

BUILD YOUR OWN E-BIKE



CONCEPTS
2025 & 2026

BUILD YOUR OWN E-BIKE

EVERYTHING FROM A SINGLE SOURCE



YOUR BENEFIT

TIME TO MARKET IN MONTHS



Go to market: Approx. **6-12** months | € investment | Manpower

Go to market: At best **18-24** months | €€€€ investment | Manpower

LESS TIME **LESS MONEY** **LESS MANPOWER**

E-Mail: e-mobility@messingschlager.com

**OUR E-MOBILITY SOLUTIONS TEAM
WILL GLADLY INFORM YOU ABOUT**

OUR DIFFERENT CONCEPTS

BASED ON **brose** **MAHLE** **SHIMANO** & **BAFANG** DRIVE TRAINS

HOW WE CAN SUPPORT YOU

DEVELOPING THE ENTIRE BOM OF YOUR BIKE

OUR UNIQUE FULL-SERVICE-OFFERING

CONSULTANCY, PRODUCT MANAGEMENT, SOURCING,
LOGISTICS SERVICE & FINANCING

The desire for your own e-bike:

No other trend has dominated the bicycle industry more in recent years than the e-bike! In recent years, sales records have been set all over Europe, which has made the e-bike segment popular across the board strongest bicycle segment in the countries. In Germany alone, the market share in terms of volume is now over 50%. Since 2013, the number of e-bikes has increased more than sevenfold 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 and is environmentally friendly and healthy. With our over 100 years of expertise in the development, procurement and marketing of bicycle components, we have developed a holistic concept that combines the latest technology with a wide range of possible variations and a high degree of individualization.

The Messingschlager E-Mobility Solutions address the specific consumer and market needs of a wide range of target groups international markets and offer the bicycle manufacturer a maximum degree of flexibility in conception, procurement and production. Our e-mobility solutions are based on the legal EU guidelines and regulations for Pedelecs and guarantee our customers legal certainty.

This enables our customers to have one uncomplicated, cost-efficient and above-average fast market entry into the

number 1 growth market in the bicycle industry!

The Messingschlager PartFinder embodies another important component of this concept. The parts range, which will be expanded again for 2025, will make it easier for OEMs, dealers and end users alike to find the right, load-bearing bicycle part for the required purpose. Our recommended bicycle parts are tested and categorized according to the valid ISO 4210/EN 15194 standards up to 120 kg and in some cases up to 160 kg.

The company's many years of experience Messingschlager gives you help, market-oriented answers and important reliability in a time in which the international supply chains are heavily burdened and product availability is characterized by great uncertainty and long lead times.

The e-bike has arrived at the center of society. Experience the dynamics of his product segment and don't miss your chances!

We would be happy to support you!

