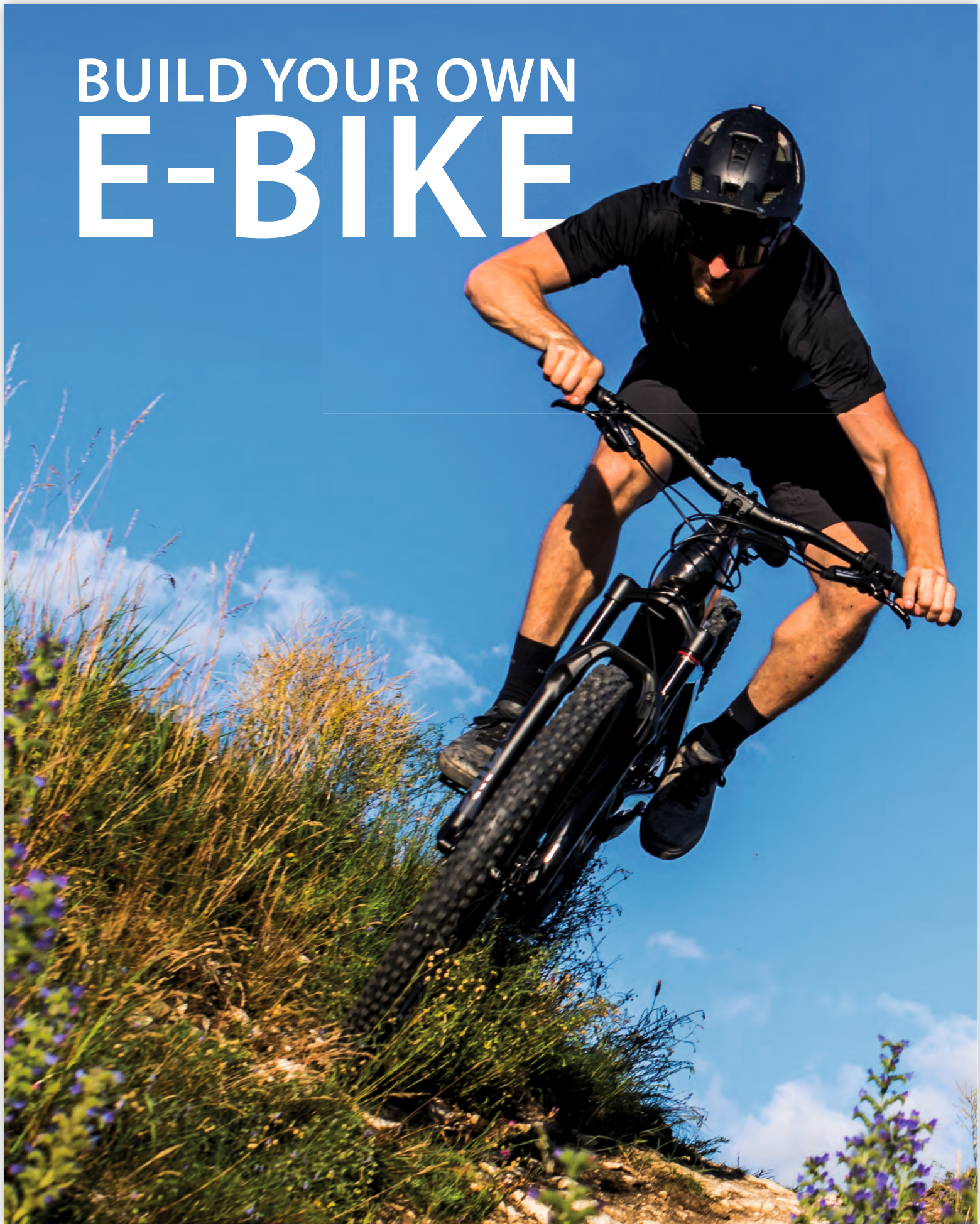


BUILD YOUR OWN E-BIKE



The desire to have your own e-bike:

no other trend has dominated the bicycle industry more intensively in recent years than the e-bike!. In 2020, sales records were set across Europe, making the e-bike segment the strongest bicycle segment in the individual countries. Almost 2 million e-bikes were sold in Germany alone. Quantitative market shares of + 40% are no longer uncommon and a further increase is seen as very realistic.

The e-bike is both a problem solver and an expression of a new sense of mobility that is simply fun, environmentally friendly and healthy.

With our almost 100 years of expertise in the development, procurement and marketing of bicycle components, we have developed a holistic concept that combines the latest state of the art in a wide range of possible variations and a high degree of customization.

The Messingschlager E-Mobility Solutions address the specific consumer and market needs of a wide variety of target groups in the international markets and offer the bicycle manufacturer maximum flexibility in terms of design, procurement and production.

Our e-mobility solutions are based on the legal EU directives and regulations for pedelecs and guarantee our customers legal security.

This enables our customers to enter the number 1 growth market in the bicycle industry in an uncomplicated, cost-efficient and faster than average manner!

Another important component of this concept was the introduction of the Messingschlager PartFinder in 2020. The range of parts, which will be significantly expanded for 2022, makes it easier for OEMs, dealers and end users alike to find the right load-appropriate bicycle part for the required application. Our recommended bicycle parts are tested and categorized according to the valid ISO 4210 / EN 15194 standards up to 120 kg and sometimes even up to 160 kg.

The long-standing experience of the company Messingschlager gives you assistance, market-driven answers and important reliability in a time when the international supply chains are heavily

stressed and product availability is characterized by great uncertainties and long lead times.

The e-bike has arrived in the middle of society. Don't let the dynamics of this product segment and its opportunities slip by!

We are happy to support you!

Your Team Messingschlager

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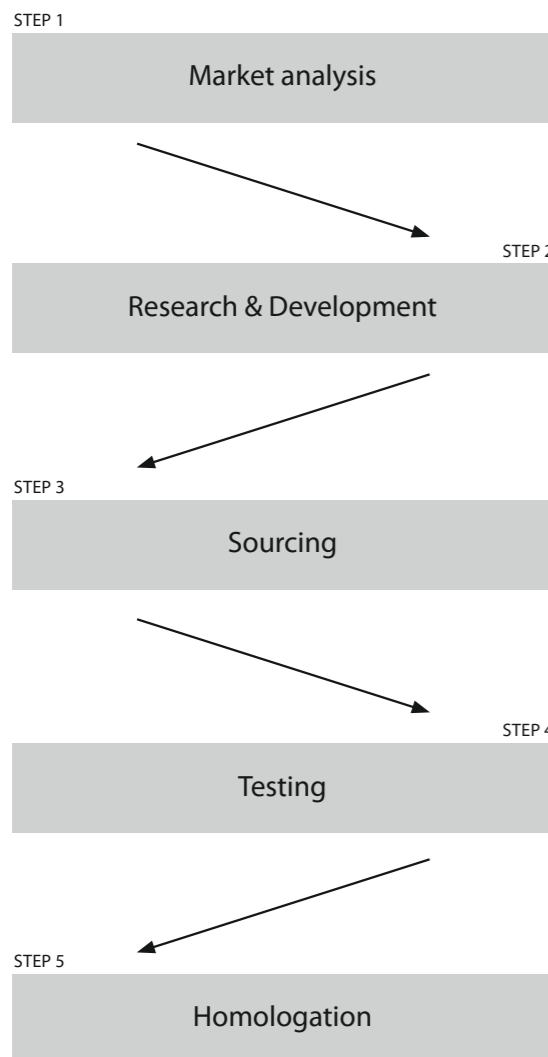
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YOUR BENEFIT

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

Two possible ways

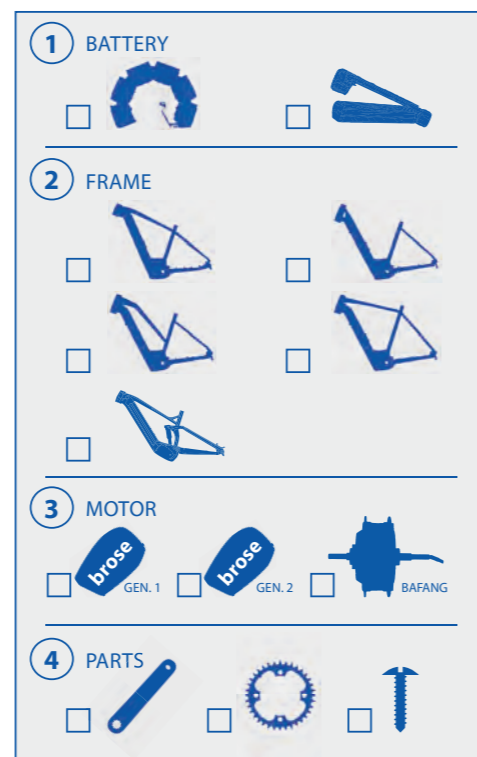
IN-HOUSE DEVELOPMENT



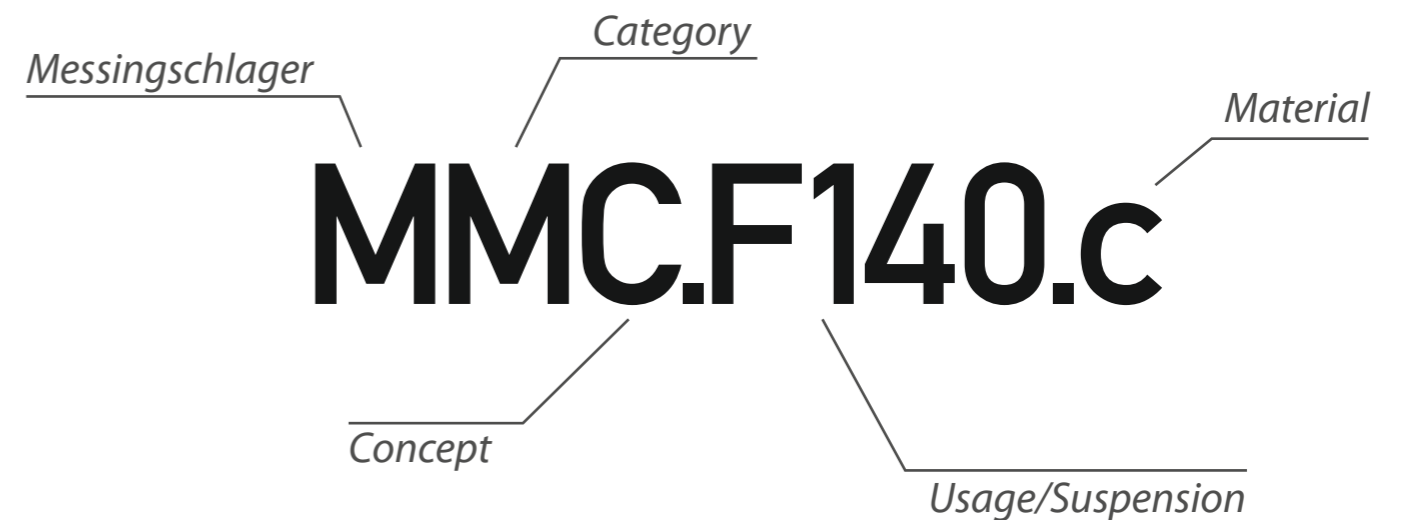
Time to market:
At best 18 months



Manufacturer + Messingschlager
OEM-Service-Team



Time to market:
approx. 6-12 months normally*



New classification system at Messingschlager

With the emergence of further, new frame platforms, the need for a new designation formula arose to develop and re-categorise our product range accordingly. From this season on we will name our e-bike kits as follows:

- **MMC.F140.c / SUV** Messingschlager Mountain Concept – Fullsuspension (140 mm) – Carbon frame
- **MMC.HT.al** / Messingschlager Mountain Concept – Hardtail – Aluminium frame
- **MUC.T.al** / Messingschlager Urban Concept – Trekking-E-Bike – Aluminium frame
- **MUC.C.al / SUV** Messingschlager Urban Concept – City and SUV-E-Bike – Aluminium frame
- **MUC.C.al** / Messingschlager Urban Concept – City-E-Bike – Aluminium frame
- **MUC.L.al** / Messingschlager Urban Concept – Light-E-Bike – Aluminium frame
- **MRC.G.al** / Messingschlager Road Concept – Gravel-E-Bike – Aluminium frame

*As of Sep. 2021: Exact promises of delivery dates are only possible in individual cases

SYSTEMS



Brose

Messingschlager and Brose have a longstanding partnership. The variability of the two motor platforms, aluminum or magnesium housing, enables a wide range of applications.

Messingschlager is one of the first manufacturers to install the complete Brose motor system - consisting of a motor, newly developed 630 Wh battery and smart display. Maximum flexibility is the key to success, which is reflected in the new E-MTB Fully and Gen2 (City, Trekking, Hardtail MTB) concepts.

For the high-performance E-MTB MMC.F140.c we rely on the 90 Nm strong Drive S Mag from Brose with a magnesium housing. With our city platform Gen2, a Brose Drive C, T or S is optional. The different performance features ensure the best possible adaptation to the respective market.

We also install Brose displays to match the engine. Depending on the model, the compact remote or the smart Brose Allround display is used here.

For long ranges, we mount the newly developed Brose battery with 630 Wh in our E-MTB. State of the art cell technology and a high level of power density are used. In our new city concept Gen2, we offer either a 522 or 630 Wh battery.

It goes without saying that the battery is fully integrated in the down tube of each of our e-bikes, giving a streamline and slick appearance!



Bafang

Bafang is a well-known manufacturer of motor systems for e-bikes of all types. The company occupies a leading position worldwide in hub motors, has an extensive range of products and, with its open system architecture, enables the greatest possible freedom of design for OE customers. Regardless of whether it is a rear, mid,

front or cargo engine, Bafang has products to fit all markets. There are also displays of all quality levels and suitable batteries. The entire Bafang range is available from Messingschlager.

This is reason enough to equip the product range of our light e-bikes with selected new hub motors of Bafang.

These compact motors fit in with the 360 Wh battery - which, are equipped with the latest 21700 cell technology and fit seamlessly with the clean design of our light e-bikes. Depending on the application, we install the sporty, compact DP C11 or the clear DP C240 displays.



MMC.F140.c / Messingschlager Mountain Concept Fully Carbon

“Generous full suspension
on travel & an impressive
performance!”

For sporty use on the trail: high-end all-mountain with carbon frame, 140 mm suspension travel and a complete Brose drive system.



MMC.F140.c



MMC.F140.c – developed for high-end-E-MTBs

When developing this new platform, Messingschlager was concerned with designing a carbon frame based on the most modern geometric approaches for all-mountain/trail applications. We followed a clear goal: to develop a modern carbon design at an attractive price. What is interesting about our MMC.F140.c: as well as the main frame, the rear end and shock absorber rocker also made of carbon ensuring a low overall weight.

With this frame as a basis, complete bicycles weighing less than 22 kg can be built. In addition to its low weight, the use of mixed wheel sizes with 29", 27.5" or Mullet system are possible. For the motor, we opted for the high performance and power of the Brose Drive S Mag with a maximum torque of up to 90 Nm. The new Brose battery with 630 Wh is fully integrated in the down tube. For the display we recommend minimalist solutions with the Brose Display Remote or Allround.

Categorization:



MMC.F140.c

System



Brose Remote Display



Brose Drive S Mag

Brose battery with 630 Wh



In our newly developed e-all-mountain with a carbon frame, we are one of the first providers to install the complete system from Brose.

This complete package includes the Brose Drive S Mag motor, the newly developed Brose battery with 630 Wh and the extremely compact Remote Display, also from Brose.

This system underlines the sporty approach of our frame platform and enables the construction of strong and smooth performance E-MTBs.



The frame, shock absorber and rear end are made of high-quality carbon fibers. This guarantees a low weight with optimal rigidity.



When it comes to the built-in components of the motor system, we rely on the entire Brose product range.



Design and formal language are modern and independent, but do not have a polarizing effect on the viewer.

Key Facts

27.5"/29"
Variable

To ensure the greatest variability our E-All Mountain was designed so that both 27.5" and 29" wheels can be mounted.

90
Nm

The heart of our full suspension is formed by the Brose Drive S Mag, which has achieved a maximum torque of 90 Nm with a weight of only 2.9 kg.

140
mm

When coordinating the suspension travel of up to 140 mm, our developers paid attention to a progressive characteristic curve for perfect performance.

630
Wh

This powerful unit is supplied with electricity by a fully integrated battery, which has a capacity of 630 Wh and guarantees the best range.

Geometry



Fully

FULLY	S/M	M/L	L/XL
Seat tube length	400 mm	420 mm	480 mm
Top tube length horizontal	600	632	664
Steerer tube	118	140	162
Chain stay	465 mm	465 mm	465 mm
Steerer tube angle	66°	66°	66°
Seat tube angle	74.9°	74.7°	74.6°
Wheelbase	1219 mm	1252 mm	1286 mm
Reach	434 mm	460 mm	485 mm
Stack	610 mm	630 mm	650 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40
Fork installation height	551 mm	551 mm	551 mm
Seat post Ø	31.6 mm	31.6 mm	31.6 mm

MMC.HT.al / Messingschlager Mountain Concept Hardtail Aluminium

„Powerful e-hardtail
with a wide
range of uses“

At home on all trails with Brose
Generation 2, whether after
work or for the weekend
ride.





MMC.HT.al – Powerful e-hard-tail with a wide range of uses

An E-MTB for all situations - our MMC.HT.al comes pretty close to this ideal. Whether on the narrow single trails of German low mountain ranges or on alpine gravel roads, the MTB hardtail meets all requirements perfectly.

Driven by proven Brose Mag generation 2 drives, the MMC.HT.al is designed for a wide range of uses in the touring sector and is recommended for suspension forks with 100–120 mm travel on 29" wheels or 120–140 mm travel on 27,5" wheels.

The advantage of the concept lies in its great variability with useful details: Boost thru-axle standard, the option of mounting a dropper post with internal cable routing, flexible battery capacity from 522 Wh or 630 Wh for maximum range. The lightweight battery is elegantly integrated into the frame and ensures a clean, harmonious look. For the display, we recommend the universal and informative allround display from Brose for all relevant information during an E-MTB tour.

Categorization:



MMC.HT.al

System



Brose Allround Display



Brose Drive S Mag

Battery with 522 or 630 Wh



Our MTB hardtail frame is designed for the best possible all-round properties. It can optionally be equipped with Brose Drive C, S or T drives, depending on the desired driving dynamics and also with the Mag version.

The Brose Allround Display keeps the driver up to date with all important tour data at all times. Depending on the desired range and pricing, the hardtail platform can be specified with a 522 or 630 Wh battery.

Both the drive and the batteries are always optimally integrated into the frame. Perfect for a quick evening round or a long weekend tour.



Optimal full integration into the frame: lightweight batteries with 522 Wh for attractive price points or 630 Wh for maximum range.



Elegantly integrated and still informative with all important tour data: the Brose LCD color display „Allround“.



High flexibility: rearend with 12x148mm Boost thru axles and for tire widths up to 29" x 2.4" or 27.5" x 2.8".

Key Facts

27.5"/29"
Variable

In order to guarantee the greatest possible variability, our E-MTB hardtail was designed in such a way that both 27.5" and 29" wheels can be mounted.

90
Nm

Powerful Brose Drive S Mag drive with a maximum torque of 90 Nm and a weight of only 2.9 kg.

120/140
mm

Flexible suitability for suspension forks up to 120 mm (29") or 140 mm (27.5") for a wide range of applications.

522/630
Wh

Optionally with 522 Wh or 630 Wh for maximum range or attractive price points.

Geometry



Hardtail

HARDTAIL	S/M	M/L	L/XL
Seat tube length	420 mm	460 mm	500 mm
Top tube length horizontal	606	637	659
Steerer tube	160	160	170
Chain stay	480 mm	480 mm	480 mm
Steerer tube angle	68°	68°	68°
Seat tube angle	73°	73°	73°
Wheelbase	1178 mm	1198 mm	1218 mm
Reach	405 mm	435 mm	455 mm
Stack	658 mm	663 mm	668 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40
Fork installation height	503 mm	503 mm	503 mm
Seat post Ø	31.6 mm	31.6 mm	31.6 mm

MUC.T.al / Messingschlager Urban Concept Trekking Aluminium

„Go for the next discovery tour with powerful 90 Nm.“

Contemporary design and the whisper-quiet Brose drive for high-quality travel and trekking fun.





MUC.T.al – the perfect basis for an attractive trekking e-bike

“The journey is the goal” - hardly any other model in our e-mobility program applies this motto as much as it does with MUC.T.al. It is quite possible that the rider would like to cover the route again when he or she has arrived. Uphill? None noticed. Headwind? Can't be at all. Heavy baggage? Could have been more. Arrive relaxed! At any time. Our recipe for success: an aluminum frame suitable for touring, which impresses with its geometry suitable for long journeys and is compatible with all Brose Mag generation 2 drives. Its quiet and high-torque characteristics - whether Drive T with 70 Nm or Drive S with 90 Nm of torque - make the Brose drive the perfect, unobtrusive but powerful partner for long trekking tours.

We also offer batteries with a capacity of up to 630 Wh. Maximum variability is the motto for the drive. Due to the open construction of the frame triangle, both belt and chains drives can be installed. The modern Brose all-round display in smartwatch design offers the discerning rider good readability and a large number of useful functionalities and rounds off the overall drive concept.

Categorization:



upper picture: women's version
left picture: men's version

System



Brose Allround Display



Brose Drive C/T or S

Battery with 522 or 630 Wh



Cover long distances with the best possible comfort and reliable, quiet pedal assistance - this is ensured by our new frame concept and the powerful Brose Drive C, T or S drives with 50, 70 or

90 Nm maximum torque. This makes riding uphill an easy task. For the cockpit, we opted for the Brose all-round display with the look of a

smartwatch and elegant integration. For trekking applications, we recommend the 630 Wh battery, ideally suited for a long weekend tour or the stages of bike travelling.



The geometry, construction and details of the new trekking frame provide the best prerequisites for touring specifications.



The new Allround display from Brose impresses with its functionality and the clean look of a smart watch.



Flexibility with the motor: this model can optionally be equipped with Brose Drive C, T or S - with a belt or chain drive.

Key Facts

50/70/90
Nm

Driven by Brose Drive C, T or S motors, the customer has the option of 50, 70 or 90 Nm max. torque.

MAX
Vario

Maximum variability: thanks to the frame lock and construction, chain, hub and belt drives can be installed.

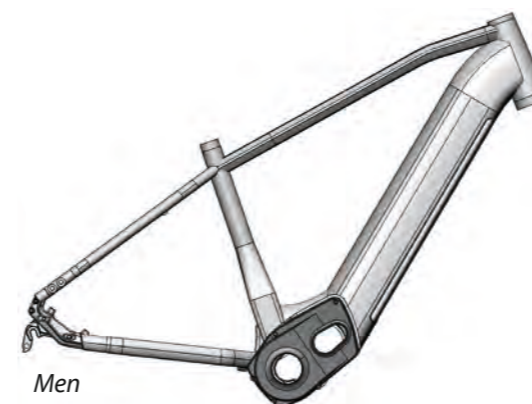
522
630
Wh

The battery with 522 or 630 Wh is fully integrated into the frame and enables long ranges or low price points.

