

messingschlager

E-Mobility Solutions



ONE SOURCE ONLY

The holistic E-Mobility concept.

BROSE⁵

5 motors, 2 installation sizes. The most forward-thinking and quietest mid-drive motor on the market.

MODULARITY

Numerous possible combinations for specifications. Maximum coverage of target groups.

100% FOCUS

Concentrating on what is most important.

CONTENT

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AN E-BIKE IS MORE THAN JUST THE SUM OF ITS PARTS

Hardly any other product has introduced as much dynamism to the bicycle market as the e-bike has. Once again, the e-bike is the driver of the bicycle industry's growth and innovation. The expectations of the previous season were thus again exceeded. In Germany alone, 980,000 units sold in 2018 increased the estimated volume by 36 %. Medium-term expectations are set 30 %; however, in the long run e-bikes could make up a share of up to 35 % of the complete bicycle market.

Join the profitable and booming game of the e-bike market – do not wait any longer but start now and with us!

Premium E-Mobility Solutions at Messingschlager is a holistic concept with numerous possible variations and combinations – a concept of components that are perfectly in tune with one another. This system combines two frame & battery concepts with four frame designs each.

E-bikes with an inspiring design and a new understanding of the term 'premium' – clearly defined through its true holistic nature – that stand out from the market. At Messingschlager, we believe that only an integrated all-in approach can keep the promise

of delivering premium goods. Such an approach is clearly reflected in our strategic premium E-Mobility Solutions strategy.

Do you want to be part of the successful e-bike market? The speed at which you enter the market is a central key for success. However, developing competitive products involves great effort, many snares and obstacles, let alone high costs. Hence, our approach guarantees maximum efficiency with the lowest possible effort. Our concept provides a very fast and straightforward market

entry – "the time to market" is a short six months.

Our approach guarantees highest standards when it comes to testing, homologation, compliance with statutory requirements, electromagnetic compatibility and standards such as DIN and EN as well as machinery directives. OEMs can create their own first-class e-bike portfolio requiring very little effort and at the same time supply their customers – and themselves – with safety and fun.

Your Team Messingschlager





BUILD YOUR OWN E-BIKE

EVERYTHING FROM A SINGLE SOURCE



FIVE FRAME OPTIONS

+



BROSE-DRIVE

+



INTEGRATED BATTERY

+



BROSE DISPLAYS

ONE SOURCE ONLY

The holistic E-Mobility concept.

With Messingschlager's premium E-Mobility Solutions you will receive everything from one single source. We will quickly provide you with very competitive products – guaranteeing success in the booming e-bike market. And with our concept, you can simply delete the following complex development steps from your "to-do-list":

- Market analysis
- Research & development
- Sourcing
- Testing & homologation

BROSE⁵

5 motors, 2 installation sizes. The most forward-thinking and quietest mid-drive motor on the market.

Brose's e-bike drive operates almost noiselessly and free of vibration. High-resolution sensors and intelligent drive control provide for a harmonious and at the same time powerful pedal assistance.

- Five motors and two installation sizes – a compact design that saves space
- Reliable: As a mechatronics specialist, Brose stands for the very highest quality standards in the automotive sector
- High performance: The maximum torque is at a high 90 Nm
- Straightforward: An easy way to implement an alternative drive system

BUILD YOUR OWN E-BIKE

Our frame- and battery concepts combined with different frame designs.

Our universal designs allow us to deliver the perfect frame for almost any application.

- Frame version 1: Frame with fully integrated Linkage link battery
- Frame variant 2: Full suspension frame with Brose Octagon battery
- Two battery types: Linkage battery, Brose Octagon battery
- Five frame types: MTB, Full Suspension, City Wave, Trekking Women and Trekking Men



**Product Range Expansion or
How to Enter the Booming E-Bike Market**

Two possible ways

IN-HOUSE DEVELOPMENT

STEP 1

Market analysis

STEP 2

Research & Development

STEP 3

Sourcing

STEP 4

Testing

STEP 5

Homologation

Time to market:
At best 18 months



Investment



Manpower



E-Mobility Solutions

Manufacturer + Messingschlager
OEM-Service-Team



CHECKLISTE

1	BATTERY	<input type="checkbox"/>		<input type="checkbox"/>	
2	FRAME	<input type="checkbox"/>		<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	
		<input type="checkbox"/>			
3	MOTOR	<input type="checkbox"/>		<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	
4	PARTS	<input type="checkbox"/>		<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	

Time to market:
At best 6 months



Investment



Manpower

Brose Drive Systems – Natural Bike Pleasure in a Nutshell:

Advantages of the Mid-Drive Motor

The mid-drive motor is situated directly at the bottom bracket and the force is transferred there directly to the chain. The constructional design of e-bikes with mid-drive motors causes a low center of gravity, so all models feature well balanced, stable and at the same time maneuverable qualities. Furthermore, mid-drive motors allow disassembly of front wheels and rear wheels in case of a puncture just as easy as it would be with conventional bicycles. A great advantage, not only for transporting your bike.

Natural Bike Pleasure – Quietest Motor

Brose's motor – driven by carbon belts and fully decoupled by a freewheel – is a true "Made in Germany" product that is manufactured in Brose's own motor factory in Berlin. Without assistance it runs just like an ordinary bicycle. Beyond that it works virtually noiseless. Thus riding, immediately feels all natural and somehow like cycling with a tail wind. The particularly harmonic and smooth assistance is guaranteed by the constant evaluation of data from the sensors measuring torque, cadence and speed.

Small and Lightweight Design

The compact design of Brose's mid-drive motor integrates perfectly into the frame – be it technically or optically – which preserves the tried and tested frame geometry and usual rideability of conventional bicycles. Integrating the system into the bicycle makes for a significant weight advantage as well as a reinforcing stiffing effect. Thanks to a very space-saving design, Brose's motor paves the way for e-bike designs of the next generation – and consequently five highly modern frame designs from our side.

Powerful and Reliable

Brose's drive system is based on a steering engine for passenger cars that has been produced over a million times in line with the highest quality standards of the automotive sector. Over the last few years, Brose further developed and consistently perfected this extremely reliable motor for the use with high quality e-bikes. Thanks to best power-to-weight ratio, this motor ensures powerful support and assistance. Its maximum torque is at a high 90 Nm. At most, the drive can contribute up to 180 % of the pedaling power brought in.





Drive C

The Drive C is the perfect companion for the city. It provides just the right amount of additional power to flow in the hectic city traffic. This drive, designed for comfort and range, makes it much easier to get to work or to the next meeting.

Drive T

The Drive for Trekking

The Drive T is a real "long-distance runner". Be it extensive tours or a short cruise through town – the Drive T is the perfect all-rounder. This highly efficient drive is ideal for daily e-bike needs and long ranges.

Drive TF

The Version for S-Pedelecs

The Drive TF was developed for e-bikers that rely on speed. It is based on the Drive T motor and assists cyclists up to a speed of 45 kilometers per hour. Especially long-distance commuters get their money's worth with this drive system.

Please note:

Statutory requirements must comply when operating an s-pedelec. Please contact us, we will be happy to advise you!

Drive S

The Sporty One

The Drive S is the "athlete" of the family. With higher cadences, our high-performance drive features 15 % more torque than the Drive T and an even more sensitive response behavior. This makes the Drive S particularly suitable for sporty tours and for e-mountain bikers who ride on demanding trails.

Drive S Mag (vertical)

500 grams lighter, 15 % smaller and still as strong as the Drive S. With these and many other features the Brose Drive S Mag scores. Developed for maximum performance, with low weight and small design, this engine with magnesium housing is the Primus in its class.





DISPLAY

The e-bike can be switched on and off with the control unit. With the help of both keys and joystick, one can activate and control the motor assistance or switch on the lights. The display of the control unit shows the current travel speed, assistance level, light function and charge level of the battery. Furthermore, the ergonomically perfect display indicates the total kilometers and the maximum speed of the total distance.

- Display for assistance level and charge level
- Colored display (Brose Allround-Display, Brose Central-Display)
- Ergonomic operation
- Weather resistance (IP protection class 65)
- Choice between controller, side display and center display



LINKAGE BATTERY

The linkage battery is a patented link battery that is suitable for the use with Brose's Drive T, Drive S and Drive TF motors. The battery management system was specially tailored to Brose's motor and enables a motor setup that is individually harmonized and specific for the e-bike type in question.

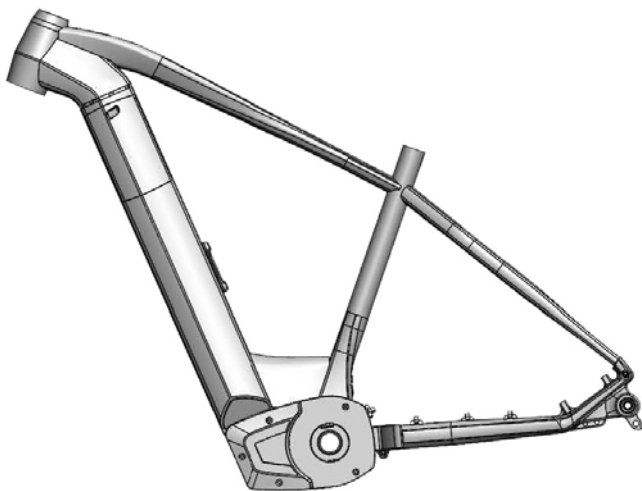
- Fully integrated and revolutionary Linkage link battery
- Patented concept that allows for specially solid frame constructions
- Extra clean and unobtrusive designs are possible
- Energy content: approx. 504 Wh, voltage: 36 V, capacity: 14 Ah
- With RoPD® (Rosenberger Power Data Connector)
- Cutting-edge lithium-ion technology with extremely high energy density



OCTAGON BATTERY

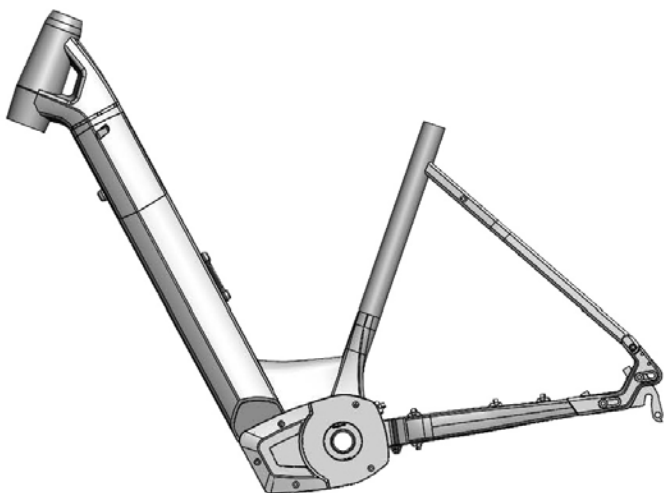
The Octagon battery is the first battery developed by Brose. This was specially developed for the Mag engines. It is inserted from below into the down tube and, thanks to a patented holding mechanism, is securely fastened even in the event of strong vibrations. Nevertheless, it can be very easily clicked out of the frame and clicked in again.