Your Team Messingschlager

CONTENT

Legend 4-5

Engines 6-13

Urban & SUV 14-21

Mountain 22-33

Gravel 34-41

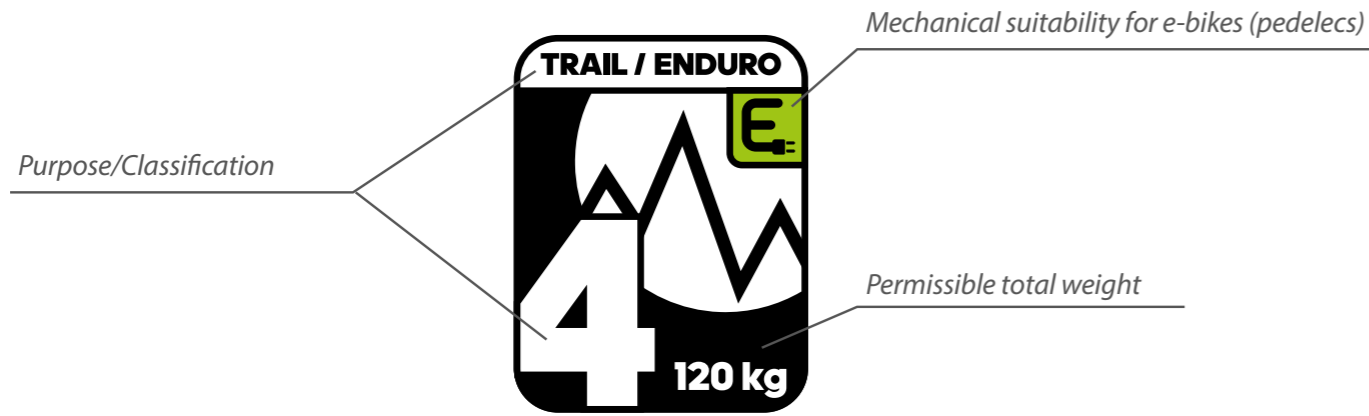
Light Urban 42-49

IoT Tracking 50-51

Service 52-53

Load-oriented products – Every (e-)bike needs suitable parts

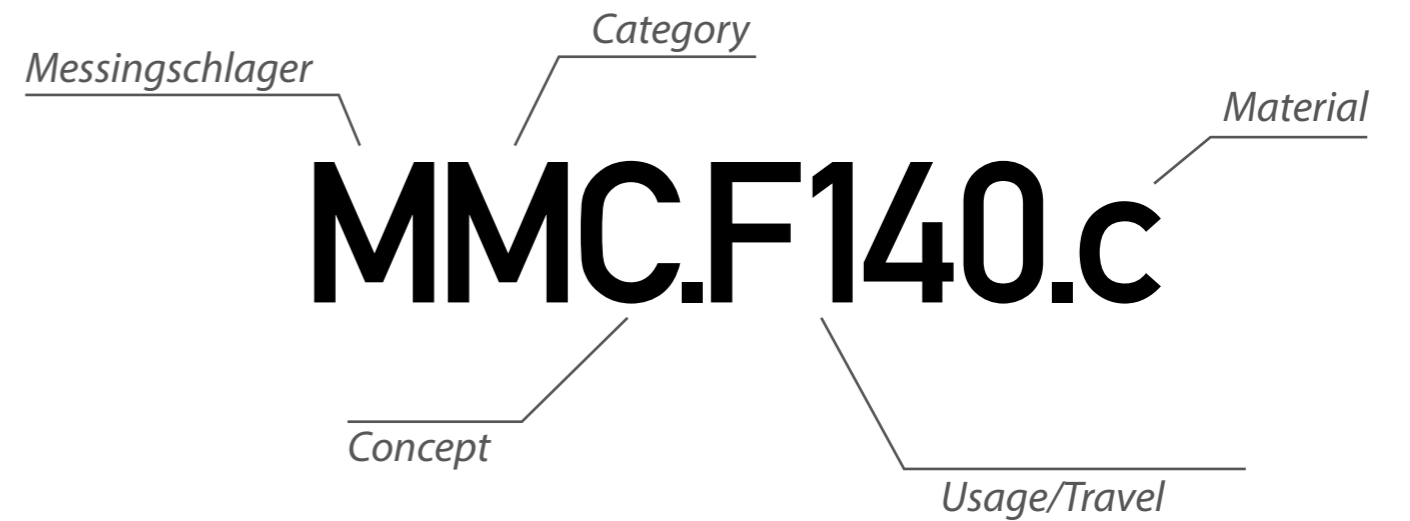
The Messingschlager PartFinder is a classification matrix for bicycles / e-bikes and their accessories. It classifies bicycles according to the respective areas of use based on ASTM F2043-13 or DIN EN 17406 (still in the drafting stage). In addition, it provides quality standards and test reports for 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.

	CITY / URBAN 1 kg	TREKKING / GRAVEL 2 kg	CROSS COUNTRY 3 kg	TRAIL / ENDURO 4 kg	GRAVITY / DH 5 kg	ROAD RACE 6 kg
BODENBESCHAFFENHEIT GROUND CONDITIONS						
MAX. FALL-/SPRUNGHÖHE MAX. DROP/JUMP HEIGHT	0 cm	15 cm	60 cm	120 cm	190 cm	0 cm
MAX. SYSTEMGEWICHT MAX. SYSTEM WEIGHT						



Typologization at Messingschlager

With the emergence of new frame platforms, the need arose to develop a new naming formula and reclassify our product range accordingly. Starting this season, we will be naming our e-bike kits as follows:

- MMC.F170.al / Messingschlager Mountain Concept – Full suspension (170 mm) – Aluminum frame
- MMC.F150.al / SUV Messingschlager Mountain Concept – Full suspension (150 mm) – Aluminum frame
- MMC.F140.c / SUV Messingschlager Mountain Concept – Full suspension (140 mm) – Carbon-Rahmen
- MUC.T.al / Messingschlager Trekking Concept – Trekking and SUV-E-Bike – Aluminum frame
- MUC.C.al / SUV Messingschlager Urban Concept – City and SUV-E-Bike – Aluminum frame
- MUC.L.al / Messingschlager Urban Concept – Light-E-Bike – Aluminum frame
- MRC.G.al / Messingschlager Road Concept – Gravel & Allroad-E-Bike – Aluminum frame
- MRC.G.c / Messingschlager Road Concept – Gravel & Allroad-E-Bike – Carbon-Rahmen
- MMC.Y.al / Messingschlager Mountain Concept – Youth – Aluminum frame

MOTORCYCLE



brose

MAHLE

BAFANG

SHIMANO

brose

Drive³ Peak



■ Brose Drive³ Peak

- Best-in-class performance
- Very quiet operation thanks to belt drive
- Natural ride feel 2.0
- Optimized design and integration
- Leading power-to-weight ratio
- Smooth pedaling above 25 km/h

Brose E-Bike Systeme made in Germany

Different engines for different applications – that's Brose's credo. From modern city and trekking e-bikes to performance-oriented e-mountain bikes and powerful e-cargo bikes, everything is possible with Brose's innovative engine systems.

In addition to customization and finely tunable software, a special feature of Brose engines is their manufacturing, as all Brose mid-drive engines are Made in Germany.

The new **Brose Drive³ Peak** - The future flagship of the Brose drive family offers higher performance with even more compact dimensions and an integration-optimized design. At its highest level, the 48-volt platform, Drive³ Peak, delivers 410 percent assistance at a maximum speed of up to 25 km/h.

Maximum torque: 95 Nm | Peak power: 600 Watt | Weight: 2,9 kg

brose

Drive S-Mag



■ Brose Drive S-Mag

- Specially developed for high-performance applications
- Robust, durable construction – Made in Germany
- Very quiet operation thanks to belt drive
- Extremely refined, powerful assistance
- Particularly natural riding feel
- Smooth pedaling over 25 km/h

Brose Drive S-Mag – powerful mid-drive engine

The Brose Drive S-Mag is a powerful mid-drive engine that's integrated into both our City concept for urban use and cycling touring, as well as our sporty concept, which is ideally suited as an e-mountain bike. It provides a solid foundation for modern e-bikes. The absolute unique selling point of this motor series is its unique belt drive, which ensures the motor's unparalleled quietness. Matching features include a remote unit and a 630 Wh battery.