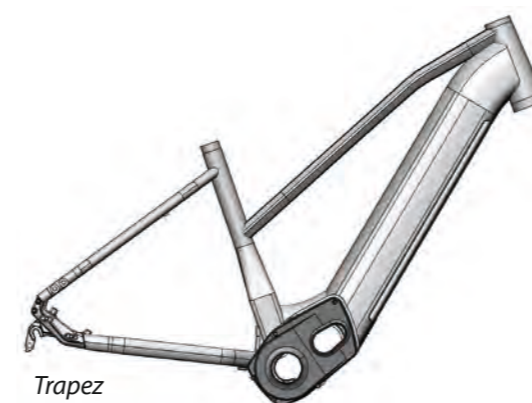
TREK

Men's or trapeze frames with trekking-specific details and geometry for long-distance comfort.

Geometry



TREKKING MEN	S	M	L	XL
Seat tube length	450 mm	500 mm	550 mm	600 mm
Top tube length horizontal	608	615	623	628
Steerer tube	170	180	190	190
Chain stay	475 mm	475 mm	475 mm	475 mm
Steerer tube angle	71°	71°	71°	71°
Seat tube angle	73°	73°	73°	73°
Wheelbase	1122 mm	1130 mm	1139 mm	1144 mm
Reach	408 mm	413 mm	418 mm	423 mm
Stack	653 mm	662 mm	671 mm	671 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40
Fork installation height	460 mm	460 mm	460 mm	460 mm
Seat post Ø	31.6 mm	31.6 mm	31.6 mm	31.6 mm



TREKKING TRAPEZ	S	M	L
Seat tube length	450 mm	500 mm	550 mm
Top tube length horizontal	599	609	620
Steerer tube	170	180	190
Chain stay	475 mm	475 mm	475 mm
Steerer tube angle	71°	71°	71°
Seat tube angle	73°	73°	73°
Wheelbase	1104 mm	1124 mm	1136 mm
Reach	400 mm	407 mm	415 mm
Stack	653 mm	661 mm	671 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40
Fork installation height	460 mm	460 mm	460 mm
Seat post Ø	31.6 mm	31.6 mm	31.6 mm

MUC.C.al^{SUV} / Messingschlager Urban Concept City Aluminium SUV

“Our interpretation
of a real SUV!
Perfect for on- and offroad”

A city e-bike can be hardly score when used
aside from on the road? That's wrong! With
our SUV concept we have made an on-road
bike absolutely suitable for off-road use.

Totally versatile, totally sexy,
totally SUV





MUC.C.a^{SUV} – this is how we imagine a real SUV

City e-bikes have many advantages, but are in terms of off-road suitability inferior to the normal eMTB.

Messingschlagel has taken on this subject and presents an interpretation of an all-road e-bike, ideal for on- and off-road use. It unites the advantages of a low-entry bike with more off-road mobility.

The geometry and seating position promises in urban areas, as well as on gravel or forest paths a high degree of comfort and suitability for touring.

Our SUV is equipped and well prepared for all eventualities that may come up on an e-bike on a weekend tour or a shopping trip to the weekly market. This is thanks to a powerful lighting system, elegant integration of mudguards and luggage racks as well as thick knobby tires.

The aluminum frame with comfortable geometry and low step trough entry is compatible with all Brose motors - Drive C, T or S - compatible.

To increase flexibility to a maximum, we also offer here the option of a 522 Wh battery - for implementation of particularly cheaper price points - or a range extending 630 Wh battery.

Open frame triangle for maximum flexibility (chain drive as well as belt drives possible without any problems).

Categorization:



System



Brose Display Central



Brose Drive C/T oder S

Battery mit 522 oder 630 Wh



Our variable city platform makes a wide range of applications possible. With a bright lighting system and chunky, bulky tires this e-bike turns into a real SUV.



Always everything in view! The Brose display central sits in the middle above the handlebars, impresses with its functionality and good readability, whether on- or offroad.



Flexibility with the engine: this model can optionally be equipped with a Brose Drive C, Drive T or Drive S.

With this frame platform, we offer the greatest possible variability and flexibility. Equipped with either Brose Drive C, T or S, the driving dynamics can be adapted to different purposes. With a maximum torque of 90 Nm, this e-bike feels at home in any area.

As an information center, we decided on the Brose Central Display, which thanks to its 3.5-inch color display offers a great overview and is linked to the Brose Display Remote and functions as a practical control unit.

For good ranges in urban areas, we offer two different batteries with 522 or 630 Wh for this platform. This means that nothing stands in the way of a long tour at the weekend or the daily commute to the office.

Key Facts

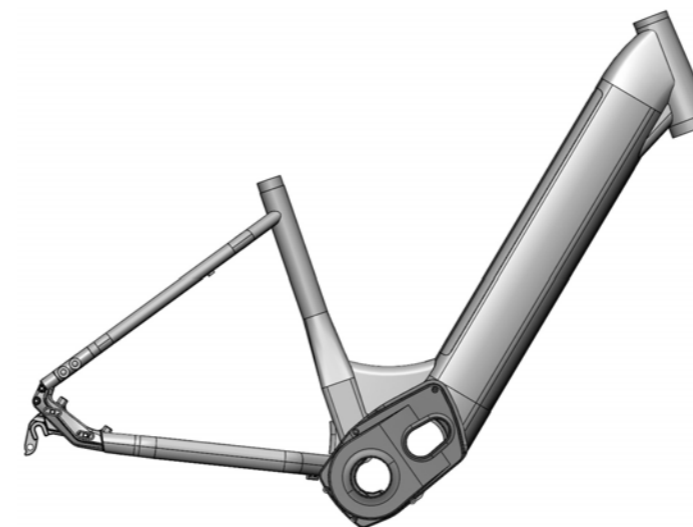
50/70/90
Nm
Driven by Brose Drive C, T or S motors, the customer has the option of 50, 70 or 90 Nm max. torque.

MAX
Vario
Maximum variability: thanks to the frame lock and construction, chain, hub and belt drives can be installed.

522/630
Wh
The battery, optionally in 522 or 630 Wh, is fully integrated in the frame and enables large ranges in an urban environment.

SUV
Coarse, voluminous tires up to 2.35", elegantly integrated mudguard / luggage rack unit, 80-100 mm suspension travel, high-quality lighting system – our interpretation of an SUV!

Geometry



Wave

	S	M	L
Seat tube length	440 mm	490	540
Top tube length horizontal	612	629	645
Steerer tube	170	185	200
Chain Stay	475 mm	475 mm	475 mm
Steerer tube angle	67°	67°	67°
Seat tube angle	70°	70°	70°
Wheelbase	1124 mm	1141 mm	1159 mm
Reach	390 mm	402 mm	414 mm
Stack	644 mm	658 mm	671 mm

MUC.C.al / Messingschläger Urban Concept City Aluminium

“Modern e-bikes
belong in the city
like gondolas on the
Grand Canal”

Contemporary design and high
variability, consistently and
smart appearance.





MUC.C.al – the perfect basis for an attractive city e-bike

E-bikes have become indispensable in urban areas. It is time for Messingschlager to use the experience gained and to further develop our well-known city and trekking line of the first generation. The aluminium frame with comfortable geometry and low entry is compatible with all Brose motors - Drive C, T or S. This also applies to the trekking concept. In order to increase the range, we also offer the option of using a 522 Wh battery - for particularly low-cost price points - or a long-range 630 Wh battery.

The battery removal was designed so that the cover and battery can be removed upwards without tools and that important ergonomic aspects are taken into account. We also have the greatest possible variety of power transmissions and, like the first generation, we use an open frame triangle so that both chain and belt drives can be installed without any problems.

Categorization:



MUC.C.al

System



Brose Allround Display



Brose Drive C/T or S

Battery with 522 or 630 Wh



With this frame platform, we offer the greatest possible variability and flexibility. Equipped with either Brose Drive C, T or S, the driving dynamics can be adjusted for different purposes.

With a maximum torque of 50, 70 or 90 Nm, this e-bike feels at home anywhere. As an information center, we decided on the Brose Allround Display, which impresses with its smart watch-like design and high functionality.

For high ranges in urban areas, we offer two different batteries with 522 or 630 Wh for this platform. This means that nothing stands in the way of a long weekend tour or the daily commute to the office.



The construction and design of our new city platform is modern, variable and ergonomic.



The new Allround display from Brose: high functionality with the clean look of a smart watch.



Flexibility in the drive: chain, hub and belt drives are possible thanks to a frame lock construction.

Key Facts

50/70/90
Nm

Driven by Brose Drive C, T or S motors, the customer has the option of 50, 70 or 90 Nm max. torque.

MAX
Vario

Maximum variability: thanks to the frame lock and construction, chain, hub and belt drives can be installed.

522
630
Wh

The battery, optionally in 522 or 630 Wh, is fully integrated in the frame and enables large ranges.

WAVE

Practical and elegant wave frame shape with deep entry and geometry for the challenges of the city.

Geometry



Wave

WAVE	S	M	L
Seat tube length	440 mm	490 mm	540 mm
Top tube length horizontal	612	629	645
Steerer tube	170	185	200
Chain stay	475 mm	475 mm	475 mm
Steerer tube angle	69°	69°	69°
Seat tube angle	71°	71°	71°
Wheelbase	1124 mm	1141 mm	1159 mm
Reach	390 mm	402 mm	414 mm
Stack	644 mm	658 mm	671 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40	ZS44/28.6 ZS56/40
Fork installation height	460 mm	460 mm	460 mm
Seat post Ø	31.6 mm	31.6 mm	31.6 mm

MUC.L.al / Messingschlager Urban Concept Light Aluminium

“Stylish & slim,
nobody spots an
e-bike here!”

The e-bikes in our Light series combine timeless bicycle design with the latest e-technology and light weight.





MUC.L.al – light and stylish through the city

Equipped with a stylish design and variability, this concept speaks for itself. Messingschlager offers two frame platforms: urban/gravel and wave. Our light e-bike can be equipped with various Bafang motors and thus has a maximum of 30, 42 or 45 Nm. Torque. The fully integrated 360 Wh battery with 21700 cell technology is installed seamlessly in the slim down tube.

Thanks to this integration and the successful design, it is almost impossible to tell from our light model that it is a real e-bike with a possible weight of less than 15 kg. For more flexibility, we have equipped this frame with an open dropout to keep all options in terms of chain or belt drive open.

Categorization:



upper picture: Urban/Gravel frame concept
left picture: City Wave frame concept

System



The urban version of our light e-bike can be equipped with three different rear engines, which have a maximum torque of 45 Nm.

The internally installed, almost invisible, slim battery supplies the system with sufficient energy the battery is equipped with the latest 21700 cell technology.

As for display, we rely on the easy-to-use and clearly designed DP C240 from Bafang, which is operated with a remote unit.

Geometry



URBAN / GRAVEL	S	M	L	XL
Seat tube length	460 mm	500 mm	540 mm	580 mm
Top tube length horizontal	560	570	580	590
Steerer tube	150	160	170	180
Chain stay	445 mm	445 mm	445 mm	445 mm
Steerer tube angle	69°	69°	69°	69°
Seat tube angle	73°	73°	73°	73°
Wheelbase	1065 mm	1075 mm	1086 mm	1097 mm
Reach	379 mm	386 mm	393 mm	402 mm
Stack	592 mm	601 mm	611 mm	620 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30
Fork installation height	430 mm	430 mm	430 mm	430 mm
Seat post-Ø	31.6 mm	31.6 mm	31.6 mm	31.6 mm



WAVE	S	M	L
Seat tube length	460 mm	520 mm	580 mm
Top tube length horizontal	565	596	627
Steerer tube	165	185	205
Chain stay	445 mm	445 mm	445 mm
Steerer tube angle	69°	69°	69°
Seat tube angle	73°	73°	73°
Wheelbase	1071 mm	1103 mm	1135 mm
Reach	380 mm	405 mm	430 mm
Stack	606 mm	625 mm	644 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30
Fork installation height	430 mm	430 mm	430 mm
Seat post-Ø	31.6 mm	31.6 mm	31.6 mm



Our light e-bike is driven by a compact and powerful Bafang hub motor, which blends inconspicuously into the slim appearance.



The DP C240 Remote display is also from Bafang and is easy to use.



The on / off button has been integrated inconspicuously in the bottom bracket area, creating a clean design.

Key Facts

30/42/45
Nm

Driven by compact Bafang hub motors, our light e-bike has torques of 30, 42 or 45 Nm.

MAX
Vario

Maximum variability: thanks to the frame lock and construction, chain and belt drives can be installed.

360
Wh

The battery with the latest 21700 cell technology, which has a capacity of 360 Wh, is fully integrated in the slim down tube.

<15
kg

Stylish and smart, that's exactly how we design our light e-bike. In addition, the name suggests that low weights of less than 15 kg are possible.

MRC.G.al / Messingschlager Road Concept Gravel Aluminium

“*Riding a gravel bike
is even more fun with
an engine!*”

We have consistently expanded our innovative Light series to include the Road style: An e-gravel bike with an almost invisible 360 Wh battery and a powerful motor at the rear.





MRC.G.al – Gravel fans will be thrilled

Light e-bikes not only work in urban areas, they also work very well off the beaten track. With our MRC.G.al, we have designed a light e-bike that shouldn't be missing on extended bike tours, is perfect for commuters or fitness session in your free time. We recommend two models from Bafang for the motors:

- **H400** for longer, powerful climbs
- **H600** for optimal lightweight construction (2 kg!)

Both motors are compactly integrated in the rear wheel hub and, with the optional torque sensors, offer similar support characteristics. The internally built-in battery has a compact design, is equipped with the latest cell technology and has a capacity of 360 Wh and is integrated seamlessly into the down tube. In conjunction with the low-profile tires, impressive ranges are possible.

Categorization:





The light e-gravel bike is powered by a compact Bafang hub motor, which is inconspicuously integrated into the slim appearance.

The control unit DP C11 also comes from Bafang and ensures a harmonious, sporty operating concept.

In order to maximize the intended use, the rear end and fork were designed so that tires up to max. 29x2.1 can easily fit into it.

Sporty e-bikes need the right motor! Bafang supplies us with the right motors which, depending on the model, have a maximum torque of up to 45 Nm.

For improved performance and an even more sensitive sensor system, we use a special bottom bracket that makes the modulation of the engine characteristics very sensitive through the torque.

The inconspicuous Bafang DP C11 is used as a display, which blends harmoniously into the overall picture and clearly displays all the important data.

Key Facts

30/42/45
Nm

Driven by compact Bafang hub motors, our light e-bike has torques of 30, 42 or 45 Newton meters.

360
Wh

The battery with the latest 21700 cell technology and a capacity of 360 Wh, sits in the slim down tube.

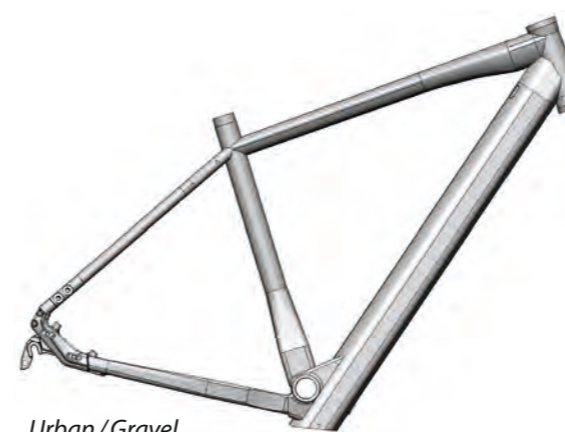
MAX
Performance

Thanks to different motors, there are multiple options with this light e-bike. Light or powerful - the choice is up to you.

15
kg

Stylish and smart, that's exactly how we call our light e-bikes. In addition, the name suggests the sensationally low weight of approx. 15kg.

Geometry



Urban/Gravel

URBAN / GRAVEL	S	M	L	XL
Seat tube length	460 mm	500 mm	540 mm	580 mm
Top tube length horizontal	560	570	580	590
Steerer tube	150	160	170	180
Chain stay	445 mm	445 mm	445 mm	445 mm
Steerer tube angle	69°	69°	69°	69°
Seat tube angle	73°	73°	73°	73°
Wheelbase	1065 mm	1075 mm	1086 mm	1097 mm
Reach	379 mm	386 mm	393 mm	402 mm
Stack	592 mm	601 mm	611 mm	620 mm
Head set (S.H.I.S.)	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30	ZS44/28.6 ZS44/30
Fork installation height	430 mm	430 mm	430 mm	430 mm
Seat post Ø	31.6 mm	31.6 mm	31.6 mm	31.6 mm

ART.-NO. DESCRIPTION

E-BIKE FRAMES

- raw finish
- external charging connection
- for semi-integrated head set,
- 1 1/8" → 1.5", tapered
- for seat stays with Ø 31.6 mm

City, 28"

- 613710** size S, 44 cm
- 613711** size M, 49 cm
- 613712** size L, 54 cm

Trekking W

- 613713** size S, 45 cm
- 613714** size M, 50 cm
- 613715** size L, 55 cm

Trekking M

- 613716** size S, 45 cm
- 613717** size M, 50 cm
- 613718** size L, 55 cm
- 613719** size XL, 60 cm

MTB Hardtail, 29"

- 613720** size S, 42 cm
- 613721** size M, 46 cm
- 613722** size L, 50 cm



660326 DERAILLEUR HANGER

- fits Brose G2 city / trekking frames
- for Postmount 160 mm
- **left**



DERAILLEUR HANGER

- fits Brose G2 city / trekking frames
- slider **right** side / drive side



613623 for internal gear hub



660327 for derailleur

613625 DERAILLEUR HANGER SET

- fits Brose G2 city / trekking frames
- set for 12x142 mm thru axle
- for derailleur



613624 DERAILLEUR HANGER

- fits Brose G2 MTB frames (art. 613720-2)
- right side
- incl. screws



ART.-NO. DESCRIPTION

321195 THRU AXLE WITH LEVER
>SCRAX B-12 148 QR<



- **hidden** QR lever
- **OLD 148 mm**
- **aluminium**
- only **55 g**
- M12 x length 178 mm
- thread pitch: 1.5 mm
- thread length: 18 mm
- e.g. for MTB or e-bike frames art. 613620 et seq.
- OEM

BOOST OLD 148



393250 E-BIKE FORK 28"/29"

10

- **aluminum 7005**
- Ahead steerer 285 mm, tapered, 1 1/8" - 1.5"
- for disc brake mount (PM)
- with eyelets for carrier
- with two cable guide bosses
- head set rest 62 mm
- OLD 100 mm
- for max 2.35" tire width
- mounting height 460 mm (instead of suspension fork with approx. 65 mm travel)
- compatible to all Brose Gen1- and Gen2 (city) models

based on DIN EN 15194

1 1/8"

1.5"



BATTERY AND ACCESSORIES

613206 Battery BN21L integrated, 36 V, 630 Wh



613201 Battery BN21L integrated, 36 V, 522 Wh

613236 Top Side Docking Station für Akku BN21 Kit 1



613237 Down Side Docking Station für Akku BN21 Kit 2



613227 charger, 4 A, EU type



613224 charger, 4 A, UK type



613228 charger, 2 A, EU type

613225 charger, 2 A UK type, for art. 613201, 613206

E-BIKE KIT PARTS

ART.-NO. DESCRIPTION

BROSE MOTORS AND ACCESSORIES

- 613020 Drive C Mag (horizontal), 50 Nm
- 613019 Drive T Mag (horizontal), 70 Nm
- 613016 Drive S Mag (horizontal), 90 Nm
- 613021 Drive TF Mag (horizontal), 70 Nm, 45 km/h



- 613403 design cover Brose Drive Mag
 - right and left side
 - incl. screws



- 613405 design cover for MTB Fully
 - right and left side
 - incl. two black screws A2



DISPLAY AND ACCESSORIES

- 613056 LCD colour display ›Allround‹



- 613058 operating unit ›Remote‹ with LED display



- 613060 Display ›City‹ optional supplement to control unit ›Remote‹ (art. 613058)



- 613044 Y-cable connection between art. 613060 and art. 613058



ART.-NO. DESCRIPTION

ACCESSORIES AND MOUNTING PARTS

- 613078 harness BN21L



- 613061 Connector between motor and display, internal wake up, 1,300 mm



- 613083 Montage Kit Brose Mag horizontal 3 nuts, 1 washer, 1 screw



- 613045 Gear Sensor, Mag-series



- 613092 speed sensor



- 613091 spoke magnet



- 613097 ring nut for spider



LIGHT CABLES

- 613090 for head light, 1,226 mm



- 613080 cable for rear light and brake light Brose Drive Mag, 1,400 mm



COVERPLUGS FOR MOTOR

- 613099 for lighting connector



- 613086 for gear sensor



E-BIKE KIT PARTS GEN1

ART.-NO. DESCRIPTION

E-BIKE FRAMES TREKKING W

- raw finish
- external charging connection
- for semi-integrated head set,
- 1 1/8" → 1.5"
- for seat stays with Ø 31.6 mm

Trekking W

613603 size S, 45 cm

613604 size M, 50 cm

613605 size L, 55 cm

MTB, 27,5", Boost

613622 size L, 50 cm, 20"



DERAILLEUR HANGER

for City Wave, Trekking and MTB frames

613609 for rear derailleur, for drive side

613610 for internal gear hub, for drive side

613614 for non-drive side, with brake mount
PM 160 mm

613800 "MTB" type, for thru axle 12 mm,
aluminium, silver anodised

613801 thread insert for derailleur hanger "MTB"
type (art. 613800), aluminium, black



AKKU UND AKKUZUBEHÖR

613200 linkage battery, 504 Wh

613810 lock with 2 keys

613093 cable harness for linkage battery

881987 screw for cable harness
(art. 613093), stainless steel, M3 x 8 mm
(per cable harness 8 screws are needed)

613230 travel charger 2A, charging time 7 hours

613231 speed charger 4A, charging time 3.5 hours



ART.-NO. DESCRIPTION

BROSE MOTORS AND ACCESSORIES

613015 Drive C, 50 Nm

613018 Drive T, 70 Nm

613010 Drive S, 90 Nm

613012 Drive TF (S-Pedelec, 45 km/h), 90 Nm



motor cover

613400 design cover, right side, incl. screws

613401 design cover, left side, incl. screws

613402 Brose Logo button



ACCESSORIES AND MOUNTING PARTS

essential

613055 display cable (connection to the motor)

613096 motor mounting bolts (set 3 pcs), M6
120

613085 optional advice
100 gearsensor for internal gearhubs



LIGHT CABLES

613087 for rear light, 1,323 mm, Brose Drive Alu
120



ART.-NO. DESCRIPTION

E-BIKE FRAMES ›MTB FULLY‹

- full carbon frame
- external charging connection
- 27,5", 29" or Mixed-Wheels-Setup possible
- All Mountain/Trail (140 mm) or SUV (130 mm)
- for semi-integrated head set, 1½" → 1,5"
- continuous short seat tubes for max. dropper-hub
- disc post mount
- suitable for Brose 630 Wh Akku