- Integrated down tube battery
- Almost completely invisible optics
- Only 3.8 kg
- Stable aluminum housing
- Energy content: 630 Wh, voltage: 36 V, capacity: 17 Ah

**Frame Type MTB**

The MTB frame together with the linkage battery is characterized by extremely high rigidity. At first sight, one would never think of bicycle to be an e-bike, considering the consistently integrated components and their perfect application. The geometry – designed for sportive performance – allows pure trail riding fun. The focus during development was on perfect road performance. Therefore, we have chosen a geometry focused on the cyclist, which means battery and motor are placed at the best possible center of gravity. Furthermore, the full integration ensures safety: The battery is perfectly protected.

- MTB - 27.5"+
- For use of forks with 120 mm travel (mounting height: 531 mm)
- Boost standard
- Installation dimension rear axle: 148 x 12 (Shimano)
- Fixing points for mudguard and rear carrier
- Integrated stand boss (KSA18 standard, 18 mm hole spacing)
- Tire clearance: 27.5 x 2.8 - 650B (90-584)

**Frame Type City-Wave**

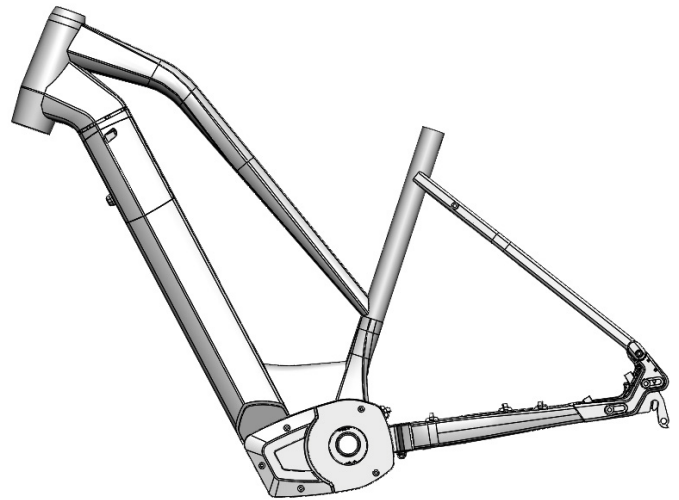
The Wave frame combines comfort and safe road characteristics. The linkage battery is obtrusively integrated into the frame and can be removed from the side conveniently. The battery's full integration emphasizes the high quality and sporty urban design of the Wave frame type and provides – as it does with all other frame types as well – for the normal bicycle look. The large-volume aluminum construction of the frame generates very high stiffness values in connection with the link battery. Since the frame can be used for derailleur or hub gears, there is the greatest possible diversity of variants here.

- For use of forks with 65 mm travel (mounting height: 460 mm)
- Multifunctional, exchangeable and moveable drop-outs
- For derailleur systems or gear hubs
- Prepared for use of gear belts (Hub gears with 46 t – 22 t require 122 t belts)
- Fixing points for wider frame locks with spacing of 90 mm
- Integrated stand boss (KSA18 standard, 18 mm hole spacing)
- Tire clearance: 28 x 2.35 (60-622) or 27.5 x 2.8 (80-584)

Frame Type Trekking W

The trekking frame for women scores with its dynamic design and the wide range of possible applications. The complete integration of the linkage battery and the sporty lines are an eye-catcher. The striking top tube, whose swing underlines the whole dynamics of the wheel, is particularly successful. The large-volume head tube ensures particularly high road stability and sets new standards for load changes. The almost infinite combination possibilities in the specifications make the Mixte frame a very versatile touring bicycle of the extra class.

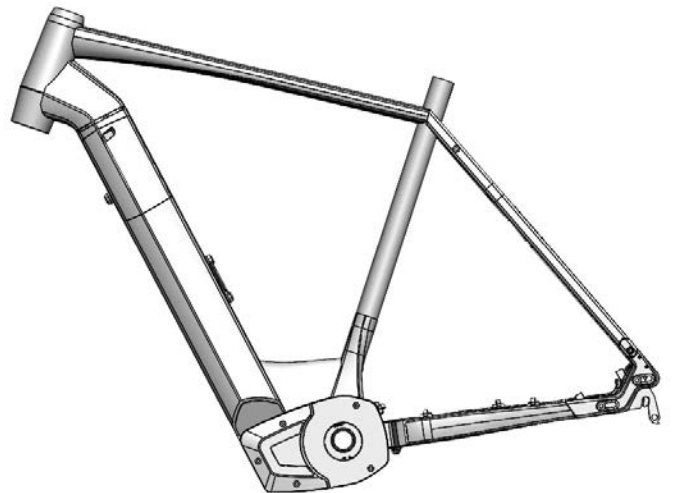
- For use of forks with 65 mm travel
(mounting height: 460 mm)
- Multifunctional, exchangeable and moveable drop-outs
- For derailleur systems or gear hubs
- Prepared for use of gear belts
(Hub gears with 46 t – 22 t require 122 t belts)
- Fixing points for wider frame locks with spacing of 90 mm
- Integrated stand boss
(KSA18 standard, 18 mm hole spacing)
- Tire clearance: 28 x 2.35 (60-622) or 27.5 x 2.8 (70-584)



Frame Type Trekking M

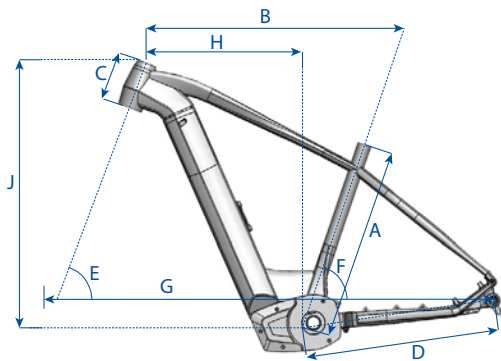
The well thought-out frame construction gives the trekking frame for men its outstanding running smoothness and the high feeling of safety, which is particularly appreciated on long tours and downhill runs. A total of four frame sizes ensure broad user coverage. The simple integration of the motor and the battery as well as the internal cable routing are the result of a holistic development approach that has also been consistently implemented in this everyday and touring bicycle for touring demands.

- For use of forks with 65 mm travel
(mounting height: 460 mm)
- Multifunctional, exchangeable and moveable drop-outs
- For derailleur systems or gear hubs
- Prepared for use of gear belts
(Hub gears with 46 t – 22 t require 122 t belts)
- Fixing points for wider frame locks with spacing of 90 mm
- Integrated stand boss
(KSA18 standard, 18 mm hole spacing)
- Tire clearance: 28 x 2.35 (60-622) or 27.5 x 2.8 (70-584)





Parts and accessories show exemplified equipment.



The special construction allows the use of wide tires with a short rear triangle.



A stand boss is integrated for touring cyclists.



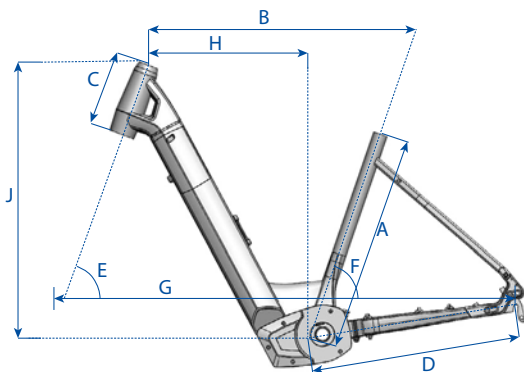
The battery can be removed from the frame in just a few simple steps.

	MTB (27.5"+)	16" (42 cm)	18" (46 cm)	20" (50 cm)
A	Seat Tube Length	420	460	500
	Top Tube Length	552	566	583
B	Top Tube horizontal	594	615	639
C	Head Tube	110	120	130
D	Chain Stays	453	453	453
E	Head Tube Angle	69°	69°	69°
F	Seat Tube Angle	73°	73°	73°
G	Wheelsbase	1126	1148	1173
H	Reach	400	418	439
J	Stack	636	646	655
	BB-Offset	56	56	56
	Fork Length	531	531	531

LINKAGE BATTERY MODEL CITY-WAVE



Parts and accessories show exemplified equipment.



	CITY-WAVE (28")	45 cm	50 cm	55 cm
A	Seat Tube Length	450	500	550
	Top Tube Length	-	-	-
B	Top Tube horizontal	616	616	630
C	Head Tube	180	180	180
D	Chain Stays	470	470	470
E	Head Tube Angle	69°	69°	69°
F	Seat Tube Angle	73°	73°	73°
G	Wheelbase	1154	1154	1169
H	Reach	418	418	433
J	Stack	647	647	647
	BB-Offset	67	67	67
	Fork Length	460	460	460



The cables are laid inside the down tube for clear and clean optics.



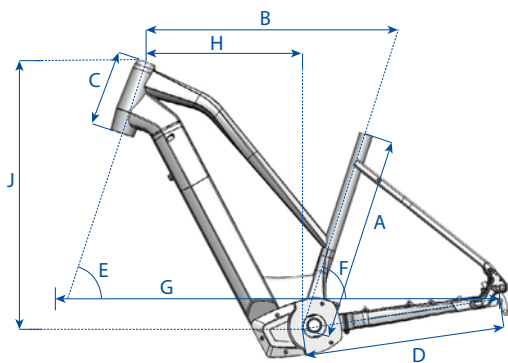
An external supply allows for fast charging without battery removal.



Movable drop-outs tighten the chain perfectly.



Parts and accessories show exemplified equipment.



The rear cable outlet complements the clean look.



A timeless design combined with cutting-edge technology.



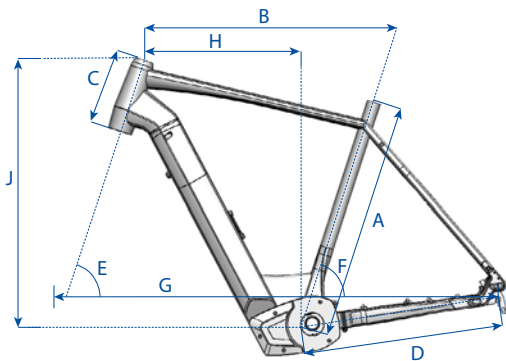
The special profile of the top tube supports an additional rigidity.