Maximum torque: 90 Nm | Peak power: 600 Watt | Weight: 2,9 kg

MAHLE X20



MAHLE X20

- Completely silent
- Ultra lightweight - only 1.4 kg
- Almost invisible
- Smart thinking, torque & cadence sensor compatible
- ANT+ connection with current bike computers
- Up to 130 km range with one battery
- 50 km range extension with range extender

MAHLE - the new benchmark in the SmartBike industry

Compact e-bike motor systems are also part of the innovative motor manufacturer's portfolio. In addition to a mid-drive motor, two hub motors are particularly noteworthy, offering impressive efficiency, consistent assistance, and compact dimensions. These are the **Mahle X20** and **X30**. Both models are used in the sporty MRC.G.c and MRC.G.al concepts – our interpretation of comfortable, stylish, and clever e-gravel bikes.

The small, 1.4 kg **Mahle X20** hub motor is one of the lightest drive systems currently on the market. The entire system (motor, battery, and controller) weighs approximately 3.2 kg and forms an ideal basis for lightweight, sporty e-bikes – the **Mahle X20** is perfect for use in gravel bikes, road bikes, or stylish urban and city e-bikes.

Maximum torque: 55 Nm | Peak power: 250 Watt | Weight: 1,4 kg

BAFANG H600



BAFANG H600

- Robust, durable hub motor
- Almost invisible
- Lightweight 1.7 kg
- Maximum torque 30 Nm
- Good pedalability over 25 km/h
- Ideal for bikes used in urban areas (city, commuter)
- Compact construction form for minimalist design without visible technology integration

BAFANG - the best drive systems for your new riding experience

The manufacturer's portfolio includes a wide range of motors, batteries and components for e-bikes, which are aimed at both OEM manufacturers and end customers.

In addition to modern mid-drive motors, the world's leading manufacturer of hub motors impresses above all with robust, compact and extremely efficient hub motors from Bafang. In order to achieve an interesting price point for stylish light e-bikes, for example, Messingschlager relies on the compact hub motors from the Chinese manufacturer in various concepts. The **Bafang H600** is used here.

This compact hub motor weighs just 1.7 kg and is characterized by its high efficiency, durability, pedalability, homogeneous support, a natural riding feel and a maximum torque of up to 30 Nm. Especially in stylish city or trekking e-bikes, which should not cost, the Bafang motor system is the first choice.

Maximum torque: 30 Nm | Peak power: 250 Watt | Weight: 1,7 kg

SHIMANO EP8



SHIMANO EP8

- Compact dimensions with low weight
- Elegant integration and look
- More ground clearance for technical trails
- Seamless and direct power always gives you optimum control
- Low noise development
- Reduced pedal resistance for effortless pedaling
- Customize power and battery management with the E-TUBE PROJECT Cyclist app

SHIMANO - Built on a century of cycling history

In addition to gears and brakes, Shimano has also been offering mid-motor systems for e-bikes under the Shimano STEPS (Shimano Total Electric Power System) brand, Shimano has also been offering mid-motor systems for e-bikes since 2010. The top model in the Shimano's motor portfolio is the Shimano EP801. The compact, lightweight mid-motor weighs a slim 2.7 kg, has harmonious support, a robust magnesium housing and can be conveniently maintained and customized from a smartphone via the Shimano E-Tube app. In addition, special software in combination with various electric Di2 gears makes it possible to use Auto-Shift and Free-Shift.

The powerful support of the respective modes makes the **Shimano EP801** ideal for use in sporty e-mountain bikes. With a torque of up to 85 Nm, even the steepest climbs lose their lose their terror. The modern design and high efficiency make the **EP801** an endurance endurance runner on all trails.

