm - +12 mm	+8,5 mm - +11 mm

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

EXPANDING FITTINGS FOR TUBES

Adjustable expanders allow for a flexible installation in different tube sizes. These are available for all castors with blind holes with a 10 mm diameter. The expanders and the threaded stems are pre-assembled.

Expanding fitting
Adjustable to different tube diameters. Available for round and square tubes.

Blind hole
Faster assembly thanks to easy plug-in fittings.

Stem with plate

P41

65 x 65 mm

47/42 x 47/42 mm

6,3 mm

10 mm
11 mm

+7 mm - +10 mm

Technical data and availability

	Fitting type	Expander, round	Expander, square
	Article description	R07	R47
	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
Description	Compatible with blind hole Ø	10 mm	10 mm

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PLUG-IN STEM FITTINGS

For all castors with a blind hole fitting, different plug-in stem fittings are available to allow for a fast and efficient assembly.

Stem with grooves
Perfect for the assembly in wood. The stem is made from solid metal.

Stem with circlip
Almost no distance between castor and application. The stem is nearly invisible.

Blind hole
Faster assembly thanks to easy plug-in fittings.

Technical data and availability

	Fitting type	Stem with grooves	Stem with circlip	Stem with circlip	Collar stem
	Article description	R10	B11	B11	B20
	Stem measurements (Ø x Length)	8 x 10 mm 8 x 20 mm 8 x 28 mm	8 x 33 mm	10 x 33 mm	7 x 36 mm
	Compatible with blind hole Ø	8 mm	8 mm	10 mm	8 mm
	Additional castor height with this fitting*	+2,5 mm - +4 mm	+0 mm	+0 mm	+3,5 mm - +5 mm

Left column labels: "Fitting type" / "Article description" / "Stem measurements (Ø x Length)" / "Compatible with blind hole Ø" / "Additional castor height with this fitting" — grouped under "Description".*

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

** Just collar stem B10 in 11 x 20 mm is also available for blind hole Ø 8mm.

Collar stem with circlip
Safe distance between castor and application due to collar. Perfect fitting for chairs. Suitable sockets available.

Collar stem with synthetic circlip
Noise reducing version.

NOISE REDUCING

Collar stem
For use in wood. Suitable sockets available for more stability.

Collar stem with circlip	Collar stem with circlip	Collar stem with circlip	Collar stem with synthetic circlip
B10	B10	B10	B40
10 x 20 mm 11 x 20 mm 11 x 30 mm	11 x 30 mm	9 x 24 mm	11 x 20 mm
8 mm** 10 mm	11 mm	10 mm	10 mm 11 mm
+2 mm - +5,5 mm	+4 mm	+4 mm	+2 mm - +4,5 mm

SOCKETS

Plug-in collar stem fittings can be used with different sockets for easy, stable assembly under different applications.

Socket
Different versions available.

Collar stem with circlip

Blind hole

Technical data and availability

	Socket type	Round socket for tubes or wooden furniture	Round socket for tubes	Square socket for tubes	Round socket for wooden furniture	Round socket made of zinc die cast for wooden furniture
	Article description	R20	R20	R40	H40	R21
	Compatible with product	B20 7 x 36 mm	B10 11 x 30 mm	B10 11 x 30 mm	B10 11 x 30 mm	B11 8 x 33 mm
Description	**Socket Ø / collar Ø**	10 / 18 mm* 12 / 17 mm 13 / 17 mm 14 / 17 mm 16 / 20 mm 18 / 20 mm 20 / 23,5 mm 23 / 25 mm	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	13 / 20 mm
	Socket height	27 mm	36 mm	36 mm	36 mm	26 mm

* Socket R20 in size 10 / 18 mm is without rips and for wooden furniture, all the others for tubes. It has a height of 29 mm.

PLUG-IN THREADED STEM FITTINGS

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

Stem with threads
Solid fitting due to screw in.

Blind hole
Faster assembly thanks to easy plug-in fittings.

Stem without nut
Enhanced overall appearance due to a smaller distance between the castor and the application by removing the nut.

Groove for torx on its head
For easy and fast assembly.

Technical data and availability

	Fitting type	Threaded stem for profiles according DIN 1998	Threaded stem	Threaded stem	Threaded stem	Threaded stem with groove for torx	Threaded stem	Threaded stem
	Article description	S10	S70	S70	S70	S73	S70	S70
	Threaded stem measurements in mm	7 x 25	M6 x 12 M6 x 25 M8 x 10 M8 x 12 M8 x 15 M8 x 25 M8 x 34 M10 x 10 M10 x 15 M10 x 25	M8 x 15 M10 x 10 M10 x 15 M10 x 25 M10 x 35 M10 x 50	M10 x 78	M8 x 12	M8 x 25 M10 x 15 M10 x 25	M10 x 50 M10 x 70 M12 x 25
Description	**Compatible with blind hole Ø**	8 mm	8 mm	10 mm	10 mm	10 mm	11 mm	11 mm
Overall height	**Additional castor height with this fitting***	+7 mm - +8 mm	+ 6 mm - +7 mm	+4 mm - +7 mm	+0 mm	+0 mm	+ 2,5 mm	+ 4,5 mm

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

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	**Alpha**	**Delta**	**Delta twin**
125 mm	70 - 500 kg 80 - 200 mm	300 - 600 kg 125 - 200 mm	600 - 750 kg 125 - 200 mm
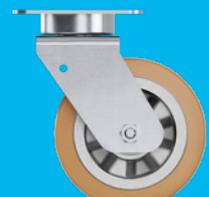
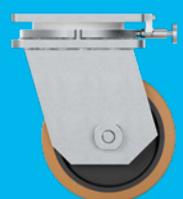| **Zeta**	**Kappa**	**Kappa flex**	**Omikron**
300 - 800 kg 125 - 250 mm	300 - 3.000 kg 80 - 300 mm	360 - 750 kg 160 - 200 mm	900 - 11.000 kg 100 - 500 mm

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
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/locations

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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/lumina
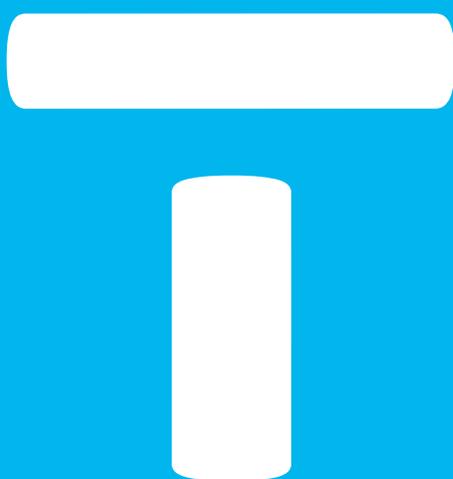
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PRODUCTIVITY   SAFETY   DESIGN   DURABILITY   ENVIRONMENT