	TREKKING W (28")	45 cm	50 cm	55 cm
A	Seat Tube Length	450	500	550
	Top Tube Length	580	580	585
B	Top Tube horizontal	610	612	613
C	Head Tube	170	175	180
D	Chain Stays	470	470	470
E	Head Tube Angle	71°	71°	71°
F	Seat Tube Angle	72°	74°	74°
G	Wheelsbase	1136	1138	1140
H	Reach	425	425	425
J	Stack	647	651	656
	BB-Offset	65	65	65
	Fork Length	460	460	460

LINKAGE BATTERY MODEL TREKKING M



Parts and accessories show exemplified equipment.



	TREKKING M (28")	45 cm	50 cm	55 cm	60 cm
A	Seat Tube Length	450	500	550	600
	Top Tube Length	565	562	564	583
B	Top Tube horizontal	612	612	613	629
C	Head Tube	175	175	180	200
D	Chain Stays	470	470	470	470
E	Head Tube Angle	71°	71°	71°	71°
F	Seat Tube Angle	72°	74°	74°	74°
G	Wheelbase	1138	1138	1140	1156
H	Reach	425	425	425	435
J	Stack	651	651	656	675
	BB-Offset	65	65	65	65
	Fork Length	460	460	460	460



Solid motor housing for optimum protection of the engine.



Clear lines for a timeless design.



The rear triangle allows mounting of a belt drive.

FRAME

- Frame with raw finish
- For Brose motors with design of Generation 1 (Drive T, Drive S, Drive TF)
- For fully integrated Linkage batteries
- External charging connection (battery can be charged also when still mounted)
- Including all mounting parts and lock
- "Disc only" – for use of disc brakes only, PM 160 mm
- For semi-integrated head set, tapered 1 1/8" to 1.5" (ZS 44, 28.6/ZS56/40)
- For seat stays with 31.6 mm
- Internal cables, also for lowerable seat posts with inside cables
- All city bicycle frames and trekking bicycle frames have one identical rear triangle.
- All frames with at least one position for bottle cage

City-Wave, Trekking M & W

- For use of forks with 65 mm travel (mounting height: 460 mm)
- Multifunctional, exchangeable and moveable drop-outs
- For derailleur systems or gear hubs
- Prepared for use of gear belts
- Details of belt drive: (with Shimano hub: 46 T - 22 T, belt length 122 T)
- Fixing points for wider frame locks with spacing of 90 mm
- Integrated stand boss (KSA18 standard, 18 mm hole spacing)
- Tire clearance: 28 x 2.35 (60-622) or 27.5 x 2.8 (70-584)

City-Wave

613600 45 cm

613601 50 cm

613602 55 cm

Trekking W

613603 45 cm

613604 50 cm

613605 55 cm

Trekking M

613660 45 cm

613606 50 cm

613607 55 cm

613608 60 cm



Mountainbike

- For use of forks with 120 mm travel (mounting height: 531 mm)
- Boost standard
- Installation dimension rear axle: 148 x 12 (Shimano)
- Fixing points for mudguard and rear carrier
- Integrated stand boss (KSA18 standard, 18 mm hole spacing)
- Tire clearance: 27.5 x 2.8, 650B (70 x 584)



613620 42 cm (16")

613621 46 cm (18")

613622 50 cm (20")

MOVABLE DROP-OUTS

- 613609**
- Exchangeable, movable aluminum drop-out for frames of city bicycles and trekking bicycles with Linkage battery
 - Drive side, with hanger for derailleurs



- 613610**
- Exchangeable, movable aluminum drop-out for frames of city bicycles and trekking bicycles with Linkage battery
 - Drive side for gear hub



- 613614**
- Exchangeable, movable aluminum drop-out for frames of city bicycles and trekking bicycles with Linkage battery
 - Non-drive side, with brake adapter, PM 160



BATTERY

- 613200**
- Patented Linkage battery,
 - Capacity: 504 Wh, (10S4P, 18650 cells, 3.5 Ah)
 - 36 V, 14 Ah
 - Battery management system specially tailored to Brose
 - With RoPD® (Rosenberger Power Data Connector)
 - Suitable for use with the following motors: Brose Drive T, Drive S and Drive TF
 - Length: 479 mm, weight: 3.0 kg



- 613093**
- Cable harness "motor battery"
 - Specifically for the use with frames with Linkage battery and Brose motor, including RoPD® charge port with external wake-up line



BATTERY CHARGER

- 613230**
- Travel charger, 2 A , RoPD® (Rosenberger Power Data Connector), 220 V
 - Weight: 0.72 kg
 - Dimensions: W 220 x H 140 x D 55 mm
 - Charge time: 7 hrs



- 613231**
- Fast charger, 4 A RoPD® (Rosenberger Power Data Connector), 220 V
 - Weight: 0.95 kg
 - Dimensions: W 225 x H 140 x D 60 mm
 - Charge time: 3.5 hrs



COMING SOON: MTB-FULLY WITH 630 WH OCTAGON BATTERY

- With Brose S Mag engine
- Aluminum frame
- 29"+ 27.5"
- 140 mm travel
- four-link rear
- Boost Standard
- Suitable for trail / all-mountain
- Bottle holder assembly possible
- Mounting of luggage carrier and mudguards possible (SUV concept)
- Expected availability: Spring 2020

BROSE ALU-MOTORS (MADE IN GERMANY)

- Weight: 3,400 g
- 36 V system
- 250 W continuous nominal output
- 90 Nm torque
- Tightness as defined in IP protection class 56
- Gear ratio: 1:27
- Light Output 6V

613015 Drive C

- Target Group: City, Trekking, 25 km/h
- Software optimized for efficiency and comfort
- Maximum support: 280 %
- 50 Nm of torque
- Pushing aid up to 6 km/h

613011 Drive T

- Target group: Trekking bikes, MTBs for moderate tours, 25 km/h
- Software optimized for efficiency
- Performance level 86 %
- Maximum assistance 320 %
- Pushing aid up to 6 km/h

613012 Drive TF

- Target group: Speed pedelecs, 45 km/h
- Software optimized for use on s-pedelecs
- Performance level 85 %
- Maximum assistance 380 %
- Pushing aid up to 18 km/h
- Please note: Speed pedelecs have to be operated with a special license that requires special consideration of numerous points!

613010 Drive S

- Target group: E-MTBs, 25 km/h
- Software optimized for sportive performance
- Performance level 100 %
- Maximum assistance 380 %
- Pushing aid up to 6 km/h



BROSE MAGNESIUM-MOTORS (MADE IN GERMANY)

613017 Drive SMag

- Weight: 2,900 g
- Target group: E-MTB, 25 km / h
- Magnesium housing
- Maximum support: 410 %



CONSAX MOTOR COVER (MADE IN GERMANY)

- Made of strong quality plastic
- Accurate fit
- Size and position of Brose's logo depend on position of motor
- Customizable by additional and indented stickers or labels
- Colour RAL 9005 black (individual colours for orders of at least 500 pieces)
- Including screws for mounting at Brose motor interface
- suitable for art. 613010,1,2,5

613400 Design cover right-hand side (including screws)



613401 Design cover left-hand side (including screws)



613402 Brose logo button, black (individual colours for orders of at least 250 pieces), with 3M adhesive foil



DISPLAY

613054 Comfort-Display

- Marquardt Comfort
- Display for assistance level and charge level
- Auto lights
- Integrated dot matrix display
- Excellent readability in sunlight
- Adaptive display lighting
- Display for system status
- Joystick control
- Ergonomic operation
- Tightness as defined in IP protection class 65
- FEATURES
- On/Off
- Light
- Assistance level
- Charge level
- Speed
- Error display
- Software updates by USB
- Auto lights



613056 Brose Allround-Display

- Display of assistance levels and state of charge
- TFT display
- Automatic driving light
- Bluetooth



613058 Brose Remote-Controller

- Display of assistance levels and state of charge
- LED display
- Automatic driving light
- Optional Central Display connectivity



613060 Brose Central-Display

- Display for center mounting in front of the stem
- Is operated via remote
- 85 x 60 x 30 mm



613055 • Display unit cable (connecting display with motor)



GEARSENSOR

- 613085**
 - Recommended for use of gear hub combined with Brose's mid-drive motors.
 - Upon gear change, a signal is triggered that reduces the motor's torque for a short while and thus enables an effortless and smooth gear change.



BROSE ACCESSORIES & ASSEMBLY PARTS

For each motor, all five articles are required:

- 613092** Speed sensor
- 613091** Spoke magnet
- 613096** Nuts for motor assembly (set of 3 pieces), M6
- 613097** Large ring nut for Spyder assembly
- 352639** ISIS crank set screw (2 pieces are required)



LIGHT CABLE FOR BROSE SYSTEM

- 613089** Length at front: 1095 mm
- 613090** Length at front: 1226 mm
- 613088** Length at back: 894 mm
- 613087** Length at back: 1323 mm



FILLER PLUGS FOR ELECTRICAL CONNECTIONS

- 613099**
 - Filler plugs for light outlets
 - Can be used for sealing if lights are not installed
- 613086**
 - Filler plugs for e-bike connection (brake interruption for speed pedelecs or gear sensors)
 - Can be used for sealing if plug-in location is not occupied.



RIGID FORK (OPTIONAL FOR CITY BIKES / TREKKING BIKES, KIT 1 & KIT 2)

- 393250**
 - Aluminum, tapered head tube, 1 1/8" to 1.5", as an alternative for suspension forks with 65 mm travel
 - Disc only design, PM 180
 - Eyelets for mudguards
 - Head set rest 56 mm
 - For quick release, 100 mm
 - Tire clearance: 28 x 2.35 (60-622)
 - For mounting height 460 mm (instead of suspension fork with 65 mm travel)



SERVICE

Our Commitment:

A product is only as good as its service support. So our commitment is fully directed towards sustainable customer satisfaction. Swift response and qualified contacts – that is what characterizes our e-mobility service center.

For both, OEM customers as well as specialized stores, Messingschlager offers comprehensive service and support. In addition, we have a service & testing center that you can reach via

our free hotline. We stock all necessary replacement parts, so it takes just a few working days until you receive the items you require. In relevant countries, we will set up so-called service satellites to be able to react even faster when it comes to sending out replacement parts and – above all – batteries.

This helps us guarantee training courses for international dealers.

Always Well Informed:

In addition, we regularly offer training courses for manufacturers as well as specialized store crew to share our expertise in the system. This enables fast troubleshooting and solving of problems. We stock all tools essential for servicing to be able to react in real time if service is required.