Maximum torque: 85 Nm | Peak power: 600 Watt | Weight: 2,7 kg



URBAN



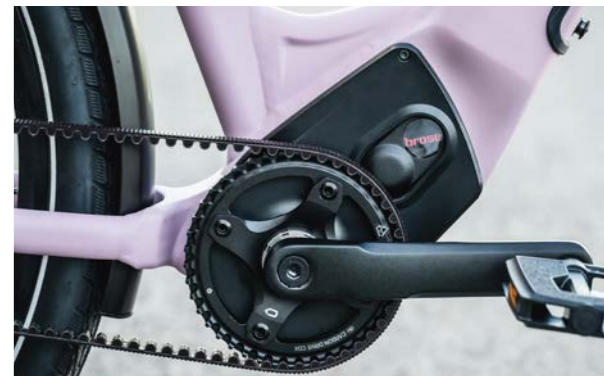
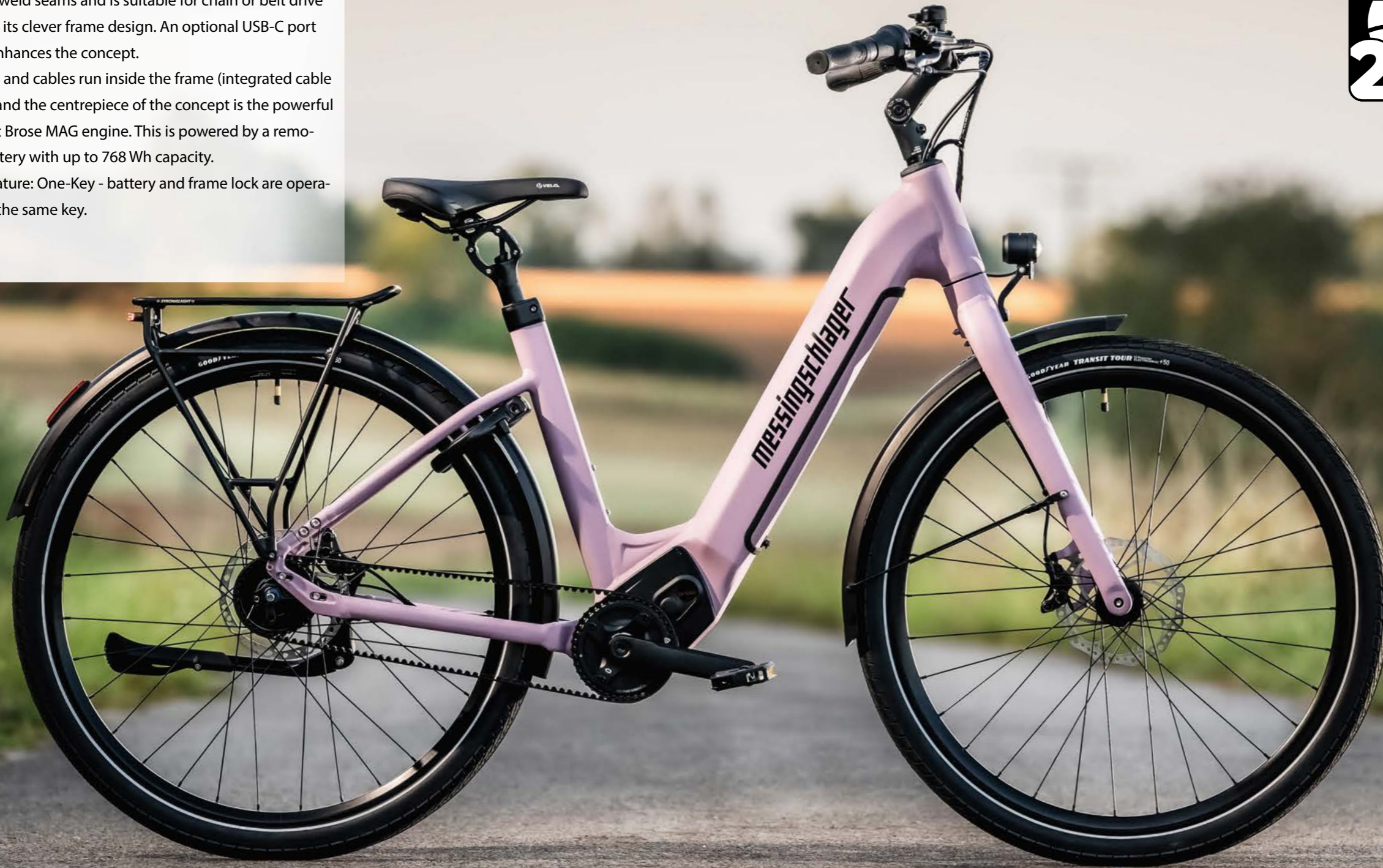
MUC.C.a1 / SUV

Messingschläger Urban Concept - our interpretation of a modern e-bike for the city and urban areas. This comfortable city e-bike has an attractive aluminium frame with polished weld seams and is suitable for chain or belt drive thanks to its clever frame design. An optional USB-C port further enhances the concept.

All cables and cables run inside the frame (integrated cable routing) and the centrepiece of the concept is the powerful and quiet Brose MAG engine. This is powered by a removable battery with up to 768 Wh capacity.

Clever feature: One-Key - battery and frame lock are operated with the same key.

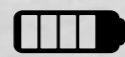
brose



FRAME
Aluminium | S / M / L



ENGINE
Brose Drive T or S



BATTERY
max. 768 Wh



DISPLAY
Brose Central



WHEELSET
28"



TIRE CLEARANCE
max 60 mm



CABLE ROUTING
ICR



CHAIN/BELT
Chain & Belt

MUC.T.a1 / SUV

Messingschläger Trekking Concept – combines modern design with high functionality.