666130 size S/M, 40 cm

666131 size M/L, 42 cm

666132 size L/XL, 48 cm

660089 DERAILLEUR HANGER

50 ›Universal Derailleur Hanger‹



613408 FENDER MOUNTING BRIDGE

300

ACCESSORIES AND MOUNTING PARTS

666101 Cable guide, single hole

666102 Cable guide, double hole

666104 Cable guide, double, one hole and one cable guide (for Brose display cable), left side

666114 Cable guide, double, one hole and one cable guide (for Brose display cable), right side



610006 CHAINSTAY PROTECTION FOR E-FULLY

500

- material: **silicone rubber**
- size: approx. **316 x 52 x 47 mm**
- OEM



THRU AXLE

- **OLD 148 mm**
- allen screw fixation
- thread pitch: 1.0 mm
- thread length: 12.7 mm
- with inner thread M5 x P0.8 on both sides
- OEM



321130 • M12 x length **186 mm**
• flat axle

321131 • M12 x length **170 mm**
• cone axle

613409 Kickstand Adapter

150



ART.-NO. DESCRIPTION

BATTERY AND ACCESSORIES

610056 e-bike battery, 630 Wh



610005 subframe incl. lock and wiring harness for battery art. 610056



881984 fixing screw M6x1.0x10 mm for Brose sub-frame art. 610005



613082 charging socket, external port in frame



613234 quick charger, 4A



613235 power cable for quick charger art. 613234, EU plug



613239 power cable for quick charger art. 613234, UK plug



SERVICE PARTS BROSE

SERVICE PARTS BROSE

613298 diagnostic tool for linkage battery (art. 613200)



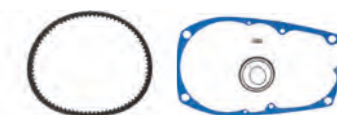
613299 connecting cable from diagnostic tool (art. 613298) to the battery



613084 e-Bike service adapter for connection of the Brose e-bike system with the PC (between motor and display)



613047 belt service kit for Drive Alu



613048 belt service kit for Drive Mag



613204 Li-Ion battery
• DT external bottle type
• universally suitable for Brose
• identical to BMZ
• 36 Volt, 11 Ah, 396 Wh



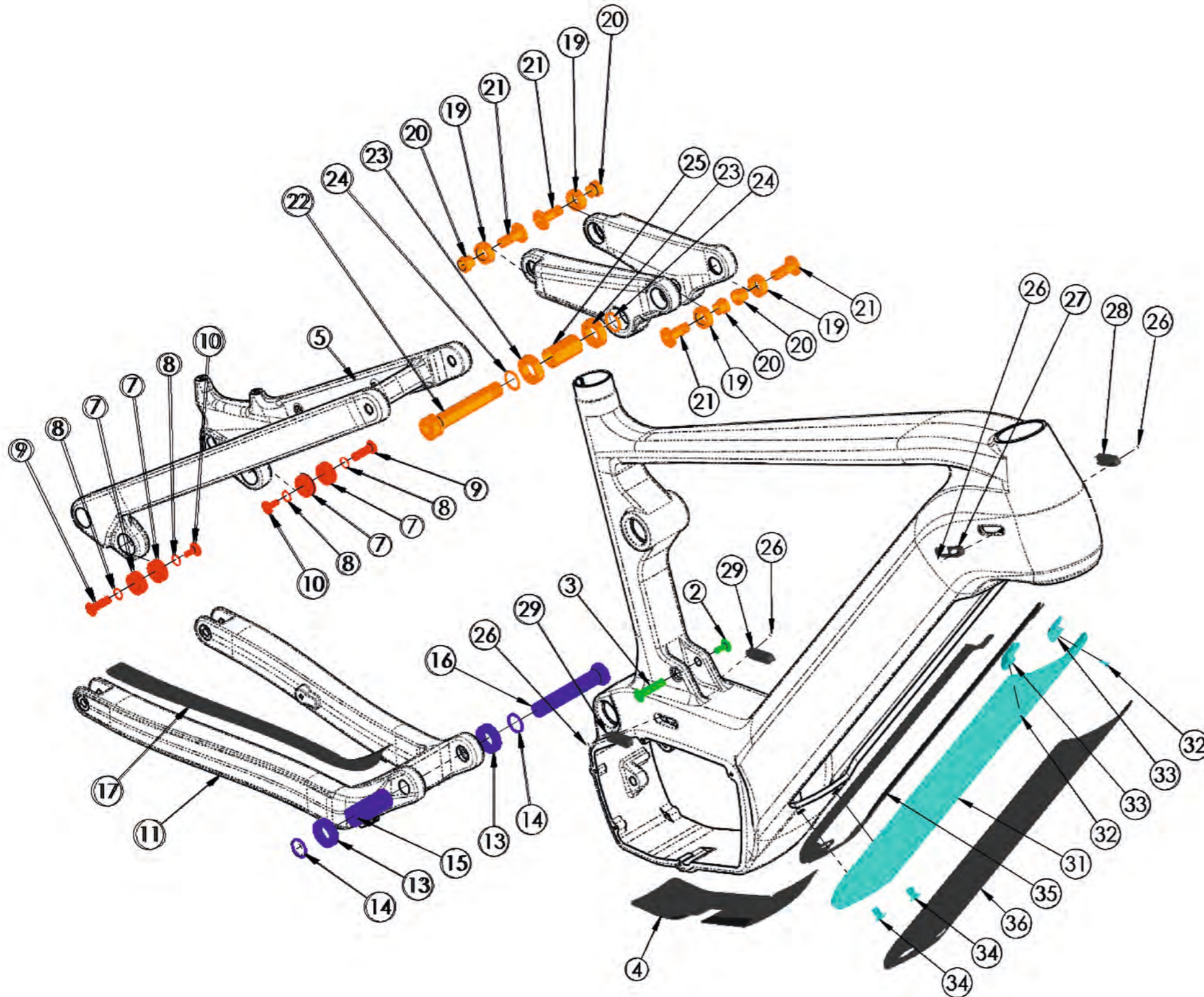
613203 Li-Ion battery
• DT external bottle type
• universally suitable for Brose
• identical to BMZ
• 36 Volt, 17.5 Ah, 630 Wh



613238 docking station, accessory kit for Li-Ion battery art. 613203/4



E-BIKE KIT PARTS FULLY MMC.F140.c



ITEM NO.	MS ART.NO.	PLM_ItemName	QTY.
1	666106	SHOCK MOUNT KIT	1
2		SHOCK-MOUNT-SCREW	1
3		SHOCK-MOUNT-AXLE	1
4	610009	MOTOR BRACKET PROTECTION STICKER	1
5	666112	SEAT STAYS	1
6	666109	HORST LINK KIT	2
7		BALL-BEARING_22x8x7	2
8		WASHER_8.2x12x1.5	2
9		HORST-LINK-AXLE	1
10		SHOCK-MOUNT-SCREW	1
11	666113	CHAIN STAYS	1
12	666107	MAIN PIVOT KIT	1
13		BALL-BEARING_28x15x7	2
14		WASHER_15x20x2	2
15		BEARING-BUSHING_15x45	1
16		AXLE_M15x78_HEX8	1
17	610006	CHAIN STAY PROTECTION STICKER	1
18	666108	ROCKER LINKAGE KIT	1
19		BALL-BEARING_21x12x7	1
20		BEARING-BUSHING_15x10	1
21		BEARING-SCREW_M10x1x23	1
22		AXLE-ROCKER_M15X78_HEX8	1
23		BALL-BEARING_28x15x7	2
24		WASHER_15x20x2	2
25		BEARING-BUSHING_15x35	1
26		SCREW CABLE GUIDE M3 X 6	4
27	666104	CABLE GUIDE FOR 2 CABLES, SLOTTED	1
28	666102	CABLE GUIDE FOR 2 CABLES	1
29	666101	CABLE GUIDE FOR 1 CABLE	2
30	666111	BATTERY COVER KIT	1
31		BAT-COVER_MS-BROSE-AM-CF	1
32		screw_M3x8	2
33		BATTERY-COVER-HOOK	2
34		screw_M8x1.25x10	2
35	610007	BATTERY-COVER-STICKER_INSIDE	1
36	610008	BATTERY-COVER-STICKER_OUTSIDE	1

ART.-NO. DESCRIPTION

E-BIKE FRAMES ›URBAN LIGHT‹

- raw finish
- for semi-integrated head set, 1 1/8"
- for seat stays with Ø 31.6 mm

City Wave

- 660374** size S, 46 cm
- 660375** size M, 52 cm
- 660376** size L, 58 cm



Urban/City/Gravel

- 660370** size S, 46 cm
- 660371** size M, 50 cm
- 660372** size L, 54 cm
- 660373** size XL, 58 cm



391552 E-BIKE / TREKKING FORK 28"

- **aluminum 7005**
- CrMo Ahead steerer 285 mm, 1 1/8"
- for disc brake mount (PM)
- with eyelets for carrier
- with cable guide boss
- bearing area Ø 50 mm
- OLD 100 mm
- raw
- max. tire width approx. 68 mm
- installation height 430 mm
- suitable for frames art. 660370, ...



ART.-NO. DESCRIPTION

BATTERY AND ACCESSORIES

- 613293** battery for "Urban Light", 36 V, 360 Wh



- 613295** charger, 2 A, EU



- 613292** charger, 2 A, UK



BAFANG MOTORS AND ACCESSORIES

- 610532 Motor H300**
 OLD: 145 mm
 36 V / 250 W
 weight: 3 kg
 torque: 32 Nm
 size/diameter: 136 mm
 sprocket holder: screw ring
 cable length: 250 mm



- 610530 Motor H400B**
 OLD: 145 mm
 36 V / 250 W
 weight: ca. 3.3 kg
 torque: 45 Nm
 size/diameter: 158.5 mm
 sprocket holder: cassette sprocket
 cable length: 250 mm



- 610531 Motor H600**
 OLD: 146.25 mm
 36 V / 250 W
 weight: 2 kg
 torque: 42 Nm
 size/diameter: 105 mm
 sprocket holder: cassette sprocket
 cable length: 250 mm



ART.-NO. DESCRIPTION

DISPLAY AND ACCESSORIES

610513 LCD Display C11



610514 LCD Display C240



610522 LCD Display C260



610523 LED Display E161



610516 connecting cable display controller, 1,200 mm



ART.-NO. DESCRIPTION

ACCESSORIES AND MOUNTING PARTS

610515 Controller



610502 bottom bracket with torque sensor



610519 bottom bracket with Speedsensor, 126 mm axle



610533 spider (for bottom bracket with torque sensor art. 610502), BCD: 104 mm



352602 crank left, aluminium, 170 mm (for bottom bracket art. 610502)



352603 crank left, aluminium, 170 mm (for bottom bracket art. 610502)

LIGHT CABLES

610517 for head light, 1,200 mm



610518 for rear light, 1,200 mm

SERVICE PARTS

613294 battery connector



613627 downtube cover suitable for frames art. 660374/5/6



660321 downtube cover suitable for frames art. 660370/1/2/3



613296 charger socket



613297 on/off button



610521 service adapter



SERVICE

Service is our top priority

A product is only as good as its service. We are fully committed to sustainable customer satisfaction. Our E-Mobility Service Center is characterized by a quick response and competent specialists.

Messingschlager offers comprehensive services for OEM customers as well as dealers. We maintain a service and test center, which can be reached via

a free hotline. We keep all important spare parts in stock, which can be with you within a few working days. In many countries we are continuously building so-called service satellites in order to be able to respond even faster on site with shipping spare parts and batteries. In this way we also guarantee the training of international dealers.

In addition, we offer regular training courses for both manufacturers and specialist dealers in order to pass on system knowledge. This opens up the possibility of quickly identifying and eliminating sources of error. In order to be able to react promptly in service cases, we also carry all tools necessary for the service.



Service achievements

- Documentation of the work steps for effective and time-saving assembly
- Training for assembly regarding cable laying and connection of the system
- Training in assembly for EOL test (End of Line) and installation of the appropriate, customer-specific firmware
- OEM hotline in the E-Mobility Service Center
- Stocking of all crucial original spare parts and delivery within 48 hours
- General training on the system and all necessary diagnostic solutions for all components (motor, display, battery)
- Fast response to questions within 24 hours
- Supply of all tools necessary for the OEM
- Web-based OEM & specialist dealer service tool

CONTACT

In order to be able to make the process of a complaint more efficient, please note the following points:

For questions or complaints about our E-Bike Solutions, please contact our E-Mobility Service Center by email or phone.

E-Mail: e-mobility@messingschlager.com

Hotline: +49 9544 / 9444 – 45

Our E-Mobility team can be reached free of charge from **Monday to Friday from 8:00 a.m. to 4:00 p.m.**

You can find more information about our range and service on our website: www.messingschlager.com/de/ebike



BUILD YOUR OWN E-BIKE EVERYTHING FROM A SINGLE SOURCE



ALL FRAME CATEGORIES



MULTIPLE BATTERY OPTIONS



brose

BAFANG

DRIVE TRAIN BRANDS



DISPLAY SOLUTIONS

PartFinder

“*Load-oriented and harmonious products for e-bikes & bikes!*”





Load-oriented products - every e-bike needs suitable parts

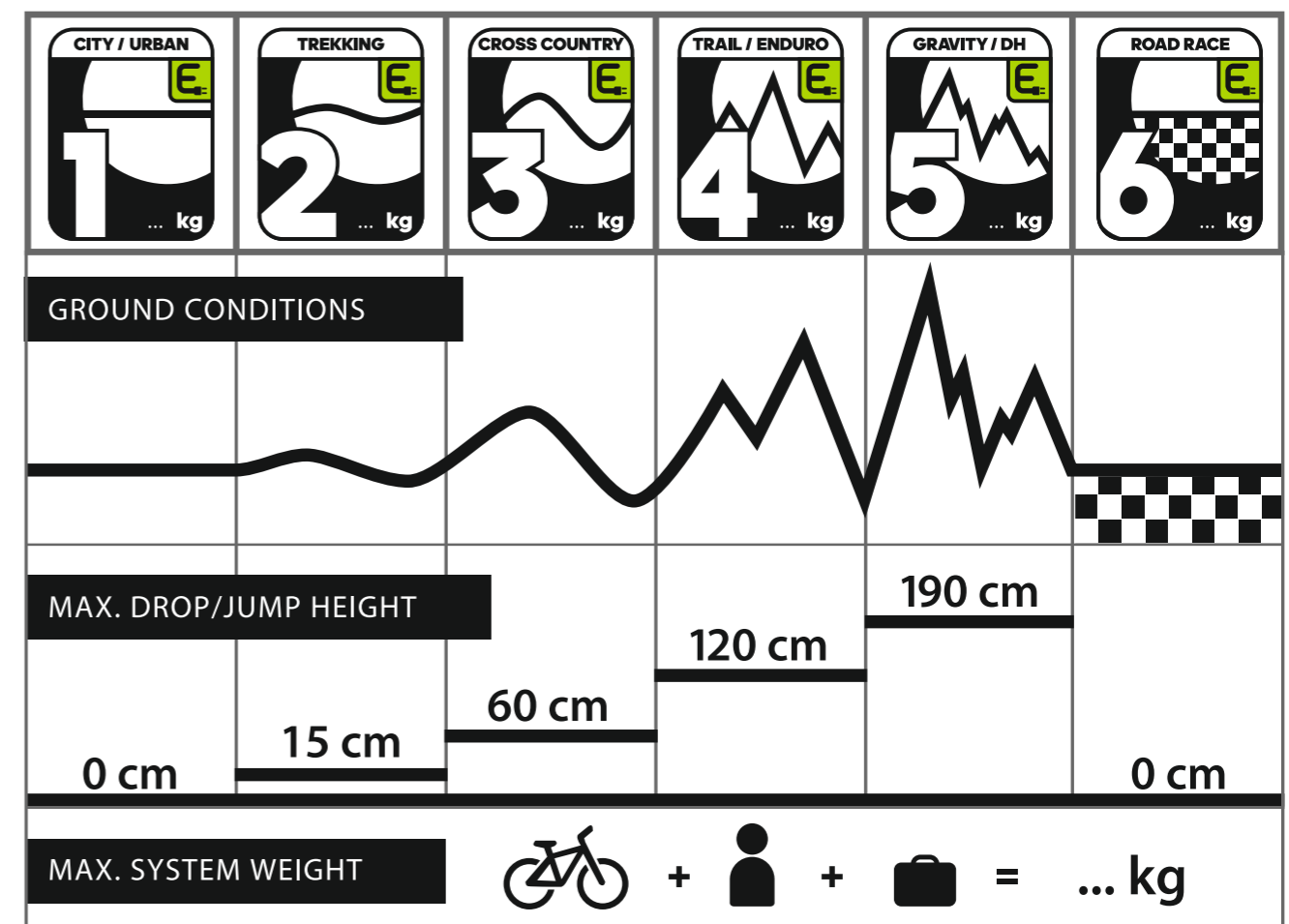
The Messingschlager PartFinder is a classification matrix for bicycles / e-bikes and their accessories. It classifies bicycles according to the respective areas of use based on ASTM F2043-13 or DIN EN 17406 (still in the drafting stage). In addition, it provides quality standards and test reports for increased loads or areas of application that go beyond the current ISO4210 / EN15194 standards. These were developed in cooperation with independent, accredited testing institutes.



The Messingschlager PartFinder is intended to help dealers and end consumers to find their way around the extensive range of accessories and to select the right, tested component for their respective needs.

Bicycles and thus the built-in components are developed and constructed for a specific area of application and the loads to be expected here. The forces that act here vary depending on the area of application and system weight (bike + rider + luggage). The right component can be found quickly and easily with the help of the pictograms.

PartFinder overview



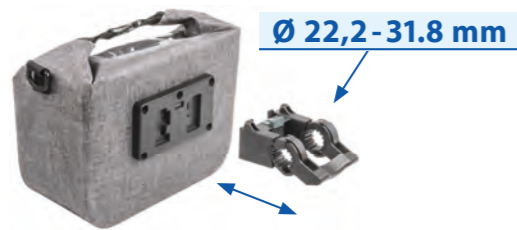
HANDLEBAR BAG / BRACKET / SADDLE



ART.-NO.
UVP

122882 HANDLEBAR BAG
SUBURBAN FRONT

- 100 % waterproof and dustproof
- with heat-sealed joints
- very stable and durable despite low weight
- roll cover for individual size adjustment
- waterproof, transparent window for operating a touch display
- integrated side pockets with heat-sealed zipper
- stable 2-point clip-on bracket with easy (de-)mounting, suitable for handlebar Ø 22.2 - 31.8 mm (art. 122709)
- absolutely anti-twist
- additional internal stiffness
- with shoulder strap
- with reflective print
- size approx. 13 x 28 x 21 cm (L x W x H)
- volume approx. 7 litres



122736 REPLACEMENT/SECOND BRACKET FOR E-BIKE CENTER DISPLAYS

19,90 € for art. 431515, 121920, 122882, on M-Wave eurohole card



122715 HANDLEBAR BAG OTTAWA

- 100 % waterproof through heatsealed joints
- extremely tough material
- stable 2-point clip-on bracket (= art. 122713) with easy (de-)mounting, suitable for handlebar Ø 22.0 - 31.8 mm
- anti-twist, also at max. load of 9 kg
- removable inner pocket
- additional internal stiffness
- 2 additional outer net pockets
- with reflex label
- waterproof, detachable and double-sided transparent map pocket
- with shoulder strap
- volume approx. 7 litres



122737 REPLACEMENT/SECOND BRACKET FOR E-BIKE CENTER DISPLAYS

17,90 € for art. 122715, on M-Wave eurohole card



ART.-NO.
UVP

E-BIKE SADDLE
VELO-FIT E1



Always find the right saddle width thanks to our Velo-Fit system.
The new "E1" series now also offers special details for use on e-bikes:

- support by saddle rise with non-slip insert
- recessed grip "I-Carry" for better handling
- Atmos Shape: waterproof and clean cross-over by gluing the upper material to the base shell
- Air Form: the material is softer at the top, harder and denser at the bottom. This gives better long-term seating comfort
- „Arc-Tech“ suspension
- CroMo rails with scale
- on Velo eurohole card



250550 size M:
• L = 270 x W = 145 mm
• optimal for VCZ M (130 - 140 mm)

M

250551 size L:
• L = 270 x W = 160 mm
• optimal for VCZ L (150 - 160 mm)

L

250552 size XL:
• L = 270 x W = 176 mm
• optimal for VCZ XL (170 - 190 mm)

XL

250553 size XXL:
• L = 270 x W = 190 mm
• optimal for VCZ XXL (200 - 230 mm)

XXL



SADDLES

ART.-NO.
UVP DESCRIPTION



244 g

RACING SADDLE
»VELO-FIT ATHLETE BC«

- "Arc-Tech" suspension
- "O-Zone Base Cut"
- very light comfort foam
- seamless surface
- on Velo eurohole card



size S and XL

- 250520 size S:**
- L = 286 x W = 134 mm
 - optimal for VCZ **S** (110 - 120 mm)
 - glass fiber reinforced shell
 - CrMo rails with scale
 - only 244 g

S

- 250521 size M:**
- L = 280 x W = 147 mm
 - optimal for VCZ **M** (130 - 140 mm)
 - only 301 g

M

- 250522 size L:**
- L = 277 x W = 155 mm
 - optimal for VCZ **L** (150 - 160 mm)
 - only 317 g

L

- 250523 size XL:**
- L = 275 x W = 163 mm
 - optimal for VCZ **XL** (170 - 190 mm)
 - only 344 g

XL



RACING SADDLE
»VELO-FIT ATHLETE FC«



248 g

- "Arc-Tech" suspension
- "O-Zone Full Cut"
- very light comfort foam
- almost seamless surface
- on Velo eurohole card



size S and XL

- 250524 size S:**
- L = 286 x W = 134 mm
 - optimal for VCZ **S** (110 - 120 mm)
 - glass fiber reinforced shell
 - CrMo rails with scale
 - only 248 g

S

- 250525 size M:**
- L = 276 x W = 145 mm
 - optimal for VCZ **M** (130 - 140 mm)
 - only 290 g

M

- 250526 size L:**
- L = 276 x W = 152 mm
 - optimal for VCZ **L** (150 - 160 mm)
 - only 317 g

L

- 250527 size XL:**
- L = 277 x W = 163 mm
 - optimal for VCZ **XL** (170 - 190 mm)
 - only 335 g

XL



ART.-NO.
UVP DESCRIPTION



363 g

TREKKING SADDLE
»VELO-FIT TRAVELLER«

- "D2" construction
- "Arc-Tech" suspension
- "O-Zone Base Cut"
- very light comfort foam
- seamless surface
- on Velo eurohole card



- 250528 size M:**
- L = 267 x W = 152 mm
 - optimal for VCZ **M** (130 - 140 mm)
 - only 363 g