SERVICE OEM

- Documentation of work steps for an effective and time-saving assembly
- Training courses on assembly/cable routing and connection of system
- Training courses on assembly for end-of-line test and installation of suitable and customer-specific firmware
- OEM hotline at our e-mobility service center
- Stocking of all crucial original spare parts and delivery within 48 hours
- General training courses on the system and all necessary diagnostic solutions for all components (motor, display, battery)
- Swift response to queries within 48 hours
- Supply with all tools that are essential for OEMs
- OEM Tool



SERVICE FOR SPECIALIZED STORES

- Regular training courses on all relevant topics (service, firmware, maintenance, complaints & claims)
- Training courses on standard diagnostic processes of the systems used
- Training courses on exchanging the motor's belts
- Fast supply with all necessary replacement parts
- Fast collection and return of items when service is required but problems cannot be solved on-site
- Supply with all tools that are essential for a specialized store
- Dealer service tool

CONTACT

Please note the following for an even faster and more comfortable service when submitting a complaint regarding our e-bike systems:

If you have any questions, complaints or claims about our premium e-bike solutions, please consult our e-mobility service center via:

E-Mail: e-mobility@messingschlager.com

Hotline: +49 9544 / 9444 – 8338

Our e-mobility service is free of charge and available **Monday till Friday from 8 am to 4 pm.**

For further information concerning our offers and services, please visit our website: **www.messingschlager.com/en/ebike**

In addition to the e-mobility solution you will find more special e-mobility articles in our program



ART.-NO. UVP	DESCRIPTION	
<p>466180</p> <p>100/5</p> <p>149,00 €</p>	<p>HEAD LAMP ›V521s‹</p> <ul style="list-style-type: none"> • 205 lumen • supply voltage: 5 -21 V • lens type: Terraflux 2 • Power LED • 6061 aluminium, matt black anodised • German StVZO-approved for E-Bikes up to 25 km/h • soft start, thus compatible with Brose, Alber, Bosch etc. • optimised for permanent daytime running light • no tail light cable, switch free • cable length to the accumulator: 1,080 mm • L x W x H: 49 x 41 x 41 mm • 75 g • 5 years warranty • OEM <p>without bracket</p>	  <p style="text-align: right;">SUPERNOVA </p>
<p>466182</p> <p>500</p> <p>14,90 €</p>	<p>BRACKET ›MULTIMOUNT HSOP‹</p> <ul style="list-style-type: none"> • compact support arm, ideal for art. 466180, 466185, E3 PURE 3, ... • stainless steel screws • anodised aluminium, matt black • also suitable for Suntour fork with rear thread • OEM 	
<p>466184</p> <p>500</p> <p>5,90 €</p>	<p>FRONT REFLECTOR</p> <ul style="list-style-type: none"> • reflector suitable for all E3 headlamps with Multimount, Multimount HS and HSOP according to StVZO requirements • mounting on Supernova brackets art. 466182, on the sleeve of the fastening screw • OEM 	 
<p>466181</p> <p>100</p> <p>44,90 €</p>	<p>REAR LIGHT ›E3 TAIL LIGHT 2‹</p> <ul style="list-style-type: none"> • for rear carrier mounting • parking light: 5 min • 6 V / 0.30 W • illuminant: 5 mm custom made LEDs • 6061 aluminium, anodised, black polished • German StVZO-approved for E-Bikes up to 25 km/h • 12 g • 50 mm fixing holes • is supplied with parking light power by the E3 front headlamp • cable length to the front headlamp / accumulator: 950 mm • L x W x H: 37 x 11.5 x 30.6 mm • OEM 	  <p style="text-align: right;">SUPERNOVA </p>
<p>466183</p> <p>500</p> <p>5,90 €</p>	<p>ALUMINIUM MOUNTING PLATE</p> <ul style="list-style-type: none"> • 50 mm aluminium mounting plate for mounting a reflector and rear light on the luggage carrier • without reflector • suitable e.g. for reflector art. 466456 • OEM 	 

ART.-NO. UVP	DESCRIPTION		45 KM/H ✓	
466185 50 299,00 €	FRONT LIGHT ›M99 PURE‹ FOR S-PEDELECS <ul style="list-style-type: none"> • 500 lumen • supply Voltage: 6 V DC • illuminant: 3 automotive LEDs • daytime running light: 4.5 W, 32 Power LEDs, with daylight sensor • 6061 aluminium, anodised, black polished • license: L-Class e.g. L1e • German StVZO-approved for E-Bikes up to 45 km/h • cable length: 1,070 mm • L x W x H: 67 x 87 x 57,5 mm • 220 g without bracket • suitable support arm art. 466182 • 5 years warranty • OEM 			
466186 100 132,50 €	LICENCE PLATE BRACKET INCL. TAIL LIGHT ›SUPERNOVA UNIVERSAL LEGAL KIT FOR L1E /S-PEDELECS‹ <ul style="list-style-type: none"> • adjustable fender-mounting license plate holder for all EU countries • includes red reflector with E-Mark • includes M99 tail light with 6 V (DC), 2 m cable without connectors • impermeability: IP67 • ECE License: L-Class e.g. L1e • German StVZO-approved for E-Bikes up to 45 km/h • integrate license plate illumination (5° installation angle variability) • brake light (connection at M99 front light or special brake handle) • 0.6 W continuous output, 1.1 W in brake light mode, 6 V DC • 25 g • L x W x H: 22 x 61,5 x 11,6 mm • OEM 		45 KM/H ✓	
466457 80/20 11,90 €	E-BIKE CARRIER REAR LIGHT <ul style="list-style-type: none"> • with 3 red LEDs • 6 V, DC • for 50 mm hole spacing mounting • only approx. 63 x 20 mm • cable length: 100 cm • incl. mounting parts • on Smart eurohole card <p>Without German mark - sale and use within the scope of StVZO (Germany) not allowed (delivery only to non-German customers).</p>			 SMART
466997 200/20 11,90 €	E-BIKE CARRIER REAR LIGHT ›REFO MINI‹ <ul style="list-style-type: none"> • 6 - 60 V, DC • 1 super bright, red Osram LED • with German approval number • integrated Z-reflector • for 80 mm hole spacing mounting • with lock washers, screws and nuts • OEM 			 SMART 
461651 50 16,90 €	E-BIKE HEAD LAMP ›D&E‹ <ul style="list-style-type: none"> • DC 6 - 48 V • with reflector • 1 white LED • 30 Lux • with German approval number • on Smart eurohole card 			 SMART 

ART.-NO. UVP	DESCRIPTION	The saddles marked with E-Premium are according to ISO 4210 tested for 140 kilograms overload.			
250520 size S 250521 size M 250522 size L 250523 size XL 20 44,90 €	RACING SADDLE ›VELO-FIT ATHLETE BC‹	S		 244 g	
	size S E-Premium	M			
	size M	L			
	size L	XL			
	size XL E-Premium 				
250524 size S 250525 size M 250526 size L 250527 size XL 20 44,90 €	RACING SADDLE ›VELO-FIT ATHLETE FC‹	S		 248 g	
	size S E-Premium	M			
	size M	L			
	size L	XL			
	size XL E-Premium 				
250528 size M 250529 size L 250530 size XL 250531 size XXL 20 44,90 €	TREKKING SADDLE ›VELO-FIT TRAVELLER‹	M		 363 g	
	size M E-Premium	L			
	size L	XL			
	size XL E-Premium	XXL			
	size XXL E-Premium 				
250532 size M 250533 size L 250534 size XL 250535 size XXL 20 44,90 €	CITY / COMFORT SADDLE ›VELO-FIT TOWNIE‹	M		 566 g	
	size M E-Premium	L			
	size L E-Premium	XL			
	size XL E-Premium	XXL			
	size XXL E-Premium 				

COMING SOON:
VELO FIT-E-SERIE



ART.-NO.
UVP


DESCRIPTION

SADDLE ›TOUR E-GRIP‹

Comfortable touring saddle with **handle** at the back for **easy parking** of double leg stands, e.g. **E-bikes**, ...

- „D2“ construction
- „O-Zone Base Cut“
- front and rear **protection**
- usage: E-Bike, sportive, fitness
- on Velo Plush eurohole card

250365
U
20
29,90 €

- L = 287 x W = 190 mm
- only 504 g



Plush
A Philosophy of Comfort

GRIP



250366
U
20
29,90 €

- L = 272 x W = 212 mm
- only 498 g



250068 **SADDLE ›ELASTO GRIP‹**

- with **handle** at the back for **easy parking** of double leg stands, e. g. E-bikes, ...
- with **Elastomer-Shock-Absorbing** and **child protection**
- „Arc-Tech“ **suspension**
- side and rear **protection**
- only 725 g
- L = 258 x W = 217 mm
- on Velo eurohole card

U
10
29,90 €



GRIP



250077 **SADDLE ›E-GRIP‹**

- with **handle** at the back for **easy parking** of double leg stands, e.g. e-bikes, ...
- with clamp for seat post
- L = 260 x W = 200 mm

20
9,90 €



ART.-NO.
UVP

DESCRIPTION

PARALLELOGRAM SEAT POST ›FOURSPRING VARIO‹

50 - 120 KG
UPGRADABLE

- **one-piece aluminium tube**
- **very sensitive response characteristic** through parallelogram movement (no tilting)
- **quick and easy dismantling and assembly of the saddle**
- preload adjustable
- circular travel 20 mm
- length 350 mm
- with scale
- recommended for drivers weight **50 to 90 kg**
- optionally convertible to another rider's weight by replacement springs (art. 252199)

on M-Wave eurohole card



252183	27.2 mm
252196	30.9 mm
252184	31.6 mm

20

OEM

252185	27.2 mm
252194	30.9 mm
252186	31.6 mm

25

69,90 €

Tested by the manufacturer
according to ISO 4210



SUSPENSION SEAT POST

- aluminium
- **2-point fixation** of the saddle rails
- **tolerance adjustable**
- Länge 350 mm
- **50 mm** travel
- preload adjustable
- with scale
- on Zoom eurohole card

252082	Ø 27.2 mm
---------------	-----------

U

252084	Ø 30.9 mm
---------------	-----------

U

252083	Ø 31.6 mm
---------------	-----------

U

25

22,90 €

Tested by the manufacturer
according to ISO 4210



SEAT POST

- **single piece** seat post with **aluminium head**
- with scale (height adjustment)
- easy saddle angle adjustable with 2 bolts
- matt black
- length **400 mm**
- on Zoom eurohole card