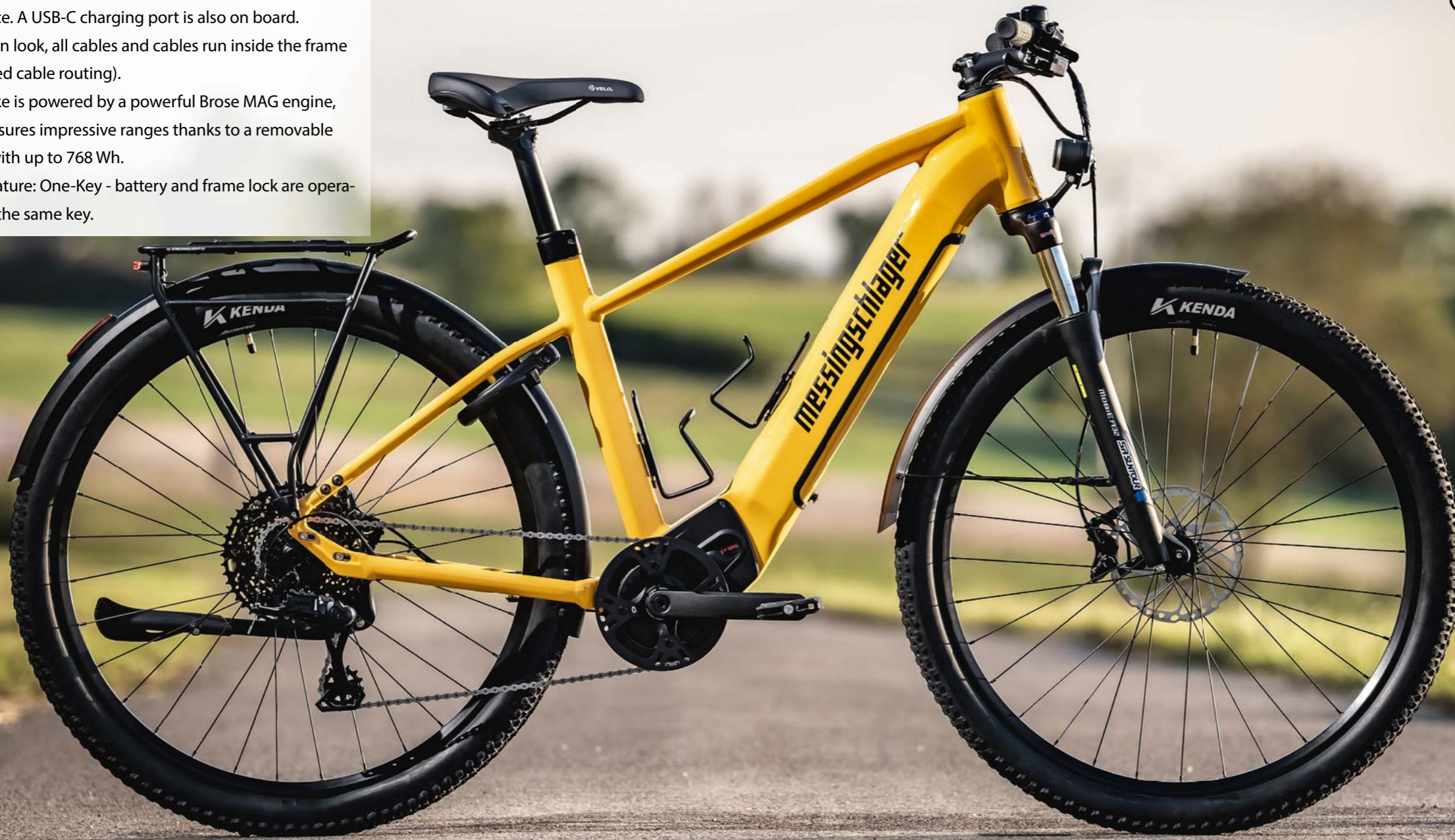
Equipped with a sporty, modern aluminium frame and precisely aluminium frame and precisely ground weld seams, it offers comfort as well as touring suitability and increased off-road capability. The clever frame design allows you to choose between chain or belt drive, depending on your preference. A USB-C charging port is also on board.

For a clean look, all cables and cables run inside the frame (integrated cable routing).

This e-bike is powered by a powerful Brose MAG engine, which ensures impressive ranges thanks to a removable battery with up to 768 Wh.

Clever feature: One-Key - battery and frame lock are operated with the same key.

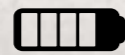
brose



FRAME
Aluminium | S / M / L / XL



ENGINE
Brose Drive T or S



BATTERY
max. 768 Wh



DISPLAY
Brose Allround



WHEELSET
28"



TIRE CLEARANCE
max 60 mm



CABLE ROUTING
ICR



CHAIN/BELT
Chain & Belt

MUC.C.al / SUV



HIGHLIGHTS / FRAME SHAPES / GEOMETRY

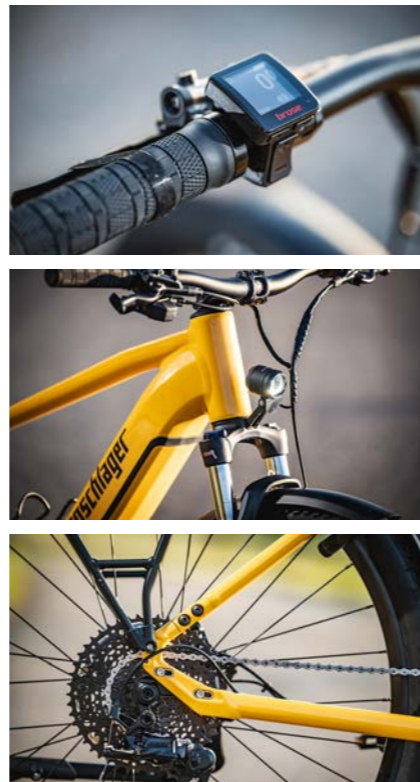
- ✓ **ALUMINUM FRAME MIT SMOOTH WELDING**
Cleaner look through ground welds.
- ✓ **ONE•KEY•SYSTEM**
One key for battery and frame lock.
- ✓ **CHAIN OR BELT DRIVE**
Both possible through frame opening.
- ✓ **INTEGRATED CABLE ROUTING**
Cables and hoses are inside the frame.
- ✓ **MAXIMUM TIRE CLEARANCE**
Tires up to size 60-622 possible.