M

- 250529 size L:**
- L = 284 x W = 172 mm
 - optimal for VCZ **L** (150 - 160 mm)
 - only 408 g

L

- 250530 size XL:**
- L = 260 x W = 191 mm
 - optimal for VCZ **XL** (170 - 190 mm)
 - only 428 g

XL

- 250531 size XXL:**
- L = 263 x W = 205 mm
 - optimal for VCZ **XXL** (200 - 230 mm)
 - only 451 g

XXL



CITY / COMFORT SADDLE
»VELO-FIT TOWNIE«



566 g

- "D2" construction
- "O-Zone Base Cut"
- very light comfort foam
- elastomer suspension
- on Velo eurohole card



- 250532 size M:**
- L = 270 x W = 180 mm
 - optimal for VCZ **M** (130 - 140 mm)
 - only 566 g

M

- 250533 size L:**
- L = 268 x W = 199 mm
 - optimal for VCZ **L** (150 - 160 mm)
 - only 623 g

L

- 250534 size XL:**
- L = 263 x W = 216 mm
 - optimal for VCZ **XL** (170 - 190 mm)
 - only 719 g

XL

- 250535 size XXL:**
- L = 267 x W = 238 mm
 - optimal for VCZ **XXL** (200 - 230 mm)
 - only 765 g

XXL



SEAT POSTS



ART.-NO.
UVP DESCRIPTION

DROPPER SEAT POST »LEVITATE IN LT« M-WAVE

- clean look through **integrated cable routing**
- aluminium
- **pneumatic quick release, stepless height adjustment** while riding by a **handlebar lever**, with stainless steel cable
- with scale

- length **440 mm**
- height adjustment **0 - 150 mm**

- 252220** Ø 30,9 mm, in M-Wave eurohole box
252222 Ø 31,6 mm, in M-Wave eurohole box
252224 Ø 30,9 mm, OEM
252226 Ø 31,6 mm, OEM

- length **480 mm**
- height adjustment **0 - 170 mm**

- 252221** Ø 30,9 mm, in M-Wave eurohole box
252223 Ø 31,6 mm, in M-Wave eurohole box
252225 Ø 30,9 mm, OEM
252227 Ø 31,6 mm, OEM

209,00 €



DROPPER SEAT POST »LEVITATE IN 2« M-WAVE

- clean look through **integrated cable routing**
- aluminium
- **hydraulic quick release height adjustment** while riding by a **handlebar lever**
- with scale
- OEM

- Ø 27,2 mm
- length: 373 mm
- height adjustment: **0 - 100 mm**

- length: 426 mm
- height adjustment: **0 - 125 mm**

- 252213** Ø 27,2 mm
252214 Ø 30,9 mm
252215 Ø 31,6 mm

129,00 €



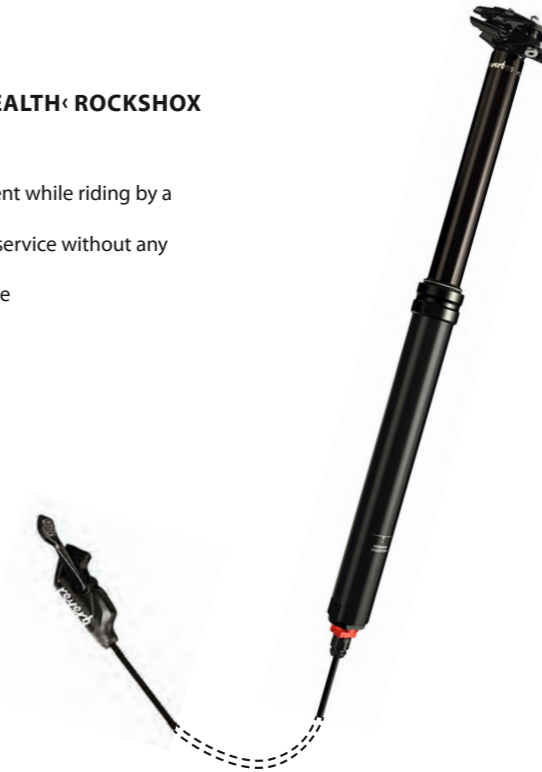
ART.-NO.
UVP DESCRIPTION

DROPPER SEAT POST »REVERB STEALTH« ROCKSHOX

- aluminium
- pneumatic quick release height adjustment while riding by a handlebar lever
- Vent Valve technology for easy handling service without any disassembly of the post
- standard remote, left below or right above
- Ø 31,6 mm

- 250006** • length: 414 mm
 • height adjustment: 0 - 150 mm

- 250007** • length: 467 mm
 • height adjustment: 0 - 175 mm



PARALLELOGRAM SUSPENSION SEAT POST »FOURSPRING« M-WAVE

- **one-piece aluminium** tube with **design protective cover**
- **very sensitive response characteristic** through parallelogram movement (no tilting)
- preload adjustable
- 2-point fixation of the saddle rails, with **angular scale**
- travel: **36 mm** in a circular arc
- length 350 mm
- with scale (height adjustment)
- with original replacement springs recommended up to 85 kg
- optionally convertible to another rider's weight by replacement springs (art. 252178, 252165, 252179)

on **M-Wave Eurohole card**

- 252176** U Ø 27,2 mm

- 252197** U Ø 30,9 mm

- 252177** U Ø 31,6 mm

OEM

- 252180** Ø 27,2 mm

- 252182** Ø 30,9 mm

- 252181** Ø 31,6 mm

119,90 €

REPLACEMENT-/ TUNING-SPRING

- for converting seat post art. 252180-2 to another rider's weight
- in PE bag with sticker

- 252178** U 0 - 70 kg, silver

- 252165** U 85 - 100 kg, black

- 252179** U 100 - 120 kg, green

8,90 €



0 - 120 kg!

SEAT POSTS

ART.-NO.
UVP DESCRIPTION

PARALLELOGRAM SEAT POST ›FOURSPRING VARIO‹ M-WAVE

- 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 **70 to 90 kg**
- optionally convertible to another driver's weight by replacement springs (art. 252187, 252199)

on M-Wave Eurohole card

- 252183 Ø 27,2 mm
- 252196 Ø 30,9 mm
- 252184 Ø 31,6 mm

OEM

- 252185 Ø 27,2 mm
- 252194 Ø 30,9 mm
- 252186 Ø 31,6 mm

84,90 €



Tested by the manufacturer based on ISO 4210



REPLACEMENT-/ TUNING-SPRING

for converting seat post art. 252185/
86/94 to another rider's weight

- 252187 50 - 90 kg, silver
- 252199 90 - 120 kg, black

4,90 €



252198 NEOPRENE PROTECTION COVER FOR PARALLELOGRAM SEATPOSTS ›FOURSPRING COVER‹ M-WAVE

- protects from pinched fingers, weather damage and dirt
- with universal hook and loop fastener
- with reflective material
- suitable for art. 252183 et seq., ...
- on M-Wave eurole card

5,90 €



ART.-NO.
UVP DESCRIPTION

SUSPENSION SEAT POST ›SP-C3‹ M-WAVE

- aluminium
- tolerance adjustable
- length 350 mm
- 40 mm travel
- offset: 8 mm
- preload adjustable
- with scale

on M-Wave Eurohole card

- 252324 U Ø 27,2 mm
- 252325 U Ø 30,9 mm
- 252326 U Ø 31,6 mm

OEM

- 252327 Ø 27,2 mm
- 252328 Ø 30,9 mm
- 252329 Ø 31,6 mm

27,90 €



Tested by the manufacturer based on ISO 4210



SEAT POST ZOOM

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

- 252744 Ø 27,2 mm
- 252715 Ø 30,9 mm
- 252745 Ø 31,6 mm

26,90 €



Tested by the manufacturer based on ISO 4210



SEAT POSTS / BICYCLE MIRRORS

ART.-NO.
UVP

DESCRIPTION



SEAT POST ZOOM

- **single piece** seat post with **aluminium head**
- with scale (height adjustment)
- easy saddle angle adjustable with 2 bolts
- only **254 g** (Ø 27.2 mm)
- length 350 mm
- on Zoom eurohole card



252740 Ø 27,2 mm
U

252741 Ø 31,6 mm
U
24,90 €



Tested by the manufacturer
based on ISO 4210



SEAT POST ›A 350 STRONG‹ M-WAVE

- with **aluminium head**
- easy saddle angle adjustable with 2 bolts
- offset: 15 mm
- length 350 mm



on M-Wave Eurohole card

252831 Ø 27,2 mm
252833 Ø 30,9 mm
252835 Ø 31,6 mm

OEM

252830 Ø 27,2 mm
252832 Ø 30,9 mm
252834 Ø 31,6 mm
14,90 €





ART.-NO.
UVP

DESCRIPTION



BICYCLE MIRROR ›SPY SPACE‹

- 3-dimensionally adjustable
- high definition, antireflective, blast resistant and glare-free genuine glass
- high impact nylon fiber frame
- aluminium clamp Ø 22.2 mm
- very light, only approx. 137 g
- in M-Wave eurohole box

270015
U

for mounting at the **left** side

270016
U
21,90 €

for mounting at the **right** side



270019

›SPY SPACE BAREND‹

24,90 €

for mounting on **left handlebar end**



BICYCLE MIRRORS

ART.-NO.
UVP

DESCRIPTION

270014 BICYCLE MIRROR
›SPY SPACE IN L‹ M-WAVE
24,90 €

- **3-dimensionally adjustable**
- left side mounting
- **high definition, antireflective, blast resistant and glare-free genuine glass**
- high impact **nylon fiber** frame
- approx. Ø 80 mm mirror surface
- suitable for Ø 16-22 mm inner bar diameter
- on M-Wave eurohole card



270071 BICYCLE MIRROR
›SPY SPACE 45 COMPACT‹ M-WAVE
32,90 €

ECE APPROVED

- **ECE approved:** for all class L vehicles which do not have a bodywork surrounding the driver, e. g. **suitable for E-Bikes, S-Pedelecs** up to 45 km/h maximum speed, **mopeds, motorcycles, quads, ...**
- **3-dimensionally adjustable**
- **high definition, antireflective, blast resistant and glare-free genuine glass**
- high impact **nylon fiber** frame
- aluminium clamp Ø 22.2 mm
- only 161 g
- in M-Wave eurohole box



270070 BICYCLE MIRROR
›SPY SPACE 45‹ M-WAVE
19,90 €

ECE APPROVED

- **ECE approved:** for all class L vehicles which do not have a bodywork surrounding the driver, e. g. **suitable for E-Bikes, S-Pedelecs** 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



LINK TO PERFECTION

CHAINS



messingschlag

E-Mobility Solutions

ART.-NO.
UVP DESCRIPTION

- 306102** »e12EPT«
76,90 €
- 12 speed, 1/2" x 11/128"
 - **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
 - **130 links, XL**, extra long for **E-bikes**
 - compatible with **Shimano / Sram MTB / Campagnolo**
 - with MissingLink
 - in KMC box



- 306111** »e11«
64,90 €
- 11 speed, 1/2" x 11/128"
 - **high durability** through **reinforced riveting, higher torsion stability** and **minimalized tolerances**
 - compatible with **Shimano / Sram / Campagnolo**
 - with MissingLink
 - in KMC box



- 306110** »e11 Silver«
54,90 €
- 122 links



- 306115** »e10«
64,90 €
- 10 speed, 1/2" x 11/128"
 - **high durability** through **reinforced pins, higher torsion stability** and **minimalized tolerances**
 - compatible with **Shimano / Sram / Campagnolo**
 - with MissingLink
 - in KMC box



- 306114** »e10 Silver«
49,90 €
- 122 links



ART.-NO.
UVP DESCRIPTION

- 306118** »e9«
54,90 €
- 9 speed, 1/2" x 11/128"
 - compatible with **Shimano / Sram / Campagnolo**
 - **high durability** and **traction** through **reinforced pins** (450 kg)
 - with MissingLink
 - in KMC box



- 306136** »e9 Silver«
44,90 €
- 122 links



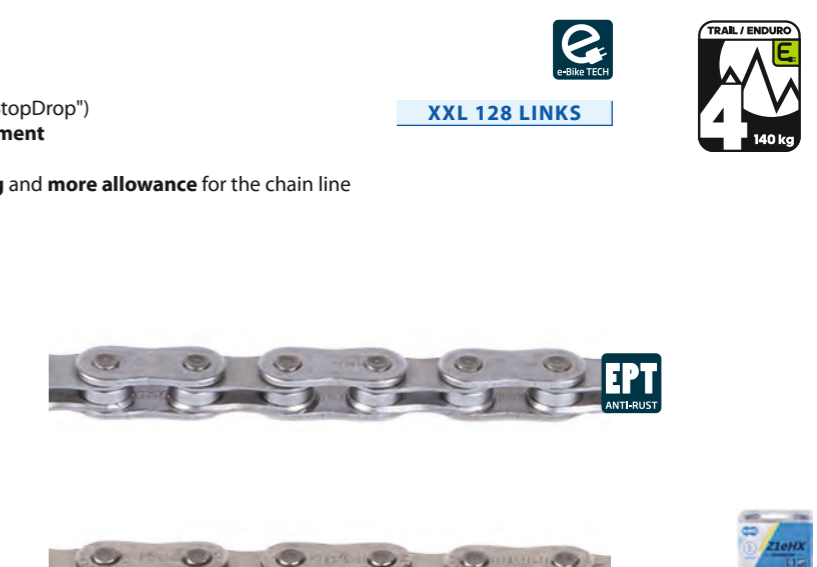
- 306122** »e1 EPT«
39,90 €
- 1 speed, 1/2" x 3/32"
 - **tensile strength 1,000 kg**
 - only **296 g**
 - especially suitable for **high quality gear hubs** like **Rohloff**
 - with „**ECO ProTeQ**“ for an **extreme rust resistant, smooth** and **environmentally friendly** cover
 - **low wear** by **XX-SP** bolt
 - no falling down due to **higher inner plates**
 - with MissingLink
 - in KMC box



- 306123** 130 links
44,90 €



- 306134** »Z1eHX Narrow«
26,90 €
- 1 speed, 1/2" x 3/32"
 - 8 mm
 - no falling down due to **higher inner plates** ("StopDrop")
 - **highest durability** by **HX stretch proof treatment**
 - **mushroomed pins**
 - **chamfered inner plates** for **smoother running** and **more allowance** for the chain line
 - **tensile strength 1,050 kg**
 - with MissingLink
 - in KMC box



- 306131** »Z1eHX Narrow«
21,90 €
- 112 links



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 KMC

standard powered by KMC



LINK TO PERFECTION

ART.-NO. UVP DESCRIPTION

306125 >E101 EPT<

69,90 €

- 1 speed, 1/2" x 1/8"
- 112 links
- with "ECO ProTeQ" for an **extreme 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 performance significantly over 10,000 km**
- chainring and chain easily retrofitted at lots of bicycles
- with MissingLink
- in KMC box



10,000km+

powered by KMC



306127 >Z1 eHX WIDE<

21,90 €

- 1 speed, 1/2" x 1/8"
- 112 links
- 9,2 mm
- **high durability** through **reinforced pins** and **chain links**
- no falling down due to **higher inner plates** ("StopDrop")
- hardened bolts
- **chamfered inner plates** for **smoother running** and **more allowance** for the chain line
- with MissingLink
- in KMC box



303731 >Z1 WIDE EPT<

21,90 €

- 1 speed, 1/2" x 1/8"
- 8,6 mm
- with "ECO ProTeQ" for an **extreme rust resistant, smooth and environmentally friendly** cover
- no falling down due to **higher inner plates** ("StopDrop")
- hardened bolts
- **chamfered inner plates** for **smoother running** and **more allowance** for the chain line
- with MissingLink
- in KMC box



XXL 128 LINKS



ART.-NO. UVP DESCRIPTION

FOR WORKSHOPS AND FACTORIES

50 METER REEL AND DISPLAY

For professional dealers with workshop, KMC now offers some chain models on workshop reels. The key models, from single speed up to 12 speed chains, are available packed on 50 meter reels. Due to the large variety of chain lengths, especially for e-bikes, ready cut to length chains will produce a lot of rejects: The 50 meter reel offers the advantage of **flexibility**, you can shorten to the **desired length** with **less waste and lower cost**. Of course, KMC will include the right **connecting links** for secure and easy assembly.

CHAIN REEL HOLDER

- stable steel rack
- magnetic bracket for the end of chains
- with holder for box with 40 connecting links



Art. 309900

- 309900** • for **3 x 50 meter** chain reels
- **mobile** and height adjustable

- 309901** • for **1 x 50 meter** chain reel
- for **mounting on wall** or with (table) foot art. 309902

- 309902** (table) foot for art. 309901



Art. 309901

Art. 309902

FACTORY-CHAINS, CHAINS

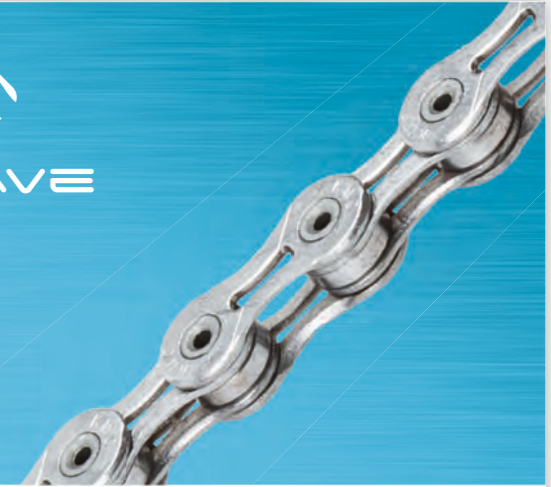


messingschlager
E-Mobility Solutions

ART.-NO. UVP	DESCRIPTION			
	FOR WORKSHOPS / 50 meter incl. MissingLinks			
306113	›e11 EPT‹ incl. 40 MissingLinks 11NR EPT		11 Speed e-Bike TECH EPT ANTI-RUST	TRAIL / ENDURO 4 E 140 kg
306116	›e10 EPT‹ incl. 40 MissingLinks 10NR EPT		10 Speed e-Bike TECH EPT ANTI-RUST	TRAIL / ENDURO 4 E 140 kg
306119	›e9 EPT‹ incl. 40 MissingLinks 9NR EPT		9 Speed e-Bike TECH EPT ANTI-RUST	TRAIL / ENDURO 4 E 140 kg
306124	›e1 EPT‹ incl. 40 MissingLinks e1NR EPT		1 Speed e-Bike TECH EPT ANTI-RUST 1/2 X 3/32", NARROW	TRAIL / ENDURO 4 E 140 kg
306135	›Z1eHX NARROW EPT‹ incl. 40 MissingLinks Z1eHX Narrow NR EPT		e-Bike TECH EPT ANTI-RUST	TRAIL / ENDURO 4 E 140 kg
306132	›Z1eHX NARROW‹ incl. 40 MissingLinks Z1eHX Narrow NR		e-Bike TECH	TRAIL / ENDURO 4 E 140 kg
306130	›Z1eHX WIDE EPT‹ incl. 40 MissingLinks Z1eHX Wide NR EPT		1 Speed e-Bike TECH EPT ANTI-RUST 1/2 X 1/8", WIDE	TREKING / GRAVEL 2 E 140 kg

M-WAVE E-BIKE CHAINS

With the new e-bike chains for 1-11 speed systems, M-Wave manages to create durable and affordable e-bike chains. But that's not all: There are also special e-bike chains for tough use and are guaranteed by certification in category 4 up to 140 kg. Of course, they are suitable for all common e-bike engines. Also new in the assortment: a complete range of anti rust chains that fit all gear systems from single speed to 11 speed.