252744	Ø 27,2 mm
---------------	-----------

252715	Ø 30,9 mm
---------------	-----------

25



252745	Ø 31,6 mm
---------------	-----------

20

24,90 €

Tested by the manufacturer
according to ISO 4210



ART.-NO. UVP	DESCRIPTION	
<p>ADJUSTABLE SEAT POST ›LEVITATE IN‹</p> <ul style="list-style-type: none"> • clean look through integrated cable routing • aluminium • hydraulic quick release height adjustment while riding by a handlebar lever • with scale • rider's weight up to 100 kg • OEM <p>252210</p> <ul style="list-style-type: none"> • Ø 27.2 mm • length: 370 mm • height adjustment: 0 - 100 mm <p>252211</p> <ul style="list-style-type: none"> • length: 425 mm • height adjustment: 0 - 125 mm <p>252212</p> <ul style="list-style-type: none"> • Ø 30,9 mm • Ø 31,6 mm <p>20</p> <p>129,00 €</p> <p><small>Tested by the manufacturer according to ISO 4210</small></p>	<p>Replacement / tuning spring for converting seat post art. 252183 et seq. to another rider's weight.</p> <p>252187 50 - 90 kg, silver</p> <p>252199 90 - 120 kg, black</p> <p>30</p> <p>4,90 €</p>	



art.. 470410

M-WAVE ACCUMULATOR MINI PUMP

- universal double pump head
- powerful lithium-ion battery
- pumps up autonomously up to the default pressure
- max. air pressure 100 psi / 7 bar
- with ball needle and adapter for air beds
- for all three valve types (AV, DV, FV)

ELUMATIK USB

ART.-NO. UVP	DESCRIPTION		
270070	BICYCLE MIRROR ›SPY SPACE 45‹	ECE APPROVED	
50	<ul style="list-style-type: none"> • ECE approved: for all class L vehicles which do not have a bodywork surrounding the driver, e.g. suitable for E-Bikes, S-Pedelects up to 45 km/h maximum speed, mopeds, motorcycles, quads, ... • 3-dimensionally adjustable • glare-free genuine glass • for mounting on handlebar ends with inner-Ø 14.5 - 16.5 mm and Ø 18 - 19.5 mm • in M-Wave eurohole box 		
19,90 €			

SPOKES

		BUTTED STAINLESS SPOKE		= 3,000, inner packaging 500 in box	
		<ul style="list-style-type: none"> • butted, for increased load of e-bikes • silver • 260 mm 			
	single butted				
		Ø A	Ø B		
285960	OP 344:	2.3	2.0 mm	799,00 € / 1000 pieces	
286860	OP 455:	2.0	1.8 mm	499,00 € / 1000 pieces	

EVERYTHING IN (RE) VIEW

M-WAVE SPY SPACE – BICYCLE MIRROR

- 3-dimensionally adjustable
- antireflective, glare-free and blast-resistant
- for mounting right and left
- especially suitable for e-bikes



ART.-NO. UVP	DESCRIPTION		
12 SPEED			
306102 30 69,90 €	SPECIAL CHAIN FOR E-BIKES WITH DERAILLEUR ›e12EPT‹ <ul style="list-style-type: none"> • maximum durability due to reinforced riveting, higher torsion stability and minimalized tolerances • with „ECO ProTeQ“ for an extremely rust resistant, smooth and environmentally friendly cover • 12 speed • 130 links, XL, extra long for e-bikes • compatible to Shimano / Sram MTB / Campagnolo • with MissingLink • in KMC box 		<p>XL 130 LINKS</p>
11 SPEED			
SPECIAL CHAIN FOR E-BIKES WITH DERAILLEUR <ul style="list-style-type: none"> • high durability through reinforced riveting, higher torsion stability and minimalized tolerances • 1/2" x 11/128" • 122 links, XL, extra long for e-bikes • compatible to Shimano / Sram • with MissingLink • in KMC box 			
306112 52,90 €	›e11EPT‹ <ul style="list-style-type: none"> • with “ECO ProTeQ“ for an extremely rust resistant, smooth and environmentally friendly cover • optimized for 1 (and 2) x 11 		<p>XL 122 LINKS</p>
306110 30 44,90 €	›e11 SILVER‹		
10 SPEED			
306115 30 54,90 €	›E10 EPT‹ <ul style="list-style-type: none"> • with “ECO ProTeQ“ for an extremely rust resistant, smooth and environmentally friendly cover • 136 links • in KMC box 		<p>XXXL 136 LINKS</p>
SPECIAL CHAIN FOR E-BIKES WITH DERAILLEUR <ul style="list-style-type: none"> • high durability through reinforced pins, higher torsion stability and minimalized tolerances • 1/2" x 11/128" • compatible to Shimano / Sram / Campagnolo • extra long for e-Bikes • with MissingLink • in KMC box 			
306114 30 42,90 €	›e10 SILVER‹ 122 links		

ART.-NO. UVP	DESCRIPTION
-----------------	-------------

9 SPEED

SPECIAL CHAIN FOR E-BIKES WITH DERAILLEUR

- 1/2" x 11/128"
- **136 links:** extra long for e-Bikes
- compatible to **Shimano / Sram / Campagnolo**
- **high durability** and **traction** through **reinforced pins** (450 kg)
- with MissingLink



XXXL 136 LINKS

306118
30
54,90 €

- ›e9 EPT‹
- with "ECO ProTeQ" for an **extremely rust resistant, smooth** and **environmentally friendly** cover
 - in KMC box



306117
30
42,90 €

- ›e9 SILVER‹
in KMC box



1 SPEED 1/2 X 3/32"

- ›e1‹
- **Long life**, narrow **gear hub chain**, single speed,...
 - 1/2" x 3/32"
 - **tensile strength 1,000 kg**
 - only **296 g**
 - especially suitable for **high quality gear hubs** like Rohloff
 - **low wear by XX-SP bolt**
 - no falling down due to **higher inner plates**
 - with MissingLink
 - in KMC box



3,500km+

powered by KMC

- ›e1 EPT‹
- with "ECO ProTeQ" for an **extremely rust resistant, smooth** and **environmentally friendly** cover

306122
34,95 €

110 links



306123
30
39,95 €

130 links



306120
30
29,95 €

- ›e1 SILVER‹
- 110 links
 - silver



ART.-NO. UVP	DESCRIPTION
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Z eHX SERIE

- E-Bikes- / internal gear hub- / BMX-chain:
- 1/2" x 3/32"
- 8 mm
- no falling down due to **higher inner plates** („StopDrop“)
- **highest durability through HX-Stretch Proof treatment**
- **mushroomed pins**
- **chamfered inner plates** for smoother running and more allowance of the chain line
- **tensile strength 1,050 kg**
- silver
- with MissingLink
- in KMC Box



XXL 128 LINKS

306134 ›Z1 eHX NARROW EPT‹
60 **128 links:** extra long for e-bikes
24,95 €



306131 ›Z1 eHX NARROW‹
60 112 links
21,90 €



306125 ›E101 EPT‹
30
59,90 €

- 1/2" x 1/8"
- 112 links
- with "ECO ProTeQ" for an **extremely rust resistant, smooth and environmentally friendly** cover
- when using with KMC 1/8" chainring and KMC sprocket (art. 350075-8, 350094-6, 350081) **enormously longlasting running per formance significantly over 10,000 km**
- chainring and chain easily retrofitted at lots of bicycles
- with MissingLink
- in KMC box



10,000km+

powered by



Drive durability of e-bikes with mid-mounted engine

e101 EPT / KMC Ritzel wide

10.000 km +

e1 EPT / KMC Ritzel narrow 3.500 km +

powered by
























Standard

powered by







306127 **Z1 eHX Wide**
60 **E-bikes with hub gears:**
21,90 €







- 1/2" x 1/8"
- silver
- with MissingLink
- in KMC box




ART.-NO. UVP	DESCRIPTION	Workshop 50 running meter	KMC
306113	›e11 EPT‹ incl. 40 MissingLinks 11 NR EPT	  	KMC
306116	›e10 EPT‹ incl. 40 MissingLinks 10 NR EPT	  	
306119	›e9 EPT‹ incl. 40 MissingLinks 9 NR EPT	  	
306124	1/2 x 3/32", Narrow ›e1 EPT‹ incl. 40 MissingLinks e1 NR EPT	  	
306121	›e1‹ incl. 40 MissingLinks CL-573S		
306135	›Z1eHX NARROW EPT‹ incl. 40 MissingLinks, Z1eHX Narrow NR EPT	  	
306132	›Z1 eHX NARROW‹ incl. 40 MissingLinks CL-578		
306126	1/2 x 1/8" ›e101 EPT‹ incl. 40 MissingLinks	  	
306130	1/2 x 1/8", Wide ›Z1eHX WIDE EPT‹ incl. 40 MissingLinks Z1eHX Wide NR EPT	  	

CHAIN FASTENER ELEMENT

302367 1.000/50 Set 5,90 €	›e1NR EPT‹ • for 7.3 mm wide chains • silver • 2 pieces in KMC blister pack	 	KMC
302373 1.000/50 Set 8,90 €	›Z1 eHX NARROW NR EPT‹ • for 7.3 mm wide chains • silver • 2 pieces in KMC blister pack	 	
302372 1.000/40 Set	›Z1 eHX WIDE NR EPT‹ • silver • 2 pieces in KMC blister pack	 	

ART.-NO. UVP	DESCRIPTION
301941 30 39,90 €	<p>BICYCLE CHAIN</p> <ul style="list-style-type: none"> • especially suitable for e-bikes • longer durability due to reinforcements • with connecting link • for Brose, Bosch, Shimano, Bafang, ... drives • silver • in M-Wave single box <p>• for 11 speed</p> <ul style="list-style-type: none"> • 1/2" x 11/128" • 116 links  
301940 30 34,90 €	<p>• for 11 speed</p> <ul style="list-style-type: none"> • 1/2" x 11/128" • 116 links  
301945 30 16,90 €	<p>• for 1 speed</p> <ul style="list-style-type: none"> • also suitable for internal gear hubs • 1/2" x 3/32" • 112 links  





NEW: 10.000 KM +

Available for
 → Bosch-motors
 → Shimano-hubs
 → NuVinci-hubs



Holds. And holds. And holds.

MILEAGE (KM)

e101 EPT / KMC Pinion wide*	10.000 KM +
e1 EPT / KMC Pinion narrow	3.500 KM +
Standard	

The warranty for at least 10,000 kilometers is based on the e101 chain with Eco-Pro-Teq technology. Only in conjunction with the optimized KMC pinions for center motors and hub gears.

LINK TO PERFECTION

WWW.KMCCHAIN.DE

ART.-NO. UVP	DESCRIPTION
<p>313340 black</p> <p>313341 titan grey</p> <p>40 Paar</p> <p>39,90 €</p>	<p>PLATFORM-PEDAL ›FREEDOM SL‹</p> <ul style="list-style-type: none"> • CNC machined aluminum body • CNC machined CrMo-axle • with sealed bearings • mounting also possible with allen key • with interchangeable pins • according to ISO 4210: increased requirements up to 140 kg • only 297 g/pair • tread surface: 96 x 91 mm (L x W) • on M-Wave eurohole card <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <p>Tested by the manufacturer according to ISO 4210</p> </div> <div style="width: 60%;"> </div> </div>

BOTTLE CAGE

In the case of a mid-engine and / or a battery on the frame, the e-bike often no longer has room for a drinking bottle on the down tube. This problem is solved with our pictured bottle cages, since you can insert the bottle here laterally or at an angle.