	S	M	L
seat tube length	440 mm	490 mm	540 mm
horizontal top tube length	613 mm	629 mm	645 mm
steerer tube	142 mm	158 mm	174 mm
chain stays	480 mm	480 mm	480 mm
steerer tubewinkel	69°	69°	69°
seat angle	71°	71°	71°
wheelbase	1136 mm	1153 mm	1169 mm
Reach	393 mm	403 mm	414 mm
Stack	641mm	656 mm	671mm



MUC.T.al / SUV

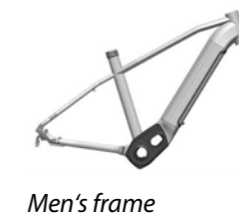


HIGHLIGHTS / FRAME SHAPES / GEOMETRY

- ✓ **ALUMINUM FRAME MIT SMOOTH WELDING**
Cleaner look through ground welds.
- ✓ **ONE•KEY•SYSTEM**
One key for battery and frame lock.
- ✓ **CHAIN OR BELT DRIVE**
Both possible through frame opening,
- ✓ **INTEGRATED CABLE ROUTING**
Cables and hoses are inside the frame.
- ✓ **MAXIMUM TIRE CLEARANCE**
Tires up to size 60-622 possible.



	S	M	L	XL
seat tube length	450 mm	500 mm	550 mm	600 mm
horizontal top tube length	617 mm	625 mm	633 mm	640 mm
steerer tube	142 mm	154 mm	165 mm	174 mm
chain stays	480 mm	480 mm	480 mm	480 mm
steerer tubewinkel	71°	71°	71°	71°
seat angle	73°	73°	73°	73°
wheelbase	1141mm	1150 mm	1158 mm	1165 mm
Reach	418 mm	422 mm	427 mm	432 mm
Stack	652 mm	663 mm	673 mm	682 mm



MOUNTAIN

MOUNTAIN



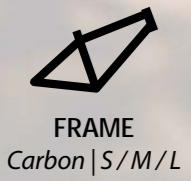
MMC.F140.c / SUV

Messingschlagler Mountain Concept 140 – Our modern high-end E-All Mountain bike is based on a high-quality carbon frame (including rear triangle) in a timeless design, 140 mm suspension travel, internal cable routing and UDH derailleur hanger for use with a SRAM Transmission gear system.

This modern all-mountain is powered by a Brose S Mag mid-engine, which is coupled with a 768 Wh battery - removable, of course.

Thanks to a weight allowance of 140 kg, it is also ideally suited for heavier people. It can also be set up as an SUV with pannier rack and mudguards.

brose



FRAME
Carbon | S / M / L



TRAVEL
140 mm



ENGINE
Brose S MAG



BATTERY
max. 768 Wh



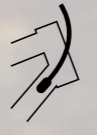
DISPLAY
Brose Allround/Remote



WHEELSET
27,5" / 29"



TIRE CLEARANCE
27,5" = 2,6
29" = 2,4



CABLE ROUTING
ECR

MMC.F170.al

Messingschläger Mountain Concept 170 – E-enduro bikes are all the rage. This is precisely why we have a full suspension with a solid, durable aluminium frame in a timeless design and with 170 mm suspension travel in our range. Here, too, we rely on the powerful Bose Drive S Mag-mid-engine and a battery with 700 Wh capacity. Of course, the battery can be easily removed from the frame via a large opening in the down tube. This frame is also equipped with the universal UDH derailleur hanger and internal cable routing and rolls on mixed wheels - also known as mullet wheels.

brose



FRAME
Aluminium | S / M / L



TRAVEL
170 mm



ENGINE
Brose S MAG



BATTERY
BMZ V10 700 Wh



DISPLAY
Brose Allround/Remote



WHEELSET
27,5" / 29"



TIRE CLEARANCE
27,5" = 2,8
29" = 2,6



CABLE ROUTING
ICR

MMC.F150.al / SUV

Messingschlager Mountain Concept 150 – Our latest development of a high-performance E-All mountain bike combines a modern aluminium frame, 150 mm suspension travel, a large 720 Wh battery and a powerful Shimano EP801 motor.

The frame design ensures a modern look with matching proportions, integrated cables and cables, mullet wheels, the integrated chain guide and the smooth welded seams. This concept also has an SUV option, as mudguards and pannier racks can also be fitted and attached here.

SHIMANO



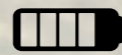
FRAME
Aluminium | S / M / L



TRAVEL
150 mm



MOTOR
Shimano EP8/EP6



BATTERY
630/720 Wh



DISPLAY
SC-EN600



WHEELSET
27,5" / 29"