ART.-NO. UVP	DESCRIPTION		
	›ELEVEN SPEED‹ M-WAVE	11 Speed	TRAIL / ENDURO 4 E 140 kg
	<ul style="list-style-type: none"> for 11 speed 1/2" x 11/128" 116 links with connecting link in M-Wave box 		
301941 U 41,90 €	›Elevenspeed E‹		
	<ul style="list-style-type: none"> particularly suitable for e-bikes longer durability due to reinforcements for Brose, Bosch, Shimano, Bafang, ... drives grey 		
	›TENSPEED‹ M-WAVE	10 Speed	TRAIL / ENDURO 4 E 140 kg
	<ul style="list-style-type: none"> for 10 speed 1/2" x 11/128" 116 links with connecting link in M-Wave box 		
301940 U 36,90 €	›Tenspeed E‹		
	<ul style="list-style-type: none"> particularly suitable for e-bikes longer durability due to reinforcements for Brose, Bosch, Shimano, Bafang, ... drives grey 		
	›SINGLESPEED‹ M-WAVE	1 Speed	TRAIL / ENDURO 4 E 140 kg
	<ul style="list-style-type: none"> for 1 speed also suitable for internal gear hubs 112 links with connecting link in M-Wave single box 		
301945 U 17,90 €	›Singlespeed E‹		
	<ul style="list-style-type: none"> particularly suitable for e-bikes longer durability due to reinforcements for Brose, Bosch, Shimano, Bafang, ... drives 1/2" x 3/32" silver 		

CLIPLESS PEDALS / COMBINATION PEDALS



E-Mobility Solutions



ART.-NO. UVP

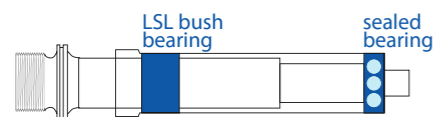
311847 CLIPLESS PEDAL ›E-PM215+‹ EXUSTAR

79,90 €



300 g

- forged **aluminium** body
- **sealed, CNC machined CrMo** axle
- with **sealed bearing** and **high quality bush bearing**
- with steel click mechanism
- only **300 g**/pair
- with replaceable dust cap (art. 311879)
- with cleat set
- compatible with **Shimano** system (no original Shimano spare part)
- in Exustar box



Tested by the manufacturer based on ISO 4210

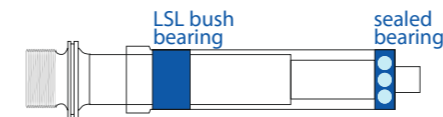


ART.-NO. UVP

312150 PLATFORM COMBINATION PEDAL ›FREEDOM CLIPLESS‹ M-WAVE

64,90 €

- **CNC machined aluminium** body
- **CrMo** axle
- with **sealed bearing** and **high quality bush bearing**
- mounting also possible with allen key
- with cleat set
- compatible with **Shimano** system (no original Shimano spare part)
- with **exchangeable** pins at one side
- tread surface: approx. 92 x 102 mm (L x W)
- only 437 g
- on M-Wave eurohole card



PINS

Tested by the manufacturer based on ISO 4210



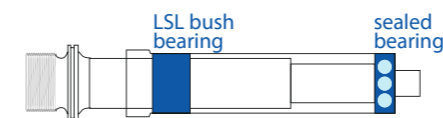
311811 COMBINATION PEDAL ›E-PM86‹ EXUSTAR

59,90 €



319 g

- **double function pedals:** useable on both sides for normal (sport-)shoes and for **clipless shoes**
- **aluminium** body and cage
- silver, **CNC machined CrMo** axle
- with **sealed bearing** and **high quality bush bearing**
- with detachable **reflectors**
- with **German approval number**
- with cleat set (also suitable for Shimano pedals)
- pedal also suitable for **Shimano cleats** (no original Shimano spare part)
- only **319 g**/pair (without reflectors)
- tread surface: 66 x 83 mm (L x W)
- on Exustar eurohole card



Tested by the manufacturer based on ISO 4210



311099 COMBINATION PEDAL ›PEASY‹ M-WAVE

44,90 €



319 g

- **double function pedals:** useable on both sides for normal (sport-)shoes and for clipless shoes
- **aluminium** body and cage
- silver **CNC machined CrMo** axle
- with **sealed bearings**
- only **319 g**/pair (without reflectors)
- with detachable **reflectors**
- with **German approval number**
- with cleat set (also suitable for Shimano pedals)
- pedal also suitable for Shimano cleats (no original Shimano spare part)
- tread surface: 63 x 80 mm (L x W)
- on M-Wave eurohole card



Tested by the manufacturer based on ISO 4210



NON-SLIP PEDALS / PEDALS



ART.-NO.
UVP DESCRIPTION

311079 PEDAL VP

16,90 €

- aluminium cage
- black CrMo axle
- mountable on the right and on the left
- with reflectors
- with German approval number
- tread surface: 65 x 82 mm (L x W)
- on VP eurohole card



Tested by the manufacturer based on ISO 4210



312013 NON-SLIP PEDAL ›STEADY FLAT 2 AL‹ M-WAVE

19,90 €

- aluminium body
- Boron axle
- with high-quality polymer plain bearing
- with German approval number
- with non-slip rubber layer
- with reflector
- tread surface: 82 x 96 mm (L x W)
- mounting also possible with allen key
- on M-Wave eurohole card



Tested by the manufacturer based on ISO 4210



NON-SLIP PEDAL ›SAND‹ VP

- black plastic body with sandlike non-slip layer
- anatomically shaped concave supporting surface
- with reflectors
- with German approval number
- tread surface: 88 x 100 mm (L x W)
- on VP eurohole card



SANDLIKE SURFACE



ANATOMIC



Tested by the manufacturer according Zedler "Advanced Plus Standard"

Tested by the manufacturer based on ISO 4210



- 313176 U**
- CrMo axle
 - with sealed bearing
- 34,90 €

- 311048**
- boron axle
 - with ball bearing
- 23,90 €

ART.-NO.
UVP DESCRIPTION

NON-SLIP PEDAL ›STEADY FLAT‹ M-WAVE

- plastic body with sandlike non-slip layer
- boron axle
- with high-quality polymer plain bearing
- with German approval number
- with reflectors
- mounting also possible with allen key
- tread surface: 86 x 96 mm (L x W)



SANDLIKE SURFACE

311523 on M-Wave eurohole card

- 311503 OEM
- 12,90 €



NON-SLIP PEDAL ›STEADY BEACH‹ M-WAVE

- black plastic body with double non-slip layer - sandlike surface - high-low knobs
- boron axle
- anatomically shaped concave supporting surface
- with reflectors
- with German approval number
- mounting also possible with allen key
- tread surface: 89 x 97 mm (L x W)



SANDLIKE SURFACE

HIGH-LOW KNOBS

311502 U on M-Wave eurohole card

ANATOMIC



- 311500 OEM
- 9,90 €



NON-SLIP PEDAL VP

- plastic body
- boron axle
- with high-quality polymer plain bearing
- with non-slip rubber layer
- with reflectors
- with German approval number
- tread surface: 81 x 93 mm (L x W)
- on VP eurohole card



Tested by the manufacturer based on ISO 4210



NON-SLIP PEDALS / PEDALS

ART.-NO.
UVP DESCRIPTION

NON-SLIP PEDAL STeady FLAT 2 M-WAVE

- non-slip profile
- plastic body
- boron axle
- with high-quality polymer plain bearing
- mounting also possible with allen key
- with reflectors
- with german approval number
- tread surface: 84 x 93 mm (L x W)



312011 on M-Wave eurohole card

312010 OEM

6,90 €



FLAT PEDAL FREEDOM SL M-WAVE

- CNC machined aluminium body
- CNC machined CrMo axle
- with sealed bearing
- mounting also possible with allen key
- with interchangeable pins
- based on 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

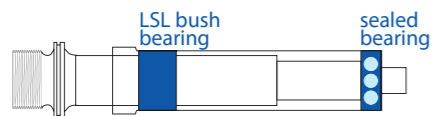


• 313340 U black

• 313341 U titan grey
41,90 €



16 mm



Tested by the manufacturer based on ISO 4210



FLAT PEDAL

- aluminium body
- tread surface: 87 x 94 mm (L x W)
- OEM

311348 1/16" axle, black

311332 U 1/16" axle, silver

311330 U 1/2" axle, silver
7,90 €

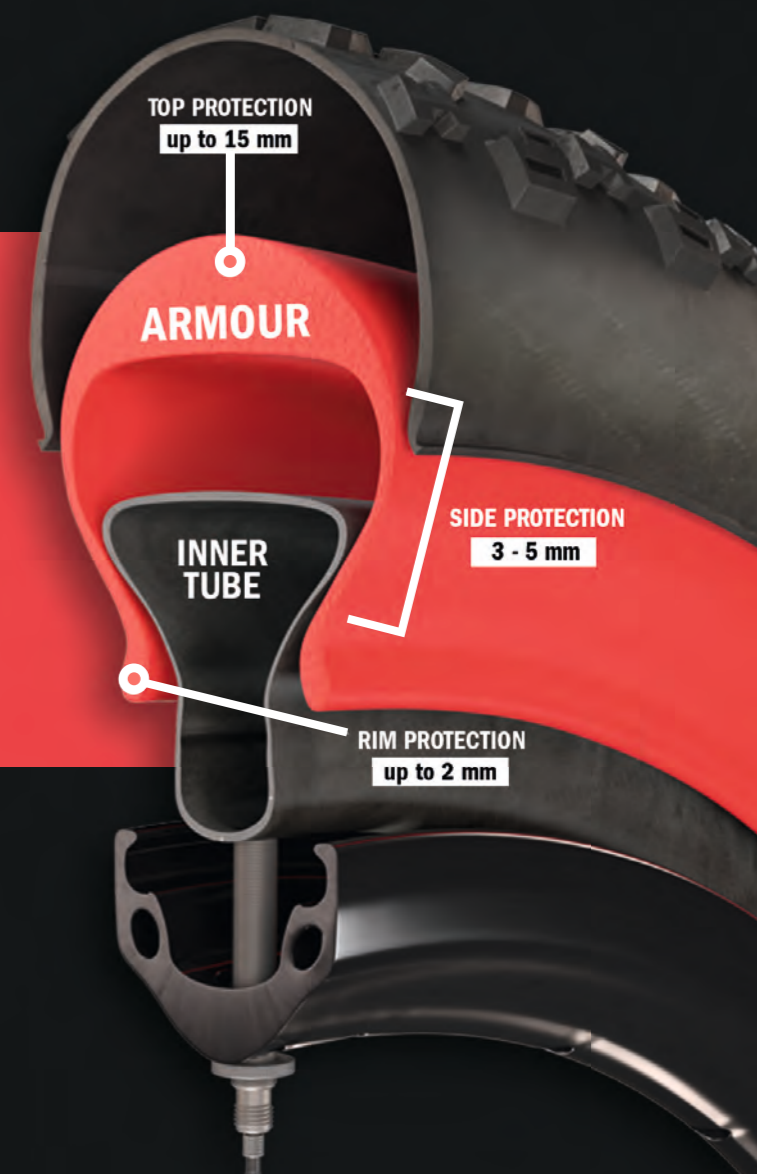


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TANNUS ARMOUR™

THE FIRST ALL-ROUND PUNCTURE PROTECTION –
IDEAL FOR E-BIKES AND BIKE SHARING!

- ⊕ Very light thanks to the patented Aither 1.1. Polymer foam technology
- ⊕ Easy to assemble and reusable
- ⊕ Extremely long durability
- ⊕ With emergency running properties
- ⊕ Ideal for e-bikes, city, trekking, MTB and bike sharing



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HUBS / BOTTLE CAGES

ART.-NO.
UVP DESCRIPTION

326572 REAR DISC BRAKE HUB ›D932SB-B12-S66S-115‹
199,00 €

- **reinforced hub** to conform to the increased demands of **e-bikes**
- for **12 mm thru axle**
- 32 hole
- with **4 sealed bearings**
- compatible with Shimano 8-11 speed (MTB+Road)
- cassette body with **2 x 6 pawls** and ratchet ring with **48 teeth** for fast power transmission nearly **without delay**
- replacement cassette body Sram XD Drive, E-Type, art. 326282
- OLD: **148 mm**
- PCD: 62 mm, FTF: 61.6 mm
A: 35.6 mm, B: 50.8 mm
- in Novatec box



REAR DISC BRAKE HUB ›D462SB‹

- **Boost**
- 32 hole
- for **12 mm thru axle**
- **5 sealed bearings**
- cassette body with 3 pawls
- OLD: **148 mm**
- PCD: 62/58 mm, FTF: 62.5 mm, A: 35.2 mm, B: 50.3 mm



326140 • conversion kit to **Microsplines** cassette body art. 326268
• replacement cassette body art. 326274
• convertible to Sram XX1 and X01 through cassette body art. 326275
• in Novatec box



326184 • **reinforced hub** to conform to the increased demands of **e-bikes**
• for 8-11 (MTB) speed Shimano
• replacement cassette body art. 326274
• convertible to Sram XX1 and X01 through cassette body art. 326275
• 463 g
• OEM

REAR DISC BRAKE HUB ›D042SB‹

- with **4 sealed bearings**
- 492 g (w/o quick release)
- for 8-11 speed MTB and 8-10 speed road Shimano cassette
- OLD: 135 mm
- PCD: 58 mm, FTF: 58.4 mm, A: 31.5 mm, B: 45.1 mm
- OEM



326221 36 hole

326223 32 hole

64,90 €

ART.-NO.
UVP DESCRIPTION

340720 BOTTLE CAGE ›BC VARIO SIDE‹

8,90 €



- **mounting adapter** enables the bottle to be placed and removed from the **left** and the **right side**. Therefore particularly suitable for **e-bike frame geometries** with limited space
- **high quality plastic**
- only 44 g
- **easy placement and removal** of the bottle by to the outside rounded brims
- universal fitting
- incl. fixing screws
- on M-Wave eurohole card



BOTTLE CAGE

- especially suitable for **e-bike frame geometries** with limited space
- outward chamfered edges **make it easier** to put in the bottle
- with mounting screws
- on M-Wave eurohole card

340051 ›BC 29 Side‹

U



- bottle can be easily put in and taken away, also **from the side**
- only 29 g



340053 ›BC 26 Side‹

U



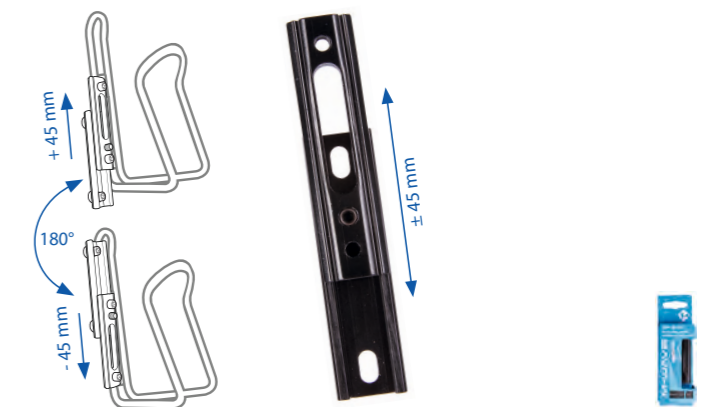
- bottle can be easily put in and taken away, also **diagonal from the side**
- only 26 g

340013 BOTTLE CAGE ADAPTER ›ADA SLIDE‹

U

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‹

U

8,90 €

- 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 (art. 340042)
- 1 set = 1 pair of adapters, 1 pair of Velcro straps
- on M-Wave eurohole card



CHAINRINGS / DIRECT MOUNTS



M-WAVE
by SAMCX

messingschlager
E-Mobility Solutions

Drive durability of e-bikes with mid-mounted engine

e101 EPT / KMC sprockets wide (1/2 x 1/8") 10.000 km +

e1 EPT / KMC sprockets narrow 3.500 km +

standard

powered by

powered by

- + significant **increase of lifetime** of the drive unit through the **matched combination of chain and chainring**
- + **guaranteed durability of more than 10,000 km**

CHAINRINGS

- CrMo
- black

BOSCH ✓

SHIMANO ✓

NUVINCI ✓



teeth	e-bike engines generation 2		Shimano circuit hubs			Enviolo circuit hubs
	1/2 x 1/8"	1/2 x 11/128"	1/2 x 1/8"	1/2 x 3/32"		1/2 x 3/32"
	AM	AM	AM	AM	OEM	OEM
15		350079				
17				350087	350090	
18	350075	350083	350094	350088	350091	
19	350076	350084	350095	350089	350092	
20	350077	350085	350096	350097	350093	350080
21	350078	350086				
UVP	13,90 €	12,90 €	12,90 €	12,90 €	12,90 €	12,90 €

Art. 350076



Art. 350083



Art. 350087



Art. 350091



Art. 350094



Art. 350080



KETTENBLÄTTER

- black
- BCD 104 mm
- for Brose, Bosch, Shimano, ...
- for 1/2 x 3/32" & 11/128" chains
- 0 offset



32-40 teeth



42-46 teeth



Art. 083291

teeth	steel		steel / narrow wide		aluminium / narrow wide	
	AM	OEM	AM	OEM	AM	OEM
32			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		
UVP	9,90 €	9,90 €	24,90 €	24,90 €	36,90 €	36,90 €

DIRECT MOUNTS

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



Bosch GEN 2



Bosch GEN 3



Bosch GEN 4

teeth	Bosch* GEN 2		Bosch* GEN 3 chainline 47 mm		Bosch* GEN 4 chainline 50 mm / narrow wide	
	AM	OEM	AM	OEM	AM	OEM
15	356264	356263				
16	356283	356281				
17	356284	356282				
34					356252	356210
36					356253	356211
38			356249	356207	356254	356212
40			356250	356208		
42			356251	356209		
UVP	4,90 €	4,90 €	9,90 €	9,90 €	24,90 €	24,90 €

Other sizes and designs available on request

*no original Bosch spare part



Art. 083290

CHAIN GUARD / ACCESSORIES / SPIDER

CHAIN GUARD

- aluminium
- black anodized
- bolt circle 104 mm

Chain Guard 104



Chain Guard 104SL

Chain Guard 104CNC

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		
UVP	12,90 €	12,90 €	13,90 €	13,90 €	20,90 €	20,90 €

CHAINRING BOLTS

AM (4 pieces on M-Wave tag)

OEM

M8 x 0,75 x L8,5 mm (usage without chainguard)	356304	356300
M8 x 0,75 x L9,5 mm (usage without chainguard)	356305	356301
M8 x 0,75 x L10,5 mm (usage with and without chainguard)	356306	356302
M8 x 0,75 x L12,5 mm (usage with chainguard)	356307	356303
UVP	2,99 € / set	0,69 € / pc



Art. 083293

CHAINRING NUTS

AM (4 pieces on M-Wave tag)

OEM

M8 x 0,75 x L5,5 mm (usage without chainguard)	356310	356308
M8 x 0,75 x L8,5 mm (usage with chainguard)	356311	356309
UVP	2,99 € / set	0,69 € / pc



Art. 083293

ART.-NO. UVP DESCRIPTION

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 chainwheel sets without chain guard, in PE bag

356293 set of 4x screw M8 x 10.5 mm and 4x nut M8 x 8.5 mm, for chainwheel sets with chain guard, in PE bag
4,99 €



Other sizes and designs available on request.

ART.-NO. UVP DESCRIPTION

SPIDER FOR E-BIKE ENGINES OF BROSE*

- aluminium
- black anodized
- BCD 104 mm

for chainline 45 mm

613524 with chainguard mounting

613502 without chainguard mounting

for chainline 47 mm

613522 with chainguard mounting

613523 without chainguard mounting

for chainline 49 mm

613520 with chainguard mounting

613521 without chainguard mounting

19,90 €



613501 • for chainline 52 mm

- e. g. for MTB Linkage battery frames with boost standard (art. 613620-2)
- without chainguard mounting

19,90 €

SPIDER FOR E-BIKE ENGINES OF BOSCH*

- aluminium
- without chainguard mounting
- black anodized
- BCD 104 mm

613513 for BOSCH GEN3 system, chainline 47 mm

14,90 €

613514 for BOSCH GEN4 system, chainline 50 mm

24,90 €



SPIDER FOR E-BIKE ENGINES OF SHIMANO*

- aluminium
- with chainguard mounting
- black anodized
- BCD 104 mm

613511 for Shimano E6000, chainline 47 mm

613510 for Shimano E5000, chainline 47 mm

19,90 €

613512 for Shimano E6100, chainline 47 mm

613508 for Shimano E7000 / 8000, chainline 50 mm

613509 for Shimano E7000 / 8000, chainline 53 mm

24,90 €






*no original Shimano / Bosch / Brose spare part

CRANKS ACCESSORIES FOR CHAINWHEEL SETS

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

• aluminium, black

length	left		right		offset	
	AM	OEM	AM	OEM		
SHAPE 1						
170	356108	356127	356109	356126	0 mm	
175	356110	356125	356111	356124		
170	356112	356123	356113	356122	5 mm	
175	356114	356121	356115	356120		
UVP	12,90 €	11,90 €	12,90 €	11,90 €		
170				356167	13 mm	
UVP				14,90 €		



SHAPE 1




SHAPE 2



ART. 083295

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

• aluminium, black


length	left		right		offset	
	AM	OEM	AM	OEM		
160	356140	356131	356141	356129	5 mm	
170	356142	356130	356143	356128		
UVP	12,90 €	11,90 €	12,90 €	11,90 €		

SHAPE 1



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

• aluminium, black
• 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		
UVP	14,90 €	14,90 €	14,90 €	14,90 €		

SHAPE 3



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

*no original Shimano / Bosch / Brose spare part

ART.-NO. UVP DESCRIPTION

CRANK

- aluminium
- 170 mm
- OEM

offset: 0 mm

352602 left, black

352603 right, black

9,90 €



KURBELARM

- aluminium
- 170 mm
- OEM

offset: 20 mm

352661 left, silver polished

352662 left, black

352667 right, black

8,90 €



BOLTS

352639

1,90 €

- suitable for **Bosch** and **Brose E-bike** cranks (no original Bosch/Brose spare part)
- also suitable for **ISIS** bottom bracket with M15 thread
- 10 pieces in PE bag



BOSCH ✓

BROSE ✓

ISIS ✓

352629

2,49 €

- suitable for **Brose E-bike** cranks (no original Brose spare part)
- also suitable for **ISIS** bottom bracket with M15 thread
- 20 pieces in PE bag



CHAIN GUARD

- for **Brose Motor Drive S + C + T + TF**
- made of **aluminium**
- black
- OEM

352625 42 - 44 teeth

352626 46 - 48 teeth

11,90 €



BROSE ✓

BRACKET FOR CHAIN GUARD

- for **Brose Motor Drive S + C + T + TF**
- with 2 **angle brackets**
- black
- incl. mounting screws
- OEM

352627 suitable for art. 352625 (42 - 44 teeth)

352629 suitable for art. 352626 (46 - 48 teeth)

5,90 €



ANGLE BRACKET

352628

0,99 €

- for fixing the chain guard at the seat stay or at the drop out
- made of **aluminium**
- suitable for art. 352625/6
- black
- incl. mounting material
- OEM



ART.-NO.
UVP DESCRIPTION

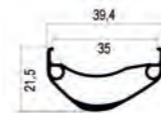
MTB DISC RIM ›4.35‹

- stainless steel eyelets
- asymmetric profile
- 35 mm inner width
- tubeless ready
- only 608 g
- 32 hole
- black
- for FV
- max. load capacity 140 kg

381802 28"/29" (Ø 622 mm), ERD: 594 mm

381800 27,5"/650B (Ø 584 mm), ERD: 574 mm

44,90 €



380467 ENDURO DISC RIM ›4.30‹ M-WAVE

44,90 €

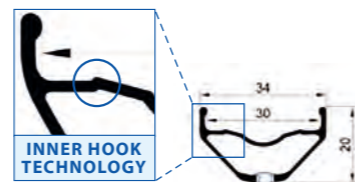


560 g

- 28"/29" (Ø 622 mm)
- made of extremely stiff 6005 aluminium
- stainless steel eyelets
- 30 mm inner width
- tubeless ready
- **Inner-Hook-Technology: a specially constructed rim profile** keeps the tire longer on the rim also in case of pressure loss
- only 560 g
- 32 hole
- ERD: 598.3 mm
- black anodised
- for FV
- max. load capacity 140 kg



PLUS



381801 DISC RIM ›2.23‹

44,90 €



465 g

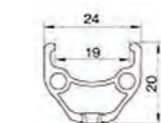
- 28"/29" (Ø 622 mm)
- stainless steel eyelets
- 23 mm inner width
- tubeless ready
- only 465 g
- 32 hole
- ERD: 601 mm
- black
- for FV
- max. load capacity 140 kg



380466 DISC RIM ›2.19‹ M-WAVE

22,90 €

- 28"/29"
- made of extremely stiff 6005 aluminium
- stainless steel eyelets
- 32 hole
- 19 mm inner width
- for AV/FV/DV
- black anodised
- ERD: 597.7 mm



WHEEL SETS MADE BY MESSINGSCHLAGER

- "Made in Germany"
- attractive price
- custom-built configurations and standard wheel sets (permanently on stock)
- 3 x centering (height tolerance max. 0.4 mm, lateral tolerance max. 0.5 mm) and 2 x flexing
- **Boost, Superboost and Downhill!**

We are happy to advise you on wheels for e-bikes, too!