	BOTTLE CAGE
<p>340051</p>	<p>›BC 29 Side‹</p> <ul style="list-style-type: none"> • particularly suitable for e-bike frame geometries with limited space • outwardly chamfered edges makes it easier to put the bottle in • with mounting screws • on M-Wave eurohole card <ul style="list-style-type: none"> • bottle can be easily put in and taken away, also from the side • only 29 g <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> </div> <div style="width: 60%;"> </div> </div>
<p>340053</p> <p>100</p> <p>4,90 €</p>	<p>›BC 26 Side‹</p> <ul style="list-style-type: none"> • bottle can be easily put in and taken away, also diagonal from the side • only 26 g <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> </div> <div style="width: 60%;"> </div> </div>

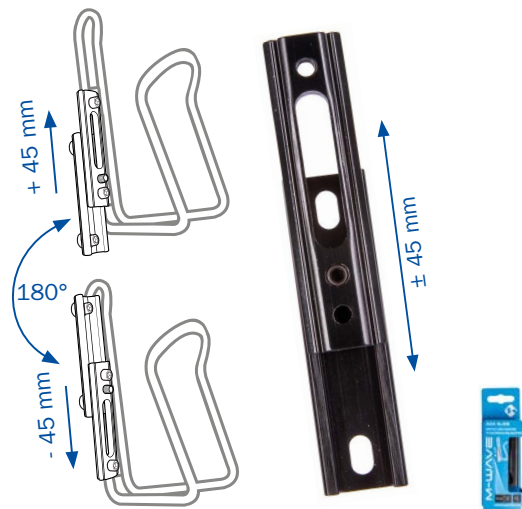
ART.-NO. UVP	DESCRIPTION
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With a mid-engine and / or a battery on the frame, the e-bike often no longer has room for a drinking bottle on the down tube. This issue is resolved with our pictured bottle cage adapter. The bottle cages can thus be brought into a suitable position.

340013 BOTTLE CAGE ADAPTER ›ADA SLIDE‹

100
9,90 €

- for optimal mounting of a bottle cage at most **different frame geometries** or for e-bikes with little space for bottle cage mounting
- **90 mm (+/- 45 mm) height adjustment range**
- made of aluminium
- incl. fixing material
- in M-Wave eurohole box



340041 BOTTLE CAGE ADAPTER ›ADA BC FLEX 2‹

20 Set
9,90 €

- for universal mounting of a bottle cage at different places, at **most different frame geometries** or for e-bikes with little space for bottle cage mounting
- fast and flexible **mounting possibilities** by non-slip hook and loop fasteners (item 340042)
- 1 set = 2 pairs
- on M-Wave eurohole card



340042 UNIVERSAL MOUNTING TAPE

3.000
0,99 €

- hook and loop fastener
- with silicone non-slip strips
- length: 25 cm, width: 2 cm
- OEM



ART.-NO.
UVP

DESCRIPTION

CHAINRING

- CrMo
- black

BOSCH ✓

SHIMANO ✓

NUVINCI ✓



teeth	Bosch e-bike engines Generation 2			Shimano hubs			NuVinci hubs	
	1/2 x 1/8"	1/2 x 11/128"		1/2 x 1/8"	1/2 x 3/32"		1/2 x 1/8"	1/2 x 3/32"
	AM	AM	OEM	AM	AM	OEM	AM	OEM
15		350079	350070					
17					350087	350090		
18	350075	350083	350071	350094	350088	350091		
19	350076	350084	350072	350095	350089	350092		
20	350077	350085	350073	350096	350097	350093	350081	350080
21	350078	350086	350074					
	25	25	100	25	25	100	25	100
UVP	12,90 €	12,90 €	12,90 €	12,90 €	12,90 €	12,90 €	12,90 €	12,90 €

CHAINRING

- steel galvanized
- black
- 1/2 x 3/32"
- for Bosch e-Bike engines generation 2 (Active Line, Performance and CX) (no original Bosch spare part)

MADE IN GERMANY

BOSCH ✓

352674
U
200

14 teeth

352676
U
50

16 theet

352677
U
50

17 theet

5,90 €



art. 352674



art. 352676



art. 352677







ART.-NO. UVP	DESCRIPTION
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CHAINRING

- black
- bolt circle 104 mm
- for 1/2 x 3/32 & 11/128" chains
- 0 offset
- for **Bosch** e-bike engines generation 1 and 3 and **Brose** e-bike engines (no original Bosch / Brose spare part)

teeth	steel		steel / Narrow Wide		aluminium / Narrow Wide	
	AM	OEM	AM	OEM	AM	OEM
32		356200	356213	356202	356243	356238
34			356214	356230	356244	356229
36	356204	356201	356215	356203	356245	356239
UVP	9,90 €	9,90 €	19,90 €	19,90 €	29,90 €	29,90 €
38	352682	352685	356216	356232	356246	356231
40	356205	356220	356217	356235	356247	356240
42	352683	352686	356218	356236	356248	356241
44	352684	352687	356219	356226		
46	356206	356228	356242	356237		
	50	50	50	50	50	50
UVP	9,90 €	9,90 €	24,90 €	24,90 €	36,90 €	36,90 €
						



32-40 teeth





42-46 teeth

DIRECT MOUNTS

- black
- for 1/2 x 3/32 & 11/128" chains



teeth	Bosch GEN3* chain line 47 mm		Bosch GEN4* chain line 50 mm Narrow Wide	
	AM	OEM	AM	OEM
34			356252	356210
36			356253	356211
38	356249	356207	356254	356212
40	356250	356208		
42	356251	356209		
UVP	9,90 €	9,90 €	24,90 €	24,90 €
				



art. 356207



art. 356210

Other sizes and designs available on request
 * no original Shimano spare part

ART.-NO.
UVP

DESCRIPTION

CHAINGUARD

- aluminium
- black anodized
- bolt circle 104 mm

teeth	CHAINGUARD 104		CHAINGUARD 104SL		CHAINGUARD 104CNC	
	AM	OEM	AM	OEM	AM	OEM
36					356256	356278
38					356257	356279
40	356255	356273			356258	356280
42			356261	356272		
44			356259	356275		
46			356260	356276		
48				356274		
	100	100	100	100	100	100
UVP	11,90 €	11,90 €	13,90 €	13,90 €	19,90 €	19,90 €



Chain Guard 104CNC

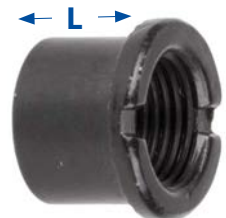
CHAINRING BOLTS

	AM (4 Pieces on M-Wave card)	OEM
M8 * 0,75 * L8.5 mm	356304	356300
M8 * 0,75 * L9.5 mm	356305	356301
M8 * 0,75 * L10.5 mm	356306	356302
M8 * 0,75 * L12.5 mm	356307	356303
	4	2000140
UVP	2,99 €/Set	0,69 €/St.



CHAINRING NUTS

	AM (4 Pieces on M-Wave card)	OEM
M8 * 0,75 * L5.5 mm	356310	356308
M8 * 0,75 * L8.5 mm	356311	356309
	4	
UVP	2,99 €/Set	0,69 €



SET OF CHAINRING BOLTS AND CHAINRING NUTS



- 356291** set of 4x screw M8 x 8.5 mm and 4x nut M8 x 5.5 mm, for the use without chainguard, in polybag
- 356293** set of 4x screw M8 x 10.5 mm and 4x nut M8 x 8.5 mm, for the use with chainguard, in polybag
- 500
4,99 €


4x



Other sizes and designs available on request



ART.-NO. UVP	DESCRIPTION	
<p>SPYDER FOR E-BIKE ENGINES OF BROSE</p> <p>for MTB Linkage battery frame with boost standard (art. 613620-2), chain line 52 mm, bolt circle 104 mm</p>		
<p>613500 50</p>	<p>for usage with chainguard</p>	
<p>613501 80</p>	<p>for usage without chainguard</p>	
<p>chain line 47 mm, bolt circle 104 mm</p>		
<p>613522 80</p>	<p>for usage with chainguard</p>	
<p>613523 80</p>	<p>for usage without chainguard</p>	
<p>chain line 49 mm, bolt circle 104 mm</p>		
<p>613520 50</p>	<p>for usage with chainguard</p>	
<p>613521 50</p>	<p>for usage without chainguard</p>	
<p>19,99 €</p>		

<p>SPYDER FOR E-BIKE MOTOREN OF BOSCH *</p>		
<ul style="list-style-type: none"> • aluminium • with chain guard mounting • black anodized • bolt circle 104 mm 		
<p>613513 80 14,90 €</p>	<p>for BOSCH GEN3 system, chain line 47 mm</p>	
<p>613514 80 24,90 €</p>	<p>for BOSCH GEN4 System, chain line 50 mm</p>	

<p>SPYDER FÜR E-BIKE ENGINES OF SHIMANO *</p>		
<ul style="list-style-type: none"> • aluminium • with chain guard mounting • black anodized • bolt circle 104 mm 		
<p>613512 100 24,90 €</p>	<p>for Shimano E6100, chain line 47 mm</p>	
<p>613511 100 19,99 €</p>	<p>for Shimano E6000, chain line 47 mm</p>	
<p>613510 100 19,99 €</p>	<p>for Shimano E5000, chain line 47 mm</p>	
<p>613508 100 24,90 €</p>	<p>for Shimano E7000 / 8000, chain line 50 mm</p>	
<p>613509 100 24,90 €</p>	<p>for Shimano E7000 / 8000, chain line 53 mm</p>	

* no original Shimano spare part



DESCRIPTION

CRANK, ISIS TYPE FOR BOSCH GEN1 + 2 + 4, BROSE *...