TIRE CLEARANCE
27,5" = 2,4
29" = 2,6

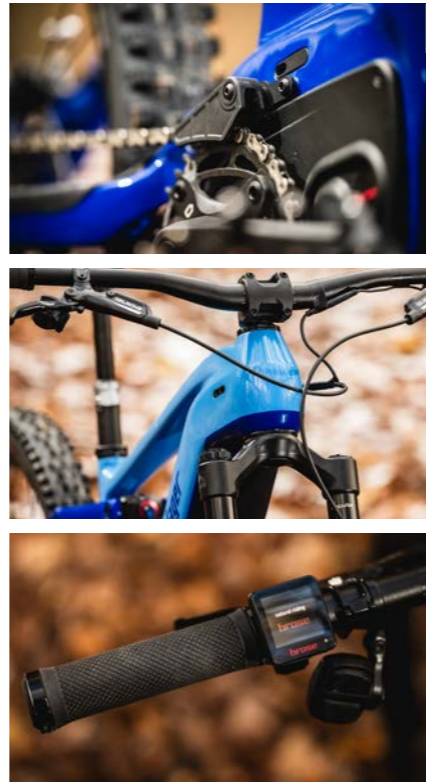


CABLE ROUTING
ICR

MMC.F140.c & MMC.F140.c SUV



brose



HIGHLIGHTS / FRAME SHAPES / GEOMETRY

- ✓ **BROSE S MAG & 768-WH-AKKU**
Powerful engine combined with high-volume battery
- ✓ **TRAVEL: 140 MM**
Carbon frame with 140 mm travel.
- ✓ **ICR AND ECR CABLE ROUTING POSSIBLE**
Cable routing inside or outside of the frame.
- ✓ **SRAM UDH DERAILLEUR HANGER**
Universal and modern.
- ✓ **WEIGHT LIMIT**
Frame is approved up to 140 kg Cat. 4.

	S	M	L
seat tube length	400 mm	420 mm	480 mm
horizontal top tube length	600 mm	632 mm	664 mm
steerer tube	118 mm	140 mm	162 mm
chain stays	465 mm	465 mm	465 mm
steerer tubewinkel	66°	66°	66°
seat angle	71°	71°	71°
wheelbase	1219 mm	1253 mm	1286 mm
Reach	434 mm	460 mm	485 mm
Stack	610 mm	630 mm	650 mm



MMC.F170.al



brose



HIGHLIGHTS / FRAME SHAPES / GEOMETRY

- ✓ **BROSE S MAG & 700-WH-AKKU**
Powerful engine combined with a BMZ V10 battery.
- ✓ **TRAVEL: 170 MM**
Aluminum frame with 170 mm travel.
- ✓ **INTEGRATED CABLE ROUTING**
All cables and hoses are inside the frame
- ✓ **SRAM UDH DERAILLEUR HANGER**
Universal and modern.
- ✓ **WEIGHT LIMIT**
Frame is approved up to 140 kg Cat. 5.

	S	M	L
seat tube length	400 mm	420 mm	460 mm
horizontal top tube length	590 mm	622 mm	654 mm
steerer tube	135 mm	145 mm	155 mm
chain stays	462 mm	462 mm	462 mm
steerer tubewinkel	65,9°	65,9°	65,9°
seat angle	76,9°	76,9°	76,9°
wheelbase	1246 mm	1280 mm	1314 mm
Reach	438 mm	468 mm	498 mm
Stack	660 mm	670 mm	679 mm



TECHNICAL DATA

MMC.F150.al & MMC.F150.al SUV



SHIMANO



HIGHLIGHTS / FRAME SHAPES / GEOMETRY

- ✓ **SHIMANO EP801 & 630/720 WH•AKKU**
powerful motor combined with high-volume battery
- ✓ **TRAVEL: 150 MM**
Aluminum frame with 150 mm travel.
- ✓ **INTEGRATED CABLE ROUTING**
All cables and hoses are inside the frame
- ✓ **SRAM UDH DERAILLEUR HANGER**
Universal and modern.
- ✓ **SUV-OPTION**
Optional fenders and carrier.

	S/M	M/L	L/XL
seat tube length	380 mm	420 mm	440 mm
horizontal top tube length	579 mm	600 mm	626 mm
steerer tube	120 mm	125 mm	130 mm
chain stays	454 mm	454 mm	454 mm
steerer tubewinkel	64,5°	64,5°	64,5°
seat angle	73°	73°	73°
wheelbase	1230 mm	1252 mm	1279 mm
Reach	440 mm	460 mm	485 mm
Stack	625 mm	630 mm	634 mm



Men's frame



SUV version

Carriers and fenders available @ www.messingschlager.com

THE NEW M•WAVE TPU TUBE -PURride-

- Extremely light
- High puncture protection
- Ultra compact, perfect as spare tube
- Low pressure loss
- Low rolling resistance
- Easy mounting and repair
- TPU valve shaft with bonded aluminum valve insert



GRAVEL & ALLROUND



Messingschlagel Road Concept – Gravel – the perfect symbiosis of light and gravel e-bike.


The slim carbon frame speaks a clear, modern and precise language and impresses with a clean, unagitated design with harmoniously proportioned dimensions and a sleek design language.

This gravel e-bike is powered by an ultra- lightweight and powerful Mahle X20 hub motor, which is inconspicuously concealed in the rear wheel, and a 250-cell battery that is permanently installed in the down tube. The fully integrated display in the top tube serves as the controller.

If you want to go on a longer tour again ...

No problem, we have installed a dual bottle cage and a range extender with 168 Wh capacity is also available.

MAHLE

FRAME
Carbon | S / M / L



MOTOR
MAHLE X20



BATTERY
250 Wh
+ Range Extender 168 Wh



DISPLAY
integrated HMI



WHEELSET
28"x700c



TIRE CLEARANCE
max. 45 mm



CABLE ROUTING
ICR



CHAIN/BELT
Chain

Messingschläger Road Concept – Gravel – for all those who like to discover new paths. The slim aluminium frame makes a clear, modern statement and impresses with its understated yet elegant design with harmonious proportions and a sophisticated design language. The geometry has been adapted so that suspension forks with 30 mm travel can also be fitted.

Here we rely on the Mahle X30 hub motor, which is discreetly integrated in the rear wheel, and a 250 Wh battery, which is cleverly installed in the down tube. It is controlled via the fully integrated display in the top tube, which ensures intuitive operation.