REMERX

16" - 29" aluminium and steel rims
(max. 30 mm rim width and height)
mounting of rim tape on request



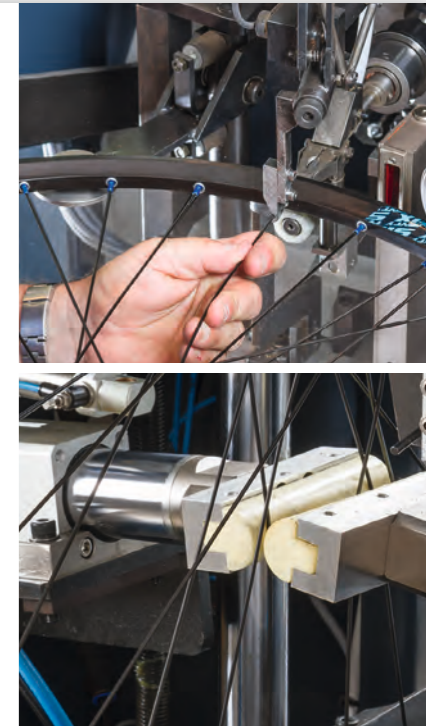
NOVATEC

hub modifications on request (e.g. cassette body alterations, modification of 4 in 1 hubs to other specifications, ...), max. 160 mm axle length



CnSPOKE

all 2 mm spokes (except Aero, Carbon spokes and spokes with straight pull) and 14G nipples



ART.-NO.
UVP DESCRIPTION

WHEEL SET 29" ›4.30 E-MTB‹

- rims: M-Wave, Enduro, (art. 380467), 32 hole, black, for disc brakes, tubeless ready
- spokes: CnSpoke, stainless, silver
- nipples: CnSpoke, brass, silver
- incl. rim tape (art. 519206)

388700 front wheel

129,90 € hub: Novatec 15 x 110 mm boost standard (art. 326137)

388701 rear wheel

169,90 € hub: Novatec 12 x 148 mm boost standard (art. 326184), for 8-11 speed Shimano cassette (MTB)



WHEEL SET 28" ›2.19 TREKKING‹

- rims: M-Wave, (art. 380466), 32 hole, black, for disc brakes
- spokes: CnSpoke, stainless, silver
- nipples: CnSpoke, brass, silver
- incl. rim tape (art. 519342)

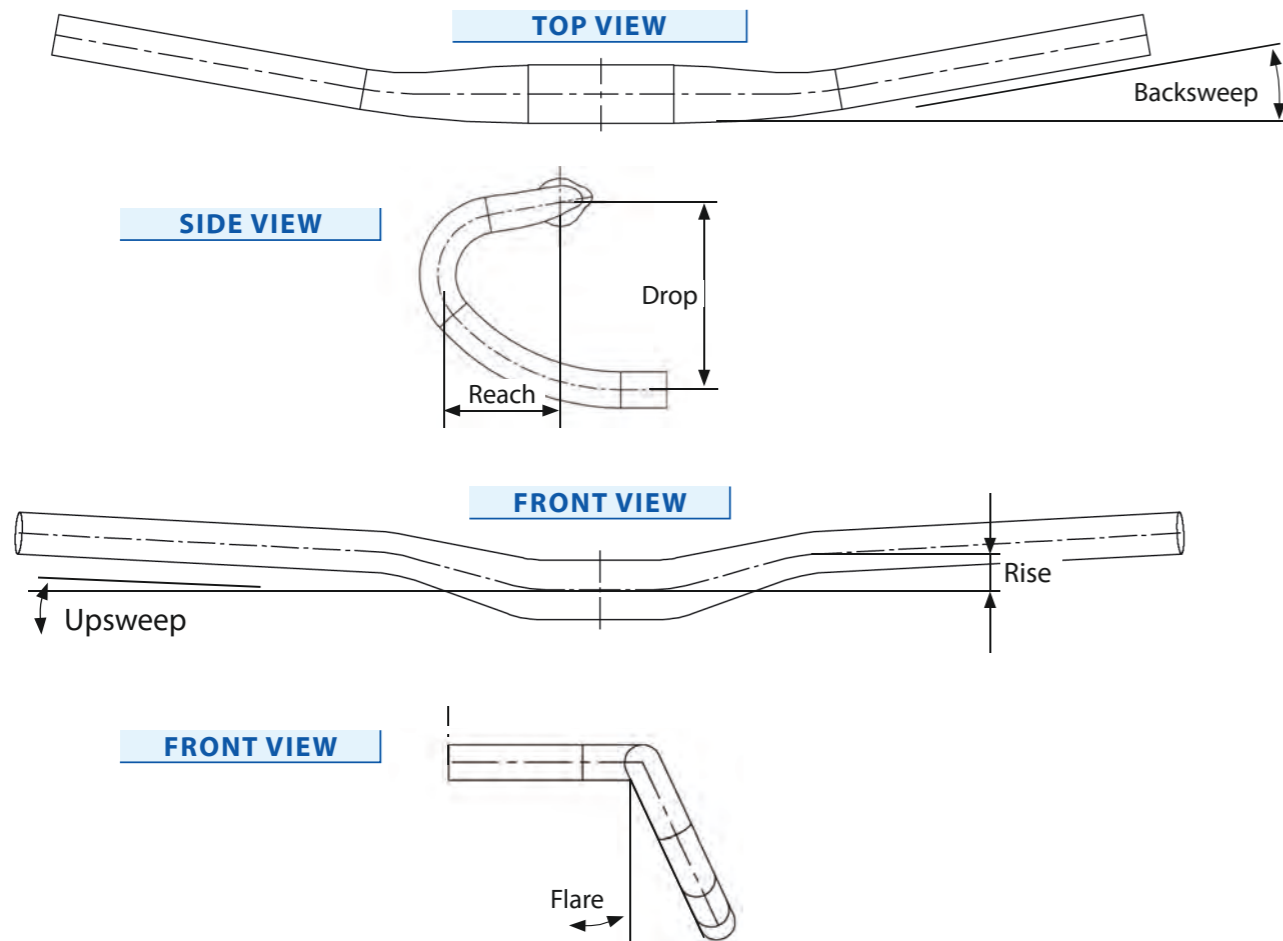
388621 front wheel

89,90 € hub: Novatec 5 x 100 mm (art. 326222)

388622 rear wheel

119,90 € hub: Novatec 5 x 135 mm (art. 326223), for 8-11 speed Shimano cassette (MTB)





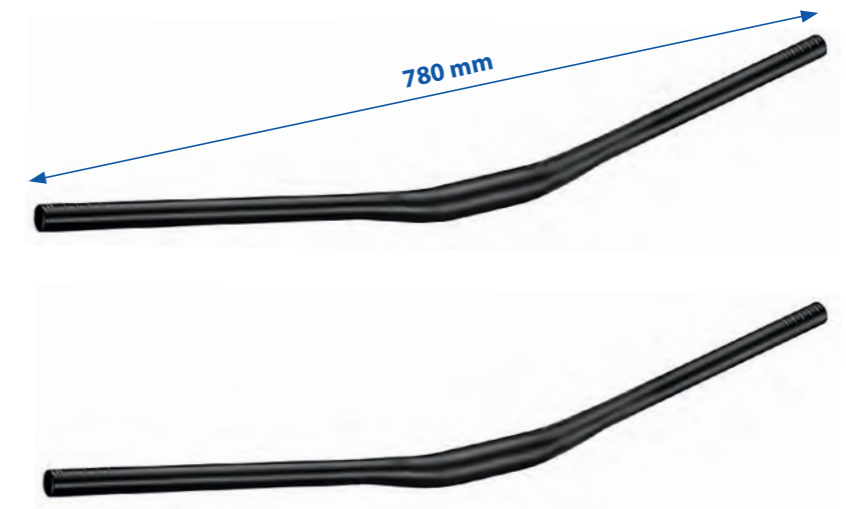
ART.-NO. UVP DESCRIPTION

**MTB RISE HANDLEBAR
HB-M4.1 M-WAVE**

- aluminium
- double butted
- 780 mm
- matt black
- bar center Ø 31.8 mm
- 7° backsweep
- with scale in the middle and at the sides

403225 on M-Wave eurohole card
403227 OEM

403226 on M-Wave eurohole card
403228 OEM
49,90 €



Tested by the manufacturer based on ISO 4210



ART.-NO. UVP DESCRIPTION

**MTB HANDLEBAR
HB-M3.1 M-WAVE**

- aluminium
- butted
- 780 mm
- matt black
- bar center Ø 31.8 mm
- 9° backsweep
- 0° upsweep
- rise 5 mm
- with scale in the middle and at the sides

401516 on M-Wave eurohole card
401517 OEM
18,90 €



Tested by the manufacturer based on ISO 4210



**MTB RISE HANDLEBAR
HB-M3.2 M-WAVE**

- aluminium
- double butted
- matt black
- bar center Ø 31.8 mm
- 9° backsweep
- 3° upsweep
- rise 20 mm
- with scale in the middle and at the sides

780 mm
401518 on M-Wave eurohole card
401519 OEM

680 mm
401529 on M-Wave eurohole card
401524 OEM
18,90 €



Tested by the manufacturer based on ISO 4210



STEMS



ART.-NO.
UVP DESCRIPTION

ADJUSTABLE HANDLE STEM M-WAVE

- aluminium
- black
- adjustable from 0°- 90°
- for 1 1/8" (25.4 mm)
- clamp Ø 31.8 mm
- shaft length 180 mm



90/180 mm

404014 on M-Wave eurohole card

404016 OEM

21,90 €

110/180 mm

404015 on M-Wave eurohole card

404017 OEM

21,90 €



Tested by the manufacturer based on ISO 4210



ADJUSTABLE AHEAD HANDLE STEM M-WAVE

- tested based on DIN EN 15194 and also based on the higher standard of the class 2 up to 140 kg

- aluminium
- adjustable from 0°- 90°
- clamp for Ø 31.8 mm
- 1 1/8" (28.6 mm)
- matt black



length 90 mm

• 400319 on M-Wave eurohole card

• 400317 OEM

21,90 €

length 110 mm

• 400320 on M-Wave eurohole card

• 400318 OEM

21,90 €



Tested by the manufacturer based on DIN EN 15194



ART.-NO.
UVP DESCRIPTION

ADJUSTABLE AHEAD HANDLE STEM ZOOM

- aluminium, 3D forged
- adjustable from 0°- 60°
- 1 1/8" (28.6 mm)
- matt black/silver
- 267 g (for 105/70 mm)
- OEM

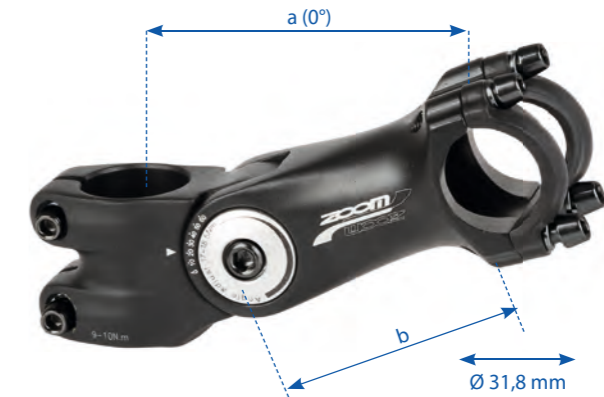


two-part clamp for Ø 31.8 mm

404160 length a = 105 mm/ b = 70 mm

404162 length a = 125 mm/ b = 90 mm

23,90 €



Tested by the manufacturer based on ISO 4210

AHEAD HANDLE STEM ›ST-M4.1‹ M-WAVE

- aluminium, 3D forged
- 1 1/8" (28.6 mm)
- 0°
- stack height: 43 mm
- clamp for Ø 31.8
- matt black

on M-Wave eurohole card

400447 35 mm

400448 50 mm

OEM

400449 35 mm

400450 50 mm

34,90 €



Tested by the manufacturer based on ISO 4210



AHEAD HANDLE STEM ›ST-M4.2‹ M-WAVE

- aluminium 3D forged
- 1 1/8" (28.6 mm)
- 0°
- stack height: 36 mm
- clamp for Ø 31.8 mm
- matt black

on M-Wave eurohole card

400466 35 mm

400467 50 mm

OEM

400468 35 mm

400469 50 mm

25,90 €



Tested by the manufacturer based on ISO 4210



STEMS / BELLS

ART.-NO.
UVP DESCRIPTION

**AHEAD HANDLE STEM
»ST-M3.1« M-WAVE**

- aluminium 3D forged
- 1 1/8" (28.6 mm)
- clamp for Ø 31.8 mm
- from 113 g
- matt black



7°
on M-Wave eurohole card

404520 60 mm



404522 90 mm

404524 100 mm



404526 110 mm

OEM

404521 60 mm

404523 90 mm

404525 100 mm

404527 110 mm

19,90 €



Tested by the manufacturer based on ISO 4210



»ST-M3.2« M-WAVE

35°
on M-Wave eurohole card

404351 60 mm



404353 80 mm



404355 100 mm



404357 120 mm



OEM

404350 60 mm

404352 80 mm

404354 100 mm

404356 120 mm

19,90 €



Tested by the manufacturer based on ISO 4210



ART.-NO.
UVP DESCRIPTION

**AHEAD HANDLE STEM
»ST-M3.3« M-WAVE**

- aluminium, 3D forged
- 1 1/8" (28.6 mm)
- 7°
- clamp for Ø 25.4 mm
- matt black



on M-Wave eurohole card

404400 60 mm

404401 90 mm

404402 105 mm



OEM

404403 60 mm

404404 90 mm

404405 105 mm

18,90 €



Tested by the manufacturer based on ISO 4210



**COPPER BELL
»BELLA C-YELL« M-WAVE**

- very loud and long lasting sound (100 dB)
- Ø 30 mm
- incl. 3M rubber inlay
- in M-Wave eurohole box

420451 • black
• approved for e-bikes according to DIN 33946

420450 U silver
11,90 €



420052 **MINI BELL**

- aluminium
- Ø 35 mm
- tested according to DIN 33946 and therefore approved for e-bikes
- up to 92 db
- lever 360° turnable, with click function
- OEM



according to DIN 33946

ART.-NO.
UVP DESCRIPTION

SIDE STAND M-WAVE

- aluminium
- extra robust design
- **adjustable** from 24" - 29"
- especially **suitable for e-bikes**
- with **stable safety foot**
- incl. mounting material
- for assembling at the chain stay

›COLUMN-E2‹

- **universally suitable** for hole distance **40 mm and 18 mm**
- with 2x M6 **stainless steel** mounting screws



430849 OEM

430850 on M-Wave eurohole card

18,90 €

›COLUMN-E1‹ M-WAVE

- **suitable** for hole distance **18 mm**
- anti-rotation slot
- with 2x M6 **stainless steel** mounting screws and nuts



430853 OEM

430854 on M-Wave eurohole card

17,90 €

• 430925 SIDE STAND

- **robust** design for **e-bikes**, ...
- for mounting at the **chain stay**, universally suitable for hole distance **40 and 18 mm**
- with 2x M6 **stainless steel** washers and nuts
- **aluminium**
- **adjustable without tools**
- for **24" - 29"**
- with **safety foot**
- incl. mounting material
- OEM



14,90 €

ART.-NO.
UVP DESCRIPTION

430706 SIDE STAND ›STRONG F‹

22,90 €

- **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



SIDE STAND ›COLUMN-C1‹ M-WAVE

- **aluminium**
- **adjustable** from 24" - 29"
- extra robust design
- especially **suitable for e-bikes**
- with **stable safety foot**
- for assembling behind the B.B. tube (between the chain stays)
- with counter plate



430734 OEM

430736 on M-Wave eurohole card

16,90 €

• 430724 SIDE STAND

9,90 €

- **aluminium**
- **adjustable** from 24" - 28"
- robust design
- **suitable for e-bikes**
- with **safety foot**
- for assembling behind the B.B. tube (between the chain stays)
- without counter plate
- OEM



430960 DOUBLE LEG STAND ›HEAVY DUTY‹

39,90 €

- the leg on the **chain side** folds to the other side: thus there is no **space problem** on the chain side
- **aluminium**
- for mounting behind the B.B.-tube (between the chain stays)
- **adjustable** from **24" - 29"**
- with safety feet
- incl. mounting screws and **aluminium** counter plate
- OEM



BICYCLE LIFT -/HANGER E-BIKE HEAD LAMPS



LITEMOVE

messingschlager
E-Mobility Solutions

ART.-NO.
UVP

DESCRIPTION

430098 BICYCLE LIFT ›BIKE LIFT STRONG‹ M-WAVE

U

39,90 €

- 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



- E-BIKE ✓
- 57 KG ✓

430217 BICYCLE DEPOT WALL HANGER ›COLLECTOR‹ M-WAVE

U

34,90 €

- also approved for **e-bikes** up to **40 kg**
- for bikes, bike carriers, ski, ...
- with **helmet, ... depot**
- very **solid** and **loadable**
- two arms with plastic **protection cover**
- **foldable**
- with screws and plugs
- with M-Wave eurohole card



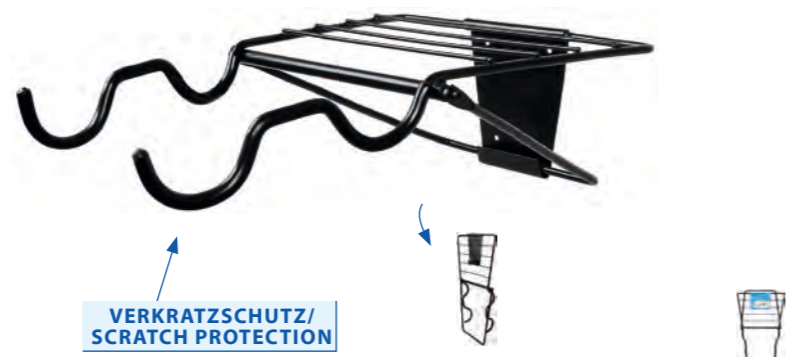
E-BIKE / 40 KG
APPROVED

430215 BICYCLE DEPOT WALL HANGER ›COLLECTOR HD‹ M-WAVE

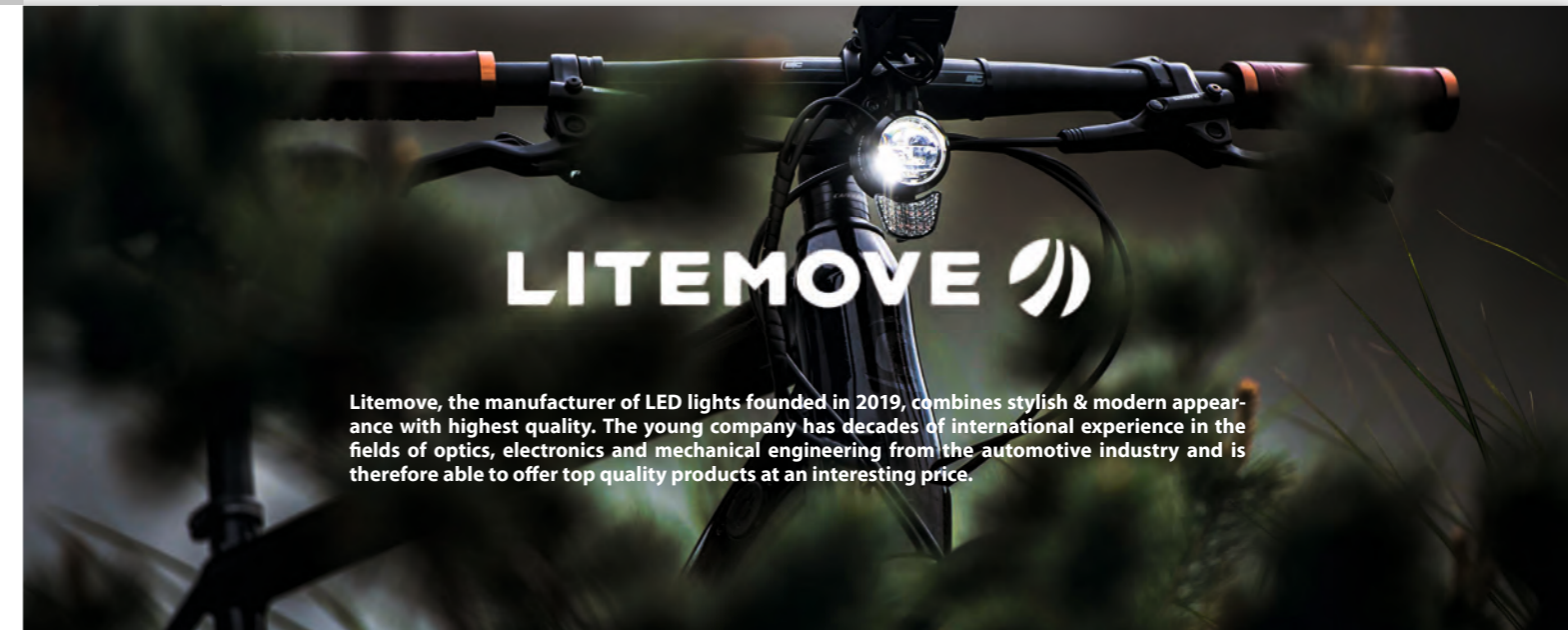
U

29,90 €

- stable wall hanger
- **approved for up to 2 e-bikes** with a total of up to **70 kg**
- hooks with plastic protection cover
- for bikes, bike carriers, ski, ...
- with helmet, ... depot
- **foldable**
- incl. mounting material
- with M-Wave banderole



E-BIKE / 70 KG
APPROVED



LITEMOVE

Litemove, the manufacturer of LED lights founded in 2019, combines stylish & modern appearance with highest quality. The young company has decades of international experience in the fields of optics, electronics and mechanical engineering from the automotive industry and is therefore able to offer top quality products at an interesting price.