- black
- aluminium

length	left		right		Offset	
	AM	OEM	AM	OEM		
170	356108	356127	356109	356126	0 mm	
175	356110	356125	356111	356124		
170	356112	356123	356113	356122	5 mm	
175	356114	356121	356115	356120		
160	356116	356135	356117	356133	13 mm	
170	356118	356134	356119	356132		
	50	50	50	50		
UVP	11,90 €	11,90 €	11,90 €	11,90 €		



CRANK, BNI TYPE (MINI-ISIS), BOSCH GEN3 *

- black
- aluminium

length	left		right		Offset	
	AM	OEM	AM	OEM		
160	356140	356131	356141	356129	5 mm	
170	356142	356130	356143	356128		
	50	50	50	50		
UVP	11,90 €	11,90 €	11,90 €	11,90 €		





CRANK FOR SHIMANO 24 MM AXLES (FOR SHIMANO E8000 / 7000 / 6100) *

- black
- aluminium
- also suitable for Hollowtech II cranks

length	left		right		Offset
	AM	OEM	AM	OEM	
165	356144	356139	356145	356138	13 mm
175	356146	356137	356147	356136	
	50	50	50	50	
UVP	14,90 €	14,90 €	14,90 €	14,90 €	

The cranks are also available on request in other lengths, offsets and designs

* no original Bosch, Brose, Shimano spare part

ART.-NO. UVP	DESCRIPTION	
352667 50 8,90 €	4-EDGE RECORDING (JIS) <ul style="list-style-type: none"> • Offset: 20 mm • length: 170 mm • right • black 	
352639 100 1,90 €	AXLE BOLTS <ul style="list-style-type: none"> • suitable for Bosch and Brose e-bike cranks (no original Bosch/Brose spare part) • also suitable for ISIS bottom bracket with M15 thread 	

CHAIN GUARD

356285 100/10 11,90 €	CHAINGUARD <ul style="list-style-type: none"> • for Brose Motor Drive S + C + T + TF • aluminium • black • OEM 	
356286 100/10 11,90 €	BRACKET FOR CHAINGUARD <ul style="list-style-type: none"> • for Brose Motor Drive S + C + T + TF • with 2 angle brackets • black • incl. mounting screws • OEM 	
356287 200/10 5,90 €	356287 suitable for art. 356285 (42 - 44 teeth) 356297 suitable for art. 356286 (46 - 48 teeth)	
356298 4.000 0,99 €	ANGLE BRACKET <ul style="list-style-type: none"> • for fixing the chainguard at the seat stay or at the drop out • aluminium • suitable for art. 356285/6 • black • incl. mounting material • OEM 	



SAMOX



CARBON CRANK ARMS
DIRECT DRIVE ONE-PIECE CHAINRINGS
FOR BOSCH, SHIMANO, BROSE, FAZUA, ...






E-BIKE DRIVE PARTS FROM ONE HAND

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- largest, comprehensive range of parts for e-bikes
- custom-made products on request
- various materials and surface treatments possible
- all articles tested according to ISO 4210, test according to EFBE possible
- more than 10 years of competence in the production of e-bike parts
- fast availability thanks to our central warehouse in Baunach
- for aftermarket and factories

ART.-NO. UVP	DESCRIPTION
<p>393250</p> <p>10</p> <p>159,00 €</p>	<p>E-BIKE FORK 28"/29"</p> <ul style="list-style-type: none"> • Aluminum 7005 • Trekking • ahead steerer 285 mm, tapered, 1 1/8"- 1.5" • with disc brake mount (PM) • with eyelets for carrier • with two cable guide bosses • headset set 62 mm • OLD 100 mm • for up to 2.35" tire width • mounting height 460 mm (instead of suspension forks with approx. 65 mm travel) <div data-bbox="1037 286 1228 327" style="border: 1px solid black; padding: 2px; font-size: 8px;"> Tested according to E-Bike norm DIN EN 15194 </div> <div data-bbox="1037 344 1439 958"> </div>

<p>395215</p> <p>8</p> <p>99,90 €</p>	<p>SUSPENSION FORK</p> <p>›187 AMS‹ 28"</p> <p>Especially suitable for e-bikes</p> <table border="0"> <tr> <td>travel:</td> <td>65 mm</td> </tr> <tr> <td>suspension system:</td> <td>adjustable springs and MCU elastomers, with Lock-Out function</td> </tr> <tr> <td>lower:</td> <td>aluminum, one-piece, 28"</td> </tr> <tr> <td>stanchion:</td> <td>butted Hi-Ten</td> </tr> <tr> <td>crown:</td> <td>forged aluminum, with „Suntour light bracket“ (no original Suntour bracket)</td> </tr> <tr> <td>for brake:</td> <td>V- and disc brake (PM)</td> </tr> <tr> <td>steerer:</td> <td>1 1/8", 320 mm, without thread</td> </tr> <tr> <td>colour:</td> <td>matt black</td> </tr> <tr> <td>packaging:</td> <td>OEM</td> </tr> </table> <div data-bbox="1037 1120 1228 1160" style="border: 1px solid black; padding: 2px; font-size: 8px;"> Tested by the manufacturer according to EN 15194 </div> <div data-bbox="1037 1227 1391 1939"> </div>	travel:	65 mm	suspension system:	adjustable springs and MCU elastomers, with Lock-Out function	lower:	aluminum , one-piece, 28"	stanchion:	butted Hi-Ten	crown:	forged aluminum , with „Suntour light bracket“ (no original Suntour bracket)	for brake:	V- and disc brake (PM)	steerer:	1 1/8", 320 mm, without thread	colour:	matt black	packaging:	OEM
travel:	65 mm																		
suspension system:	adjustable springs and MCU elastomers, with Lock-Out function																		
lower:	aluminum , one-piece, 28"																		
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crown:	forged aluminum , with „Suntour light bracket“ (no original Suntour bracket)																		
for brake:	V- and disc brake (PM)																		
steerer:	1 1/8", 320 mm, without thread																		
colour:	matt black																		
packaging:	OEM																		

ART.-NO. UVP	DESCRIPTION
401501 25 19,90 €	<p>MTB HANDLEBAR ›FLAT ON TOP-29″ ‹</p> <ul style="list-style-type: none"> • aluminium • butted • length 780 mm • matt black • bar center Ø 31.8 mm • 10° back sweep • with scale at the sides • on Zoom eurohole card <div style="text-align: right; margin-top: 10px;"> <p>Tested by the manufacturer according to ISO 4210</p> <p>FLAT ON TOP</p>    </div>
401505 20 19,90 €	<p>MTB RISE HANDLEBAR</p> <ul style="list-style-type: none"> • aluminium • matt black • butted • length 780 mm • rise 20 mm • bar center Ø 31.8 mm • 9° back sweep • with scale in the middle and at the sides • on Zoom eurohole card <div style="text-align: right; margin-top: 10px;"> <p>Tested by the manufacturer according to ISO 4210</p>   </div>

BUILD YOUR OWN E-BIKE

EVERYTHING FROM A SINGLE SOURCE





FIVE FRAME CONCEPTS

+



BROSE-DRIVE

+











INTEGRATED BATTERY




+







BROSE DISPLAYS

ART.-NO. UVP	DESCRIPTION
<p>404177 60 mm</p> <p>404186 100 mm</p> <p>50</p> <p>17,90 €</p>	<p>AHEAD HANDLE STEM ›3D‹</p> <ul style="list-style-type: none"> • aluminium 3D forged • 1 1/8" • 7° • with Ø 31.8 mm clamp • from 113 g • OEM <div style="text-align: right;">  </div> <div style="text-align: center; margin-top: 20px;">  <p>113 g</p> <p>Tested by the manufacturer according to ISO 4210</p> </div> <div style="text-align: center; margin-top: 20px;">  </div>
<p>404505 90 mm</p> <p>404507 110 mm</p> <p>50</p> <p>17,90 €</p>	<div style="text-align: right;">  </div> <div style="text-align: center; margin-top: 20px;">  <p>113 g</p> <p>Tested by the manufacturer according to ISO 4210</p> </div> <div style="text-align: center; margin-top: 20px;">  </div>
<p>400312 length 90 mm</p> <p>400313 length 110 mm</p> <p>50</p> <p>19,90 €</p>	<p>AHEAD HANDLE STEM</p> <ul style="list-style-type: none"> • according to ISO 4210: increased requirements up to 140 kg • aluminium • adjustable from 0° to 90° • clamp Ø 31.8 mm • 1 1/8" (28.6 mm) • matt black • OEM <div style="text-align: right;"> <p>Tested by the manufacturer according to ISO 4210</p>  </div> <div style="text-align: center; margin-top: 20px;">  </div>

ART.-NO. UVP	DESCRIPTION
<p>430850</p> <p>40 16,90 €</p>	<p>SIDE STAND</p> <ul style="list-style-type: none"> • aluminium • extra robust design • adjustable from 24" - 29" • especially suitable for e-bikes • with stable safety foot • including mounting material • for assembling on the chainstay <p>›COLUMN-E2‹</p> <ul style="list-style-type: none"> • universally suitable for hole spacing 40 mm and 18 mm • with 2x M6 stainless steel mounting screws • on M-Wave eurohole card
<p>430853 U 430854</p> <p>40 16,90 €</p>	<p>›COLUMN-E1‹</p> <ul style="list-style-type: none"> • suitable for hole distance 18 mm • with anti-rotation slot • with 2x M5 stainless steel mounting screws and nuts <p>OEM on M-Wave eurohole card</p>
<p>430706</p> <p>40 19,90 €</p>	<p>SIDE STAND ›STRONG F‹</p> <ul style="list-style-type: none"> • aluminium • steplessly adjustable • extra robust design • for assembling behind the B.B. tube (between the chain stays) • with counter plate • with robust safety foot • suitable for 24" - 29" • OEM
<p>430734 U 430736</p> <p>40 16,90 €</p>	<p>SIDE STAND ›COLUMN-C1‹</p> <ul style="list-style-type: none"> • aluminium • extra robust design • adjustable from 24" - 29" • especially suitable for e-bikes • with stable safety foot • for assembling behind the B.B. tube (between the chain stays) • with counter plate <p>OEM on M-Wave eurohole card</p>
<p>430925</p> <p>40 14,90 €</p>	<p>SIDE STAND</p> <ul style="list-style-type: none"> • robust design for e-bikes, ... • for mounting on the chainstay, universally suitable for hole spacing • 40 and 18 mm • with 2 x M6 stainless steel washers and nuts • aluminium • adjustable without tools • for 24" - 29" • with safety foot • including mounting material • OEM

ART.-NO. UVP 	DESCRIPTION
430256 U 50 9,90 €	SIDE STAND <ul style="list-style-type: none"> • very stable version for e-bikes, ... • for mounting at the hub axle • with anti-scratch inlays • made of aluminium/steel • length adjustable without tools for 26" - 29" • with safety foot 
430960 U 20 29,90 €	DOUBLE LEG SIDE STAND ›HEAVY DUTY‹ <ul style="list-style-type: none"> • the leg on the chain side folds to the other side: thus there is no space problem on the chain side • aluminium • for assembling behind the B.B. tube (between the chain stays) • adjustable from 24" - 29" • with safety feet • incl. fixing screws and aluminium counter plate • OEM 
430217 U 5 29,90 €	BICYCLE DEPOT WALL HANGER <ul style="list-style-type: none"> • also approved for E-bikes up to 40 kg • for bikes, bike carriers, ski, ... • with helmet, ... deposit • very solid and loadable • two arms with plastic protection cover • foldable • with screws and plugs • with M-Wave eurohole card 

BICYCLE LIFT

430098 U 6 Set 36,90 €	BICYCLE LIFT ›BIKE LIFT STRONG‹ <ul style="list-style-type: none"> • hooks with plastic covers for scratch protection • stable round rope Ø 6.5 mm • up to 4 m ceiling height • usable up to 57 kg, so especially made for E-bikes • in M-Wave box 	 <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <ul style="list-style-type: none"> • E-BIKE ✓ • 57 KG ✓ </div>  
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TANNUS ARMOUR™

**THE FIRST ALLROUND
PUNCTURE PROTECTION**



TOP PROTECTION
13 - 15 mm

ARMOUR

INNER
TUBE

SIDE PROTECTION
2 - 5 mm

RIM PROTECTION
2 mm

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- Ideal for city, trekking, e-bikes, bike sharing

Our KENDA tubes with extra reinforced wall density. Suitable for e-bikes.



ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
MTB				



›HAVOK PRO‹ K-1184

528232 10 ★★ ★ 69,90 €	27.5 x 2.80 PLUS	71-584	<ul style="list-style-type: none"> • 120 TPI • Kevlar folded • EMC (Enduro-Mountainbike Casing) • E-Bike certified up to 50 km/h (ECE-R75) • DTC • SCT • Tubeless Ready • only 898 g • TCC: 2,275 mm 		eurohole card
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›HELLKAT PRO‹ K-1201E

528235 10 ★★ ★ 64,90 €	29 x 2.60	66-622	<ul style="list-style-type: none"> • 60 TPI • Kevlar folded • EMC • Dual Tread rubber compound (for speed (center) and grip (shoulder)) • Tubeless Ready • E-Bike approved up to 50 km/h (ECE-R75) • only 1,120 g • TCC: 2,384 mm 		eurohole card
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ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
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›NEVEGAL² PRO‹ K-1211E

BEST ENDURO E-BIKE 50 FOLDING

528236 10 ★★★★★ 59,90 €	29 x 2.40	60-622	<ul style="list-style-type: none"> • 60 TPI • Kevlar folded • EMC • Dual Tread • Tubeless Ready • E-Bike certified up to 50 km/h (ECE-R75) • only 948 g • TCC: 2,340 mm • 50 % less rolling resistance than standard Nevegal 	DUAL TREAD 	eurohole card
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›NEVEGAL X‹ K-1150

528230 10 ★★★ 59,90 €	650 B x 2.35 27.5 x 2.35	58-584	<ul style="list-style-type: none"> • 60 TPI • Kevlar folded • EMC (E-Mountainbike Casing) • E-DTC (Enduro DTC) • Tubeless Ready • E-Bike certified up to 50 km/h (ECE-R75) • only 987 g • TCC: 2,231 mm 	 	eurohole card
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›K-1153 PROTECT‹ K-1153

527537 10 29,90 €	29 x 2.10	52-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • TCC: 2,319 mm 	PUNCTURE PROTECTION 	tag
527538 10 29,90 €	650 B x 2.10 27.5 x 2.10	52-584	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • TCC: 2,205 mm 	PUNCTURE PROTECTION 	tag
527539 10 29,90 €	26 x 2.10	52-599	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • TCC: 2,121 mm 	PUNCTURE PROTECTION 	tag
















ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
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TREKKING / CITY



›KHAN‹ K-935

527774 10 ★ 24,90 €	700 x 35 C	37-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike certi ed up to 50 km/h (ECE-R75) • reflex • TCC: 2,199 mm 	 		tag	
527770 25 15,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2,199 mm 	 		with tag	
527765 10 ★ 27,90 €	700 x 38 C	40-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • reflex • TCC: 2,199 mm 	 		tag	
527754 10 ★ 27,90 €	700 x 40 C	42-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • reflex • TCC: 2,209 mm 	 		tag	
529087 25 16,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2,209 mm 	 		with tag	
522875 10 ★ 27,90 €	700 x 45 C 28 x 1.75	47-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • reflex • TCC: 2,249 mm 	 		tag	
529015 25 16,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2,249 mm 	 		with tag	

ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS		PACKAGING
522673 10 ★ 27,90 €	26x1.75	47-559	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • reflex • TCC: 2,023 mm 	 	tag 
529093 25 16,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2,023 mm 	 	with tag 
529095 25 13,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • TCC: 2,023 mm 	 	with tag 
529091 25 16,90 €	26x1.95	50-559	<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2.061 mm 	 	with tag 
529044 25 13,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • TCC: 2.061 mm 	 	with tag 



KHAN II







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›KHAN II‹ K-1172

529259 10 ★ 24,90 €	700 x 35 C	35-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • reflex • TCC: 2,190 mm 	 	tag 
527872 25 15,90 €	700 x 35 C	35-622	<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2,193 mm 	 	with tag 







ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS		PACKAGING
529258 10 ★ 27,90 €	700 x 40 C	42-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • reflex • TCC: 2,218 mm 	 	tag 
529090 25 16,90 €	700 x 40 C	42-622	<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2,231 mm 	 	with tag 
529257 10 ★ 27,90 €	700 x 45 C 28 x 1.75	45-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • reflex • TCC: 2,253 mm 	 	tag 
522895 25 16,90 €	700 x 45 C 28 x 1.75	45-622	<ul style="list-style-type: none"> • K-Shield • E-Bike approved • reflex • TCC: 2,253 mm 	 	with tag 
527880 25 ★ 21,90 €	700 x 50 C	50-622	<ul style="list-style-type: none"> • 30 TPI • K-Shield • E-Bike approved • reflex • only 1,092 g • TCC: 2,297 mm 	  	with tag 
527619 25 13,90 €	26x1.95	50-559	<ul style="list-style-type: none"> • K-Shield • E-Bike approved • TCC: 2.095 mm 	 	with tag 



›EUROTREK‹ K-197

527861 25 ★ 14,90 €	700x38 C	40-622	<ul style="list-style-type: none"> • 30 TPI • K-Shield • E-Bike approved • TCC: 2,202 mm 	 	with tag 
527825 25 ★ 18,90 €	700x45 C	47-622	<ul style="list-style-type: none"> • 30 TPI • K-Shield • E-Bike approved • reflex • only 918 g • TCC: 2,249 mm 	 	with tag 

ART.-NO. UVP	DESCRIPTION		
612021 20 14,90 €	E-BIKE BATTERY PROTECTION COVER ›E-PROTECT WRAP‹ <ul style="list-style-type: none"> • universal size for in the frame integrated e-bike batteries • isolation provides extended battery capacity • protection from coldness and weather conditions, scratches, stone chipping and impact damages • made of neoprene • in M-Wave box 		 
612010 U 40/10 14,90 €	BATTERY COVER ›E-PROTECT‹ <ul style="list-style-type: none"> • universal suitable for Bosch and Shimano down tube batteries (no original Bosch or Shimano spare part) • insulation provides extended battery capacity • made of Neopren / Cordura • protection from cold and weather • protection from scratches, grit or impact damages • in M-Wave box 	 	 
612022 250 9,90 €	E-BIKE BATTERY CONNECTOR PROTECTION ›E-PROTECT CONNECT‹ <ul style="list-style-type: none"> • universal size to cover the connection contacts of the frame with removed e-bike batteries • protection from dirt, water and damages • made of neoprene • on M-Wave eurohole card 		 
612020 U 40/10 14,90 €	BATTERY COVER ›ACCU PROTECT CARRIER‹ <ul style="list-style-type: none"> • universal size ideally suitable for carrier accumulators from Bosch (and Shimano) • extended accumulator runtime through isolation • protection of coldness and weather condition • protection of scratches, stone chipping and shock damage • made of neoprene • with opening to charge the accu mulator inside the carrier • in M-Wave box 	 	 
612030 20 19,90 €	EBIKE MOTOR PROTECTION COVER ›E-PROTECT CENTER‹ <ul style="list-style-type: none"> • universal size ideally suitable for e-bike motors of Shimano, Bosch, Brose, ... • size exibly adaptable • made of neoprene • protects the motor through isolation • protects from coldness, weather condition and dirt • prevents scratches, stone chipping and shock damage • in M-Wave box 		 

ART.-NO. UVP	DESCRIPTION	
612040 U 100 12,90 €	COCKPIT-/HANDLEBAR COVER <ul style="list-style-type: none"> protects e-bike displays, shift and brake levers, computer, ... against dust, dirt, rain, ... water resistant universally suitable for (almost) all handlebar shapes with rubber band and 4 hook and loop fastener on M-Wave eurohole card 	  
610010 4 699,00 €	EBIKE UNIVERSAL MIDMOUNTED MOTOR <ul style="list-style-type: none"> turns (almost) every bike into a midmounted E-Bike up to 25 km/h universally useable in (almost) every frame with 68 - 73 mm BSA bottom bracket 36 V, 250 W with torque sensor torque 50 Nm integrated controller incl. illuminated display remote control at the handlebar end USB connection possibility for smartphones, ... connection possibility for head lamp and rear light with pushing aid (6 km/h) suitable for derailleurs and internal gear box with integrated freewheel (not suitable for coaster brake hubs) with cable set (waterproof IP67) and speed sensor for bikes from 20" - 29" with 42 teeth chainring and chainguard with EMV and EMC verification 	 
610053 1 549,00 €	E-BIKE BATTERY <ul style="list-style-type: none"> with battery management system 375 Wh / 36 Volt lockable with charger rechargeable mounted on bike and separately with charge control indicator for mounting at eyelets for bottle cages dangerous goods class UN 38.3 	
081200 100 6,90 €	Single box for Brose engine art. 613010/1/2/4/5	

ART.-NO. UVP	DESCRIPTION
	<p>SPEED PEDELEC HELMET ›45S‹</p> <p>A great combination of safety and design. Riding an ebike cheers you up! Enjoying epower up to 45 km/h is a special experience. But don't forget safety! This is why we invented the new Mighty 45S helmet which is also approved for fast e-bikes, e-scooters and motor cycles. Its protective function is tested according to ECE R22.05 This helmet provides best comfort through its soft pads and effective ventilation.</p> <p>ventilation: 8 holes comfort: removable, washable comfort pads, with storage bag safety: tested according to ECE R22.05 technology: two-component shell, ABS face plate: polycarbonate In-Mold Microshell design: black / anthracite</p> <p>734100 size S, 55 - 56 cm</p> <p>734101 size M, 57 - 58 cm</p> <p>734102 size L, 59 - 60 cm</p> <p>734103 size XL, 61 - 62 cm</p> <p>6 159,00 €</p> <div style="text-align: right;"> </div> <div style="text-align: right;"> <p>✓ E-BIKE 45 KM/H</p> <p>✓ MOTORCYCLE</p> <p>Tested according to ECE R22.05</p> </div> <div style="text-align: right;"> </div>

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