ART.-NO.
UVP

DESCRIPTION

461623 E-BIKE HEAD LAMP ›AE-130‹ LITEMOVE

- **High** and **Low Beam**
- **130 / 90 Lux**
- **4 high intensity LEDs**
- 6-16V DC / 6W (low beam) – 13W (high beam)
- with **handlebar remote control**
- **aluminium housing**
- **version for fork mounting (other versions available on request)**
- incl. 140 cm double cable
- with German approval number
- 120 g
- OEM



461610 E-BIKE HEAD LAMP ›SE-150‹ LITEMOVE

- **150 Lux**
- Cones of light 7 m width and 70 m wide
- 4,5-16V DC/7.2W
- **2 high intensity LEDs**
- 6061 **aluminium housing**
- **version for fork mounting (other versions available on request)**
- fork assembly
- with German approval number
- 83 g
- OEM



461611 E-BIKE HEAD LAMP ›SE-110‹ LITEMOVE

- **110 Lux**
- **550 lumen**
- 4.5-16V DC / 5.6W
- **2 high intensity LEDs**
- **aluminium / plastic housing**
- incl. 140 cm double cable
- with German approval number
- 83 g
- OEM



ART.-NO. UVP	DESCRIPTION	
461624	E-BIKE HEAD LAMP ›SE-90‹ LITEMOVE <ul style="list-style-type: none"> • 90 Lux • 4,5-16V DC / 3,2 W • 1 high intensity LED • plastic housing • version for fork mounting (other versions available on request) • incl. 140 cm double cable • with German approval number • 66 g • OEM 	 
461612 44,90 €	E-BIKE SCHEINWERFER ›SE-70‹ LITEMOVE <ul style="list-style-type: none"> • 70 Lux • Cones of light 4,5 m width and 45 m wide • 4,5-16V DC/2.7W • 1 high intensity LED • plastic housing • version for fork mounting (other versions available on request) • fork assembly • with German approval number • 66 g • OEM 	 
461617 4,90 €	RETRO REFLECTOR FOR (E-BIKE) HEAD LAMP ›RF1B‹ LITEMOVE <ul style="list-style-type: none"> • for art. 461610, 461611, 461612, 461624 • with German approval number • OEM 	 
461626	E-BIKE CARRIER REAR LIGHT ›TA-KA‹ LITEMOVE <ul style="list-style-type: none"> • with brake light • 2 red LEDs • 240° wide visibility • chamfered edges to prevent damage • 6-16V DC / 0,4 W – 4,5 W • with German approval number • for 50 mm and 80 mm hole spacing mounting • incl. 140 cm double cable • OEM 	 
461625	E-BIKE CARRIER REAR LIGHT ›TA-KS‹ LITEMOVE <ul style="list-style-type: none"> • like TA-KA, but without brake light • 1 red LED • 6-16V DC / 0,4 W 	

ART.-NO. UVP	DESCRIPTION	
461613 21,90 €	E-BIKE REAR LIGHT ›TS-FD‹ LITEMOVE <ul style="list-style-type: none"> • 4,5-16V DC/0,6W • 4 rote LEDs • with German approval number • 18 g 	 
461620 21,90 €	E-BIKE CARRIER REAR LIGHT ›TS-RR‹ LITEMOVE <ul style="list-style-type: none"> • 4 red LEDs • 4,5-16 V DC / 0,6 W • with German approval number • only 23 g • for 80 mm hole spacing mounting • incl. 140 cm double cable • OEM 	 
461614 16,90 €	BRACKET FOR (E-BIKE) HEAD LAMP ›FK2A‹ LITEMOVE <ul style="list-style-type: none"> • aluminium • for art. 461611, ... • adjustable angle • stainless nuts and bolts • OEM 	
461615 4,90 €	BRACKET FOR (E-BIKE) HEAD LAMP ›FKPL‹ LITEMOVE <ul style="list-style-type: none"> • universal fork bracket • stainless nut and bolt • for art. 461611, ... • OEM 	
461616 4,90 €	BRACKET FOR E-BIKE HEAD LAMP ›STU-3b‹ LITEMOVE <ul style="list-style-type: none"> • for Suntour MOBIE45/25 and MOBIE A32 • for art. 461610, 461611, 461612 	
461618 4,90 €	HALTERUNG FÜR E-BIKE SCHEINWERFER ›STU-4b‹ LITEMOVE <ul style="list-style-type: none"> • for Suntour SF-20-NEX-E25 • for art. 461610, 461611, 461612 	
461628 461629 0,79 €	DOUBLE SELF-SEALING CABLE CONNECTOR <ul style="list-style-type: none"> • no stripping necessary • toolless mounting • grease filled • transparent plastic 	  

E-BIKE HEAD LAMPS

CARRIER REAR LIGHT

SUPERNOVA

SMART

M-WAVE

messingschlager
E-Mobility Solutions

ART.-NO.
UVP

DESCRIPTION

466187 HEAD LAMP ›E3 V521s‹ SUPERNOVA

154,00 €

- **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** and **Bosch** etc.
- optimised for permanent **daytime running light**
- no tail light cable, switch free
- cable length to the accumulator: 1.080 mm
- with **handlebar bracket** for Ø 31,8 mm
- L x B x H: 49 x 41 x 41 mm
- 90 g with bracket
- OEM



466181 REAR LIGHT ›E3 TAIL LIGHT 2‹ SUPERNOVA

44,90 €

- 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 B x H: 37 x 11,5 x 30,6 mm
- OEM



461652 E-BIKE HEAD LAMP ›ELITE 100‹ SMART

39,90 €

- **350 lumen**
- 6 - 15 V DC/4,8 W
- **100 Lux**
- illuminant: **Osram LED**
- high-quality **aluminium** housing
- with **German approval number**
- with double cable, 120 cm
- with adjustable bracket
- with **removable reflector**
- with adapter for mounting without reflector
- in Smart eurohole box



100 LUX LED

350 LUMEN



ART.-NO.
UVP

DESCRIPTION

461651 E-BIKE HEAD LAMP ›D&E‹ SMART

16,90 €

- 6 - 48 V DC/2.1 W
- **with reflector**
- 1 white LED
- **30 Lux**
- with **German approval number**
- with adjustable bracket
- 2 flat plugs integrated in the housing
- on Smart eurohole card



466142 E-BIKE HEAD LAMP ›APOLLON E 100‹ M-WAVE

39,90 €

- **100 Lux**
- 6 - 48 V DC/1.4 W
- high quality **aluminium**/plastic housing
- with **German approval number**
- **removable reflector**
- with **double adjustable bracket**
- with double cable, 10 cm, with flat plug
- on M-Wave eurohole card



100 LUX



466141 E-BIKE HEAD LAMP ›APOLLON E 80‹ M-WAVE

19,90 €

- **80 Lux**
- 6 - 48 V DC/2.4 W
- with **German approval number**
- **removable reflector**
- with **double adjustable bracket**
- with double cable, 10 cm, with flat plug
- on M-Wave eurohole card



80 LUX



E-BIKE / DYNAMO HEAD LAMPS

CARRIER REAR LIGHTS

SMART®

M-WAVE

messingschlager
E-Mobility Solutions

ART.-NO.
UVP

DESCRIPTION

466143 E-BIKE HEAD LAMP
›APOLLON E 30‹

12,90 €

- **30 Lux**
- 6 - 48 V DC/1.3 W
- with **German approval number**
- reflector with German approval number
- with stainless steel bracket
- with double cable, 10 cm, with flat plug
- OEM



LED DYNAMO HEAD LAMP
›APOLLON D 50‹

- **50 Lux**
- 6 V/3 W
- with **on/off switch**
- with **standlight function**
- with **German approval number**
- **removable** reflector
- with stainless steel bracket
- with double cable

STANDLIGHT



461606 OEM

461607 on M-Wave eurohole card

14,90 €



LED DYNAMO HEAD LAMP
›APOLLON D 30‹

- **30 Lux**
- 6 V/3 W
- with **on/off switch** (for front and rear light)
- with **standlight function**
- with **German approval number**
- **removable** reflector
- with stainless steel bracket
- with 2 double cables, 100 cm
- 2 flat plugs integrated in the housing

STANDLIGHT



• **466944** OEM

466945 on M-Wave eurohole card

12,90 €



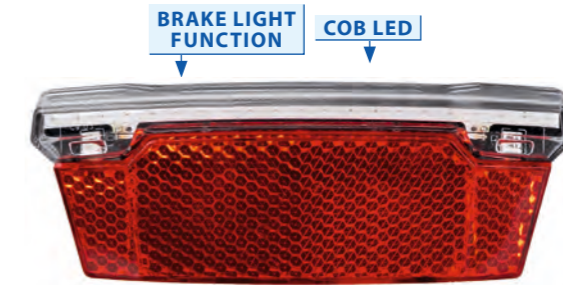
ART.-NO.
UVP

DESCRIPTION

466151 E-BIKE CARRIER REAR LIGHT ›HELIOS E BRAKE‹ M-WAVE

14,90 €

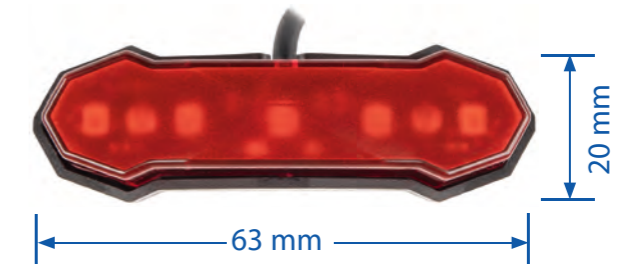
- 6 - 48 V DC/0.6 W
- **2 super bright, red LEDs at the sides**
- **COB LED** (21 chips)
- with **German approval number**
- with **brake light function**
- integrated Z-reflector
- for hole distance 80 mm
- 2 flat plugs integrated in the housing
- on M-Wave eurohole card



466460 E-BIKE CARRIER REAR LIGHT
›VULCAN DUE‹ SMART

11,90 €

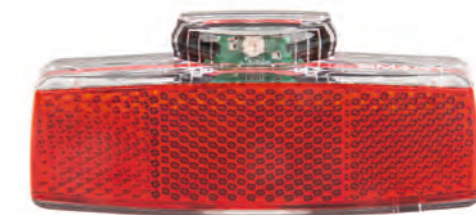
- 6 - 15 V DC/1.3 W
- with **5 red LEDs**
- **20 Lumen**
- radiation angle 220°
- with **German approval number**
- for hole distance 50 mm
- only approx. **63 x 20 mm**
- cable length: 120 cm
- incl. mounting parts
- on Smart eurohole card



• **466997** E-BIKE CARRIER REAR LIGHT ›REFO MINI‹ SMART

11,90 €

- 6 - 60 V DC
- **1 super bright, red Osram LED**
- with **German approval number**
- integrated **Z-reflector**
- for hole distance 80 mm
- incl. lock washers, screws and nuts
- 2 flat plugs integrated in the housing
- OEM



• **466150** E-BIKE CARRIER REAR LIGHT ›HELIOS E‹ M-WAVE

7,90 €

- 6 - 48 V DC/0.6 W
- **3 super bright, red LEDs**
- with **German approval number**
- integrated Z-reflector
- for hole distance 80 mm
- 2 flat plugs integrated in the housing
- OEM



PUNCTURE PROTECTION

- +** PUNCTURE PROTECTION ALL-ROUND
- +** HIGHER GRIP
- +** EASY MOUNTING
- +** REUSABLE
- +** SEHR LEICHT

TANNUS
ARMOUR
NEVER STOP RIDING

The all-round protection against punctures, cuts and pinching.
The Tannus Armour is significantly more effective than other puncture protection systems!

- up to 15 mm at the tread, 3-5 mm at the sides and 2 mm in the rim area
- free tire and tread selection
- very light and reusable
- support for the entire tire: even at lower air pressure, the Armour works against deformation by lateral forces, allowing greater grip and better traction
- reduces the risk of snake bites (e.g. by a strong impact)
- patented Aither 1.1 technology: very lightweight high-tech polymer foam with millions of bubbles provides shock and vibration damping
- in case of emergency: with flattened tube you can continue riding at reduced speed
- easy mounting
- anti-pinch protection for tube mounting
- universal sizes for several widths
- recyclable
- ideal also for bike sharing fleets



Set

Also available in a set with matching tube

Art. 084163



ART.-NO. UVP	ARMOUR SIZE	MATCHING TIRE	MATCHING TUBE	RIMM INNER WIDTH	WEIGHT	FEATURES (Banderole)
519185 39,90 €	29 x 1.95 - 2.50 50/63 - 622	~ 29 x 1.95 - 2.50 ~ 50/63 - 622	~ 700 x 44 - 54 C ~ 44/54 - 622	~ 19 - 33 mm	320 g	
519155 44,90 €	set of art. 519185 and fitting tube, FV 48 mm (Art. 559125)					
519193 44,90 €	29 x 2.60 - 3.00 65/75 - 622	~ 29 x 2.60 - 3.00 ~ 65/75 - 622	~ 29 x 2.00 - 2.40 ~ 50/63 - 622	~ 23 - 36 mm	350 g	
519163 49,90 €	set of art. 519193 and fitting tube, FV 48 mm (Art. 559133)					
519188 29,90 €	700 x 28 - 34 C 28/34 - 622	~ 700 x 28 - 34 C ~ 28/34 - 622	~ 700 x 20 - 25 C ~ 20/25 - 622	~ 16 - 25 mm	200 g	
519158 34,90 €	set of art. 519188 and fitting tube, FV 48 mm (Art. 559128)					
519183 29,90 €	700 x 35 - 40 C 35/40 - 622	~ 700 x 35 - 40 C ~ 35/40 - 622	~ 700 x 20 - 28 C ~ 20/28 - 622	~ 19 - 25 mm	230 g	
519153 34,90 €	set of art. 519183 and fitting tube, FV 48 mm (Art. 559128)					
519184 34,90 €	700 x 42 - 47 C 42/47 - 622	~ 700 x 42 - 47 C ~ 42/47 - 622	~ 700 x 28 - 40 C ~ 28/40 - 622	~ 19 - 25 mm	290 g	
519154 39,90 €	set of art. 519184 and fitting tube, FV 48 mm (Art. 559123)					
519182 39,90 €	27.5 x 1.95 - 2.50 50/63 - 584	~ 27.5 x 1.95 - 2.50 ~ 50/63 - 584	~ 27.5 x 1.65 - 2.125 ~ 44/54 - 584	~ 19 - 33 mm	310 g	
519152 44,90 €	set of art. 519182 and fitting tube, FV 48 mm (Art. 559122)					
519192 44,90 €	27.5 x 2.60 - 3.00 65/75 - 584	~ 27.5 x 2.60 - 3.00 ~ 65/75 - 584	~ 27.5 x 2.00 - 2.40 ~ 50/63 - 584	~ 23 - 36 mm	330 g	
519162 49,90 €	set of art. 519192 and fitting tube, FV 48 mm (Art. 559132)					
519180 34,90 €	26 x 1.60 - 1.90 42/47 - 559	~ 26 x 1.60 - 1.90 ~ 42/47 - 559	~ 26 x 1.10 - 1.50 ~ 28/40 - 559	~ 19 - 25 mm	260 g	(art. 519120)
519150 39,90 €	set of art. 519180 and fitting tube, FV 48 mm (Art. 559120)					
519189 39,90 €	26 x 1.95 - 2.10 50/54 - 559	~ 26 x 1.95 - 2.10 ~ 50/54 - 559	~ 26 x 1.65 - 1.90 ~ 44/50 - 559	~ 19 - 33 mm	250 g	
519159 44,90 €	set of art. 519189 and fitting tube, FV 48 mm (Art. 559129)					
519181 39,90 €	26 x 1.95 - 2.50 50/63 - 559	~ 26 x 1.95 - 2.50 ~ 50/63 - 559	~ 26 x 1.65 - 1.90 ~ 44/54 - 559	~ 19 - 33 mm	300 g	(art. 519121)
519151 44,90 €	set of art. 519181 and fitting tube, FV 48 mm (Art. 559129)					
519194 49,90 €	26 x 4.00 - 4.80 100/120 - 559	~ 26 x 4.00 - 4.80 ~ 100/120 - 559	~ 26 x 3.8 - 4.8 ~ 90/120 - 559	~ 65 - 100 mm	480 g	for Fat tires, with banderole
519187 39,90 €	24 x 1.95 - 2.50 50/63 - 507	~ 24 x 1.95 - 2.50 ~ 50/63 - 507	~ 24 x 1.65 - 2.125 ~ 44/54 - 507	~ 19 - 33 mm	270 g	
519157 44,90 €	set of art. 519187 and fitting tube, FV 48 mm (Art. 559126)					
519191 29,90 €	24 x 1 3/8 35/40 - 540	~ 24 x 1 3/8 ~ 35/40 - 540	~ 24 x 1 ~ 20/28 - 540	~ 18 - 25 mm	170 g	also for wheelchairs (art. 519131)
519161 34,90 €	set of art. 519191 and fitting tube, FV 48 mm (Art. 511247)					
519186 29,90 €	20 x 1.95 - 2.50 50/63 - 406	~ 20 x 1.95 - 2.50 ~ 50/63 - 406	~ 20 x 1.65 - 2.125 ~ 44/54 - 406	~ 19 - 33 mm	220 g	
519156 35,90 €	set of art. 519186 and fitting tube, FV 48 mm (Art. 559127)					
519190 29,90 €	20 x 1.75 - 1.95 47/50 - 406	~ 20 x 1.75 - 1.95 ~ 47/50 - 406	~ 20 x 1.5 - 1.95 ~ 40/50 - 406	~ 20 - 36 mm	190 g	
519160 34,90 €	set of art. 519190 and fitting tube, AV 35 mm (Art. 510320)					

PUNCTURE PROTECTION

ART.-NO.
UVP DESCRIPTION



150 g

PUNCTURE PROTECTION >ARMOUR TUBELESS<

The Tannus Armour tubeless tire insert is comprised of the high-tech polymer foam. This puncture protection for tubeless tires is very easy and without tools to install, even on the trails. Also test results are showing, that this Armour tubeless puncture protection is the best compromise out of lightest weight, low rolling resistance and high stability even in corners.

- 20 mm allround rim protection
- ride-flat technology, thick enough to "ride-out" in case of a flat
- very high damping property
- wing technology keeps your ride comfortable and safe, even in curves
- does not absorb sealant, keeps sealant where it belongs
- easy on-the-go-installation
- reusable
- free tire and tread selection
- fits for 2.10-2.60" tire width, ideal for rim width 23-35 mm
- in Tannus eurohole box

- 519103
- fits for 1.3-1.75" tire width, ideal for rim width 19-27 mm
 - 700 x 33-47 C (33/47 - 622), 70 g

fits for 2.10-2.60" tire width, ideal for rim width 23-35 mm

- 519100 27,5 x 2.10-2.60 (53/65 - 584), 150 g

- 519101 29 x 2.10-2.60 (53/65 - 622), 160 g

49,90 €



TANNUS ARMOUR™ TUBELESS



TWOI-END TUBE

- fast and easy mounting possible without detaching the wheel
- excellently suitable for e-bikes and bikes with coaster and gear hub
- especially durable and breakdown resistant through 1.10 mm wall thickness
- in box
- unit: 100/20



ART.-NO. UVP	SIZE	ETRTO NO.	VALVE
518200	20 x 1.90 - 2.10	50/54-406	AV 40 mm
518240	24 x 1.60 - 1.75	40/47-507	AV 40 mm
518243	24 x 1.90 - 2.10	50/54-507	AV 40 mm
518260	26 x 1.60 - 1.75	40/47-559	AV 40 mm
518263	26 x 1.90 - 2.10	50/54-559	AV 40 mm
518277	27.5/650 B x 1.90 - 2.10	50/54-584	FV 47 mm
518280	700 x 32/35 C	32/37-622/635	AV 40 mm
518281			FV 47 mm
518283	700 x 38/45 C	40/47-622/635	AV 40 mm
518284			FV 47 mm
518291	28/29 x 1.90 - 2.10	50/54-622	FV 47 mm

11,95 €

SOLID MATERIAL TIRES >AIRLESS<

Tannus airless tires offer 100% puncture protection by very low weight, thanks to the used high-tech polymer nano foam. The airless tires have a very low rolling resistance and are available in different densities. The airless road tire has 100% puncture protection and weighs 160g less than normal puncture protection tires.

- made of hightech polymer foam
- ultra light
- super durable, manufacturer warranty for at least 7,000 km
- lightfast
- low rolling resistance
- available in three different degrees of hardness (soft, medium and hard) on request
- Green Certification:
 - environmentally friendly production and recycling
 - 100% recyclable
 - reduces waste
- approved according to EN 14781: 2005
- incl. mounting tool and pins

Other sizes, colors, hardness are available on request. Please contact your seller.
















TANNUS Airless Tire





KENDA




DESIGNED FOR YOUR JOURNEY









ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
<p>»MTB«</p>				
<p>Speed ■■■■ Grip ■■■■ Protection ■■■■ Durability ■■■■</p>				
				
<p>»HAVOK PRO« K-1184A</p> 				
528232 69,90 € ★ ★ ★	650 B x 2.80 27.5 x 2.80 PLUS	71-584	<ul style="list-style-type: none"> • 120 TPI • Kevlar folded • EMC (Electric-Mountainbike Casing) • E-Bike certified up to 50 km/h (ECE-R75) • DTC • SCT • Tubeless Ready • only 898 g • TCC: 2.275 mm 	<p>eurohole card</p>     
<p>Speed ■■■■ Grip ■■■■ Protection ■■■■ Durability ■■■■</p>				
				
<p>»HELLKAT PRO« K-1201E</p> 				
528235 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 certified up to 50 km/h (ECE-R75) • only 1.120 g • TCC: 2.384 mm 	<p>eurohole card</p> <p>DUAL TREAD</p>   
528234 64,90 € ★ ★ ★	650 B x 2.60 27.5 x 2.60	66-584	<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 certified up to 50 km/h (ECE-R75) • only 1.053 g • TCC: 2.271 mm 	<p>eurohole card</p> <p>DUAL TREAD</p>   

TIRES - MTB, TREKKING / CITY

ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
			 <p>BEST ENDURO E-BIKE 50 FOLDING</p> <p>NEVEGAL² PRO K-1211E</p> <p>TRAIL / ENDURO 4 140 kg</p> <p>Speed: █ Grip: █ Protection: █ Durability: █</p>	
528236 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 <p>DUAL TREAD</p> <p>EMC</p> <p>E-50</p>	eurohole card 

TREKKING / CITY












ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
			 <p>KHAN K-935</p> <p>TREKKING/GRAVEL 2 150 kg</p>	
527774 29,90 € ★	700 x 35 C	37-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike certified up to 50 km/h (ECE-R75) • Reflex • TCC: 2.199 mm <p>KS+Q</p> <p>E-50</p> <p>3x NOTE 1 BESTER PANNENSCHUTZ SEINER KLASSE!</p>	tag 
520535 16,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • Reflex • TCC: 2.199 mm <p>KSQ</p> <p>E-25</p>	with tag 

ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
529389 31,90 € ★	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 <p>KS+Q</p> <p>E-25</p> <p>3x NOTE 1 BESTER PANNENSCHUTZ SEINER KLASSE!</p>	tag 
527754 34,90 € ★	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 <p>KS+Q</p> <p>E-25</p>	tag 
529087 19,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • Reflex • TCC: 2.209 mm <p>KSQ</p> <p>E-25</p>	with tag 
529654 31,90 € ★	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 <p>KS+Q</p> <p>E-25</p>	tag 
529015 19,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • Reflex • TCC: 2.249 mm <p>KSQ</p> <p>E-25</p>	with tag 
522673 35,90 € ★	26 x 1.75	47-559	<ul style="list-style-type: none"> • 60 TPI • K-Shield Plus • E-Bike approved • Reflex • TCC: 2.023 mm <p>KS+Q</p> <p>E-25</p>	tag 
529093 18,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • Reflex • TCC: 2.023 mm <p>KSQ</p> <p>E-25</p>	with tag 
529095 14,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • TCC: 2.023 mm <p>KSQ</p> <p>E-25</p>	with tag 

TIRES - TREKKING / CITY

KENDA

messingschlager
E-Mobility Solutions

ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
529091 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 14,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • TCC: 2.061 mm 	with tag 
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  PREIS/LEISTUNG </div> <div style="text-align: center;"> <h2>»KHAN II«</h2> <h3>K-1172</h3> </div> <div style="text-align: center;">  </div> </div>				
529259 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 
529006 15,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • Reflex • TCC: 2.193 mm 	with tag 
529258 31,90 €	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 18,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • Reflex • TCC: 2.231 mm 	with tag 
529257 31,90 €	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 
529012 19,90 €			<ul style="list-style-type: none"> • K-Shield • E-Bike approved • Reflex • TCC: 2.253 mm 	with tag 

ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
529011 26,90 €	700 x 50 C	50-622	<ul style="list-style-type: none"> • 30 TPI • K-Shield • E-Bike approved • Reflex • nur 1.092 g • TCC: 2.297 mm 	with tag 
520903 22,90 €	650 B x 2.10 27.5 x 2.10	53-584	<ul style="list-style-type: none"> • 30 TPI • K-Shield • E-Bike approved • Reflex • nur 1.038 g • TCC: 2.177 mm 	with tag 
529007 13,90 €	26 x 1.95	50-559	<ul style="list-style-type: none"> • K-Shield • E-Bike approved • TCC: 2.095 mm 	with tag 
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <h2>»EUROTREK«</h2> <h3>K-197</h3> </div> <div style="text-align: center;">  </div> </div>				
529018 15,90 €	700 x 38 C	40-622	<ul style="list-style-type: none"> • 30 TPI • K-Shield • E-Bike approved • TCC: 2.202 mm 	with tag 
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <h2>»KWICK JOURNEY«</h2> <h3>K-1129</h3> </div> </div>				
527988 35,90 €	700 x 40 C	40-622	<ul style="list-style-type: none"> • 60 TPI • K-Shield • E-Bike certified up to 50 km/h (ECE-R75) • Reflex • TCC: 2.227 mm 	tag 



Rollin' it right

Tires - tubes - no chichi. That's what KUJO is all about. KUJO gives you maximum function at an unbeatable price.

No matter if MTB, trekking, road racing or BMX - we have always the right tire. Thanks to our longstanding experience in R&D and distribution of bicycle tires, all products are adjusted to the needs of the market.

KUJO tires stand out for their performance, quality and great reliability, at an attractive price.

ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
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›ONE 0 ONE T‹
KU-2003

558052 U 16,90 €	700 x 45 C	47-622	• with reflective stripes and puncture protection	PROTECT OEM
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›ONE 0 ONE A‹
KU-2005

558143 U 15,90 €	700 x 35 C	37-622	• with reflective stripes and puncture protection	PROTECT OEM
558139 U 16,90 €	700 x 38 C	40-622	• with reflective stripes and puncture protection	PROTECT OEM

ART.-NO. UVP	SIZE	ETRTO NO.	SPECIFICATIONS	PACKAGING
558145 U 16,90 €	700 x 40 C	42-622	• with reflective stripes and puncture protection	PROTECT OEM
558140 17,90 €	700 x 45 C	47-622	• with reflective stripes and puncture protection	PROTECT OEM
558138 16,90 €	26 x 1.75	47-559	• with reflective stripes and puncture protection	PROTECT OEM
558141 17,90 €	26 x 1.95	50-559	• with reflective stripes and puncture protection	PROTECT OEM



›ONE 0 ONE‹
KU-2001

558044 U 15,90 €	700 x 35 C	37-622	• with reflective stripes and puncture protection	PROTECT OEM
558046 U 16,90 €	700 x 38 C	40-622	• with reflective stripes and puncture protection	PROTECT OEM
558048 U 16,90 €	700 x 40 C	42-622	• with reflective stripes and puncture protection	PROTECT OEM
558042 U 16,90 €	26 x 1.75	47-559	• with reflective stripes and puncture protection	PROTECT OEM

ART.-NO.
UVP DESCRIPTION

610010 E-BIKE UNIVERSAL MID-MOUNTED MOTOR

699,00 €

- turns (almost) every bike into a mid-mounted 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 derailleur 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 E-BIKE BATTERY

549,00 €

- with accumulator 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



E-BIKE BATTERIES

Ask us for your individually tuned E-Bike batteries, for mounting at the down tube, eyelets for bottle cage, carrier, ... or integrated into the frame.



612030 E-BIKE MOTOR PROTECTION COVER
»E-PROTECT CENTER« M-WAVE

24,90 €

- universal size, ideally suitable for e-bike motors of Shimano, Bosch, Brose, ...
- size flexibly adaptable
- made of neoprene
- protects the motor through isolation
- protects from coldness, weather condition and dirt
- prevents scratches, stone chipping and shock damages
- in M-Wave eurohole box



ART.-NO.
UVP DESCRIPTION

612010 E-BIKE BATTERY PROTECTION
»E-PROTECT« M-WAVE

14,90 €

- universal suitable for Bosch and Shimano down tube batteries (no original Bosch or Shimano spare part)
- isolation provides extended battery capacity
- made of neoprene
- protection from coldness and weather condition
- protection from scratches, stone chipping and shock damages
- in M-Wave eurohole box



612021 E-BIKE BATTERY PROTECTION COVER
»E-PROTECT WRAP« M-WAVE

14,90 €

- universal size for in the frame integrated e-bike batteries
- isolation provides extended battery capacity
- protection from coldness and weather condition, scratches, stone chipping and shock damages
- made of neoprene
- in M-Wave eurohole box



612020 E-BIKE BATTERY PROTECTION COVER
»E-PROTECT CARRIER« M-WAVE

17,90 €

- universal size, ideally suitable for carrier batteries from Bosch (and Shimano)
- isolation provides extended battery capacity
- protection from coldness and weather condition
- protection from scratches, stone chipping and shock damages
- made of neoprene
- with opening to charge the battery inside the carrier (Bosch battery)
- in M-Wave eurohole box



122538 E-BIKE BATTERY BAG
»ROUGH RIDE B« M-WAVE

34,90 €

- universal, padded transport protection for down tube and carrier batteries
- 100% waterproof
- expandable via roll cover
- high tear resistance through reinforced ripstop textile
- universal and secure mounting to the frame tube, carrier, ... with wide hook and loop fasteners
- with non-slip inlays and reflex logo
- size: approx. 55 x 8.5 x 13 cm (L x W x H)
- volume approx. 7 litres



612022 E-BIKE BATTERY CONNECTOR COVER
»E-PROTECT CONNECT« M-WAVE

9,90 €

- 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



ART.-NO.
UVP

DESCRIPTION

612040 COCKPIT/HANDLEBAR COVER M-WAVE

- 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 fasteners
- on M-Wave eurohole card



612027 E-BIKE REMOTE AND DISPLAY PROTECTION
»E-PROTECT« M-WAVE

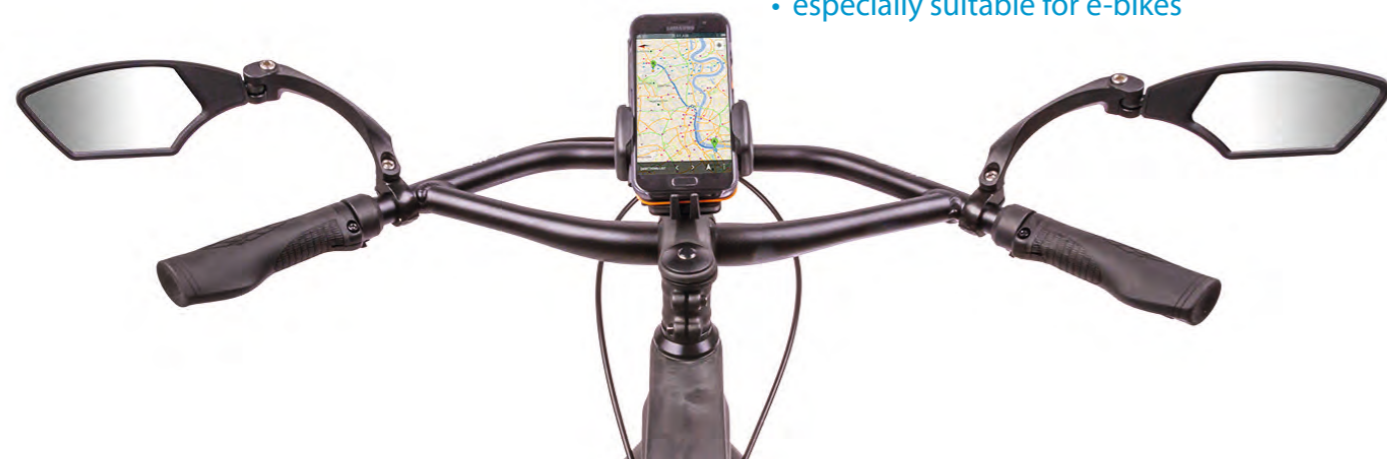
- water resistant **neoprene** material
- **universally suitable** for (almost) all **remote** and **center displays** due to extra long hook and loop fastener and cord strap
- perfect protection for displays, remote lever, connection contacts, ...
- on M-Wave eurohole card



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



YOUR WORLD OF CYCLING
www.m-wave-bike.com



ART.-NO.
UVP

DESCRIPTION

E-SCOOTER »SL«

- powerful **350 W engine** (brushless) up to **25 km/h**
- with **8.5" air tires** for first class riding comfort
- **rear disc brake** / electric brake at the front
- additional rear pedal brake
- light and strong frame made of stainless steel
- only **12 kg** total weight
- foldable in seconds
- with front and rear **LED lights**
- **Li-Ion rechargeable battery** (230 Wh/6.4 Ah) with max. **25 km range** (depending on the rider weight, trail conditions etc.)
- **easily removable battery in the steering column**, water-protected housed (IP54)
- battery can be charged in the e-scooter or separately
- charging time only 2-3 hours
- with side stand
- up to **100 kg riders weight**
- incl. charger with **EU and UK** plugin box



659885 black

659886 silver

549,00 €

Sale and use within the scope of the StVZO (Germany) not allowed.

REPLACEMENT PARTS FOR E-SCOOTER »SL«

659884 rechargeable battery, 216 Wh/6.4 Ah
249,00 €

659851 charger
29,90 €

659857 battery bag
13,90 €

659852 brake pads
7,99 €

659856 brake instruments
14,90 €

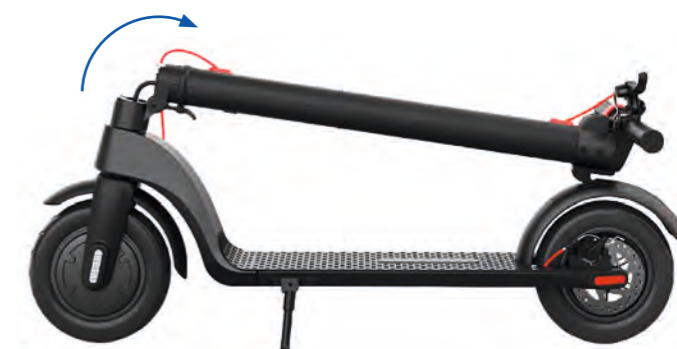
659855 motor
99,90 €

659873 replacement tire
9,90 €

659850 controller
49,90 €

659853 front mudguard
4,99 €

659854 rear mudguard, incl. brake pad
13,90 €



E-SCOOTER / ACCESSORIES

ART.-NO.
UVP DESCRIPTION

- 659905 E-SCOOTER ›E9X‹**
399,00 €
- powerful **250 W engine** (brushless) up to **20 km/h**
 - with **8.5" air tires** for first class riding comfort
 - rear disc brake** / electric brake at the front
 - light, strong aluminium frame
 - only **12.5 kg** total weight
 - foldable in seconds
 - with front and rear **LED lights**
 - Li-Ion rechargeable battery** (216 Wh/6 Ah) with max. **18 km range**
 - with side stand
 - incl. bell
 - with number plate bracket
 - up to **100 kg riders weight**
 - incl. charger with **EU** and **UK** plugin box

Sale and use within the scope of the StVZO (Germany) not allowed.

REPLACEMENT PARTS FOR E-SCOOTER ›E9X‹

- 659860** rechargeable battery, 216 Wh/6 Ah
159,90 €
- 659861** rechargeable battery, 270 Wh/7.5 Ah
179,90 €
- 659862** stand
7,90 €
- 659863** brake disc
9,90 €
- 659865** brake instruments (brake lever, bell)
14,90 €
- 659864** tube
5,90 €
- 659873** replacement tire
9,90 €
- 659869** frontwheel with motor
99,90 €
- 659866** throttle
12,90 €
- 659872** grips
9,90 €
- 659868** display platine
29,90 €



ART.-NO.
UVP DESCRIPTION

- ERSATZTEILE FÜR E-SCOOTER ›E9X‹**
- 659871** scooter board
7,90 €
- 659867** front light
6,90 €
- 659870** rear light glass
0,99 €
- 659874** reflector sticker
1,49 €

ACCESSORIES FOR E-SCOOTER

- 122888** scooter/handlebar bag
U
21,90 €
›Suburban messenger compact‹



- 122580** bracket for mobile devices
U
11,90 €
›Bike Mount Flex‹



- 122739** shoulder strap for e-scooter
7,90 €
• e.g. for art. 659905/659985/6, ...
• in PE bag with sheet



- 511808** TUBE FOR E-SCOOTER ›KENDA‹
5,90 €

SIZE	VALVE	FEATURE
8" 8 1/2x2.0 (E-Scooter ✓)	AV 45° 70°	AV 45°/70° bent



SRAM and **RockShox** - these are the leading international brands for drives, derailleurs, suspension forks and suspensions in the MTB, road and gravel sector. Versatile solutions meet the requirements of the respective bicycle concept at the highest technical level. As an OEM, you can now obtain **the entire range of parts from the brands Sram and RockShox** via Messingschlager.

During the development of our brand new allmountain E-MTB fully made of carbon, the chassis tuning was already carried out in close cooperation with the engineers from Schweinfurt. These parts can be found as examples on the following two pages. Feel free to contact us regarding other desired parts - we will gladly help you choose!

ART.-NO. DESCRIPTION

391502 SUSPENSION FORK ›Pike Select Charger RC‹

- travel: 140 mm
- suspension system: DebonAir air suspension with adjustable low speed compression
- steerer Ø (stem): 28.6 mm / 1 1/8"
- steerer Ø (crown race): 40 mm
- steerer: 1 1/8" - 1.5" tapered
- fork offset: 51 mm
- stanchion Ø: 35 mm
- OLD: boost standard, 110 mm
- axle type: thru axle maxle
- brake mount: disc post mount
- min./max. rotor size: 180/220 mm
- max. tire width: 29 x 3.2"
- installation height: 551 mm
- model: FS-PIKE-SEL-B4



390020 SUSPENSION FORK ›35 SILVER TK 27.5"‹

- travel: 140 mm
- suspension system: Solo Air air suspension with turnkey lockout
- steerer Ø (stem): 28.6 mm / 1 1/8"
- steerer: 1 1/8" - 1.5" tapered
- fork offset: 44 mm
- stanchion Ø: 35 mm
- OLD: boost standard, 110 mm
- axle type: thru axle maxle
- break mount: disc post mount
- min./max. rotor size: 180/220 mm
- max. tire width: 27.5 x 3.2"
- installation height: 552 mm
- model: FS-35S-TK-A1



ART.-NO. DESCRIPTION

390031 SUSPENSION FORK ›REBA RL-A9‹

- travel: 100 mm
- suspension system: solo air suspension
- steerer Ø (stem): 28.6 mm / 1 1/8"
- steerer: 1 1/8" - 1.5" tapered
- fork offset: 51 mm
- stanchion Ø: 32 mm
- OLD: boost standard, 110 mm
- axle type: thru axle maxle
- brake mount: disc post mount
- min./max. rotor size: 160 / 220 mm
- max. tire width: 29 x 3.2"
- installation height: 506 mm
- model: FS-REBA-RL-A9



390022 SUSPENSION FORK ›PARAGON GOLD RL-A1‹

- travel: 65 mm
- suspension system: solo air suspension
- steerer Ø (stem): 28.6 mm / 1 1/8"
- steerer: 1 1/8" - 1.5" tapered
- fork offset: 46 mm
- stanchion Ø: 30 mm
- OLD: 100 mm
- axle type: 9 mm quick release
- brake mount: disc post mount
- min./max. rotor size: 160 / 180 mm
- max. tire width: 28 x 2.8"
- installation height: 477 mm
- model: FS-Paragon Gold-RL-A1



REAR SUSPENSION ›DELUXE SELECT +‹

- suspension system: DebonAir air suspension, RT - Rebound Threshold
- OLD: 185 mm
- shaft hardware: trunnion
- model: RS-DLX-SELP-B2

666740 hub: 55 mm

666741 hub: 47,5 mm



ART.-NO. DESCRIPTION

SHIFTING COMPONENTS

681038 Rear derailleur GX Eagle
 • 12 speed
 • long cage
 • capacity: 52 teeth
 • aluminium cage
 • x-actuation
 • 299 g

681016 Rear derailleur NX Eagle
 • 12 speed
 • long cage
 • capacity: 50 teeth
 • steel cage
 • x-actuation
 • 339 g

681020 Shift lever GX Eagle
 • 12 speed
 • X-actuation
 • matchmaker compatible
 • 122 g

681017 Shift lever NX Eagle
 • 12 speed
 • X-actuation
 • matchmaker compatible
 • 112 g

Lever clamp ›Matchmaker X‹

360140 left
360141 right



BRAKES AND ACCESSORIES

360496 Disc brake ›Guide RE‹
 • for front
 • adjustable reach
 • for DOT 5.1
 • with 950 mm tube
 • for postmount system incl. 20 mm spacer
 • 415 g

360497 Disc brake ›Guide RE‹
 • for rear
 • adjustable reach
 • für DOT 5.1
 • with 1,650 mm tube
 • for postmount system
 • 415 g

360490 disc brake ›Level T‹
 • front
 • for DOT 4
 • with 950 mm tube
 • for postmount system

360491 disc brake ›Level T‹
 • rear
 • for DOT 4
 • with 1,650 mm tube
 • for postmount system



ART.-NO. DESCRIPTION

BRAKES AND ACCESSORIES

360498 Brake disc
 • 200 mm
 • center lock
 • inkl. fixing screws

360499 Brake disc
 • 203 mm
 • center lock
 • inkl. fixing screws



CASSETTE SPROCKETS

700202 cassette sprocket GX Eagle
 • 12 speed
 • 10-52 teeth

700214 cassette sprocket NX Eagle
 • 12 speed
 • 11-50 teeth



CHAIN

• GX Eagle
 • 12 speed
 • 126 links
 • silver/black
 • PowerLock



CHAINRING

• X-Sync 2
 • steel
 • 34 teeth
 • bolt circle: 104 mm



**DROPPER SEAT POST
 ›REVERB STEALTH‹**

• aluminium
 • pneumatic quick release height adjustment while riding by a handlebar lever
 • Vent Valve technology for easy handling service without any disassembly of the post
 • standard remote, left below or right above
 • Ø 31.6 mm

250006 • length: 414 mm
 • height adjustment: 0-150 mm

250007 • length: 467 mm
 • height adjustment: 0-175 mm



DERAILLEUR HANGER

›Universal Derailleur Hanger‹



ART.-NO.
UVP

DESCRIPTION

MICROSHIFT E-WIDE RANGE

MICROSHIFT E-WIDE RANGE

MICROSHIFT GROUP ›ADVENT X‹

- 1 x 10 speed
- Microshift Advent compatible (only)

• Rear Derailleur
• with **Active Motion RD+** and **Clutch System**

- direct cable pull design
- capacity: 41 teeth
- min: 11 teeth/max: 48 teeth
- 384 g
- in Microshift box



680448 aluminium cage, Model RD-M6205AM

680458 steel cage, Model RD-M6205GM

99,90 €

680460 Shift/Brakelever

199,90 €

- Model **SB-M100A**
- aluminium lever
- in Microshift box



Trail Pro shifter

- aluminium clamp
- with **ball bearing**
- 116 g
- in Microshift box



680447 • Model **SL-M9605-R**

34,90 €

- with **non-slip** inlay

680461 • Model **SL-M9505**

32,90 €

- without **non-slip** inlay



ART.-NO.
UVP

DESCRIPTION

Cassette Sprocket

- Model **CS-G104**
- 10 speed
- **aluminium spider** (only suitable to a limited extent for E-bikes)
- black anodised
- **11 - 48 teeth**
- for Shimano 8-11 speed freewheel



680449 in Microshift box

89,90 €

680434 OEM

680450 Cassette Sprocket

64,90 €

- Model **CS-H104**
- 10 speed
- **steel spider**
- black anodised
- **11 - 48 teeth**
- for Shimano 8-11 speed freewheel
- in Microshift box



MICROSHIFT GROUP ›ADVENT‹

- 1 x 9 speed
- Microshift Advent compatible (only)
- in Microshift box



680420 Shift/Brakelever

189,90 €

- Model **SB-M090**
- forged aluminium
- 378 g/pair
- left brake lever only, right shift/brake lever combination



680421 bar end shifter

64,90 €

- Model **BS-M19-R**
- aluminium
- right **index/friction**
- 75 g
- index/microindex switchable



680419 Xpress shifter

29,90 €

- Model **SL-M8195-R**
- aluminium clamp
- 116 g



SHIFTING COMPONENTS

microSHIFT

SUPER B
tool excellence

messingschlager
E-Mobility Solutions

ART.-NO.
UVP

DESCRIPTION

MICROSHIFT GROUP ›ADVENT‹

- 1 x 9 speed
- Microshift Advent compatible (only)
- in Microshift box

680422 Rear Derailleur
79,90 €

- **Model RD-M6195M**
- 1 x 9 speed
- **medium cage**
- with **Active Motion RD+** and **Clutch system**
- direct cable pull design
- capacity: 41 teeth
- min: 11 teeth/max: 46 teeth
- 384 g



680423 Rear Derailleur
79,90 €

- **Model RD-M6195L**
- 2 x 9 speed
- **long cage**
- with **Active Motion RD+** and **Clutch system**
- direct cable pull design
- capacity: 47 teeth

680452 Rear Derailleur
59,90 €

- **Model RD-M619M**
- 1 x 9/8 speed
- **medium cage**
- with **Active Motion RD+**
- direct cable pull design
- capacity: 41 teeth

Cassette Sprocket

- 9 speed
- black anodised
- in Microshift box

680424 • **Model CS-H093A**
aluminium (only suitable to a limited extent for E-bikes)
• 11 - 42 teeth



680451 • **Model CS-H093**
steel
• 11 - 46 teeth



ART.-NO.
UVP

DESCRIPTION

MICROSHIFT GROUP ›ACOLYTE‹

- 1 x 8 speed
- Microshift Acolyte compatible (only)
- in Microshift box

680454 Rear Derailleur
47,90 €

- **Model RD-M5185M**
- **medium cage**
- capacity: 41 teeth
- Spring Lock **Clutch Design**
- direct cable pull design
- min: 11 teeth/max: 46 teeth
- 384 g



680453 X-Press shifter
21,90 €

- **Model SL-M7180R**
- aluminium clamp
- 134 g



Cassette Sprocket

- **Model CS-H083**
- 8 speed
- black anodised

680455 12 - 42 teeth
44,90 €

680456 12 - 46 teeth
49,90 €



E-MOTOR LOCKRING TOOL

- to mount and demount the lockring of the spider/chaining
- CNC machined
- on Super B eurohole card

880428 ›TB-1069‹
22,90 €

- for **Bosch Active Line Plus, Bosch Active Line 3. Generation** and **Brose**
- for 1/2" drive or 24 mm wrench



880429 ›TB-1067‹
24,90 €

- for **Bosch Active Line 2. Generation, Performance Line** and **Performance Line CX**
- for 1/2" drive



BUILD YOUR OWN E-BIKE



MUC.C.a|SUV

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