This e-bike is ideally equipped for longer tours: The dual bottle cage offers space for two bottle cages, and a range extender with 168 Wh capacity can be used for even more range.

Adventurous riders will find everything they need for long rides.

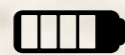
MAHLE



FRAME
Aluminium | S / M / L / XL



MOTOR
MAHLE X30



BATTERY
250 Wh
+ Range Extender 168 Wh



DISPLAY
integrated HMI



WHEELSET
28"x700c



TIRE CLEARANCE
max. 45/40 mm



CABLE ROUTING
ICR



CHAIN/BELT
Chain

MRC.G.c

MAHLE



HIGHLIGHTS / FRAME SHAPES / GEOMETRY

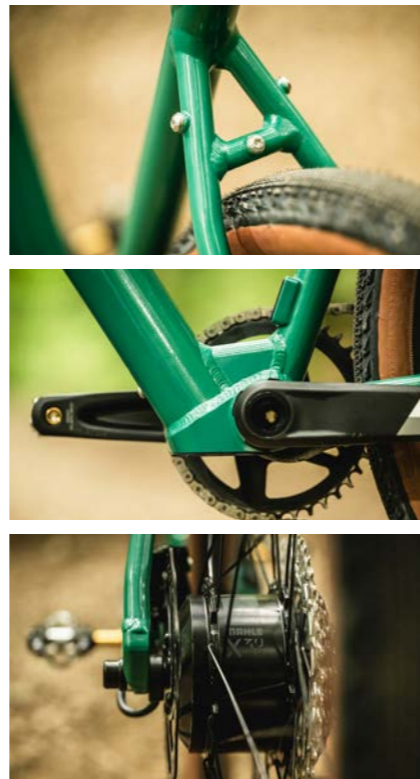
- ✓ **CARBON FRAME**
Lightweight & timeless stylish, integrated HMI (display).
- ✓ **MAHLE X20-MOTOR**
Compact, unobtrusive hub motor in the rear wheel.
- ✓ **INTEGRATED CABLE ROUTING**
All cables and hoses are inside the frame.
- ✓ **250-WH-AKKU**
Compact battery is permanently installed in the down tube.
- ✓ **RANGE EXTENDER**
Capacity of the additional battery: 168 Wh.

	S	M	L
seat tube length	490 mm	520 mm	550 mm
horizontal top tube length	530 mm	545 mm	650 mm
steerer tube	120 mm	140 mm	155 mm
chain stays	435 mm	435 mm	435 mm
steerer tubewinkel	70°	70,5°	71°
seat angle	74,5°	74°	74°
wheelbase	1032 mm	1039 mm	1050 mm
Reach	379 mm	383 mm	394 mm
Stack	543 mm	564 mm	580 mm



MRC.G.al

MAHLE



HIGHLIGHTS / FRAME SHAPES / GEOMETRY

- ✓ **ALUMINUM FRAME**
Cleaner look thanks to ground welds.
- ✓ **MAHLE X30-MOTOR**
Compact, unobtrusive hub motor in the rear wheel.
- ✓ **ICR AND ECR CABEL ROUTING POSSIBLE**
All cables and hoses are inside or outside the frame.
- ✓ **250-WH-AKKU**
A compact battery is permanently installed in the down tube.
- ✓ **RANGE EXTENDER**
Capacity of the additional battery: 168 Wh.

	S	M	L	XL
seat tube length	450 mm	480 mm	510 mm	545 mm
horizontal top tube length	535 mm	551 mm	560 mm	585 mm
steerer tube	119 mm	145 mm	157 mm	189 mm
chain stays	434 mm	434 mm	434 mm	434 mm
steerer tubewinkel	71°	71°	71°	71°
seat angle	74°	74°	74°	74°
wheelbase	1023 mm	1041 mm	1051 mm	1077 mm
Reach	370 mm	379 mm	385 mm	401 mm
Stack	577 mm	598 mm	610 mm	640 mm



Carrier and fenders
available @ www.messingschlager.com

LIGHT URBAN



Messingschläger City Concept – our idea of a light, stylish, stylish and practical e-bike for urban areas, short cycle tours or daily adventures. The e-bikes in our Light series combine timeless, simple design with modern e-technology. Thanks to this integration and the successful design, it is almost impossible to tell that our Light model is a real e-bike and can weigh less than 17 kg.


BAFANG




FRAME
Aluminium | S / M / L


MOTOR
Bafang H600


BATTERY
vollintegrierte 360 Wh


DISPLAY
DP C240


WHEELSET
28"x700c


TIRE CLEARANCE
xxx


CABLE ROUTING
semi ICR


CHAIN/BELT
Chain & Belt

MMC.Y.al

Messingschlager Youth Concept – Come on, admit it! When you were a child, you also wanted your big brother's moped. At MMC.Y.al, our commitment belongs to the youngest. The abbreviation 'Y' in the name stands for 'Youth', i.e. kids ... Youth ... Future and is the ideal addition for the modern, mobile family. Everything compactly packed into a manoeuvrable 24' or 26' children's MTB weighing less than 17 kg, with a powerful Bafang drive and high battery performance!



BAFANG



FRAME
Aluminium | 24"/26"



MOTOR
Bafang H600



BATTERY
360 Wh



DISPLAY
DP E161



WHEELSET
24"/26"



TIRE CLEARANCE
max. 60 mm

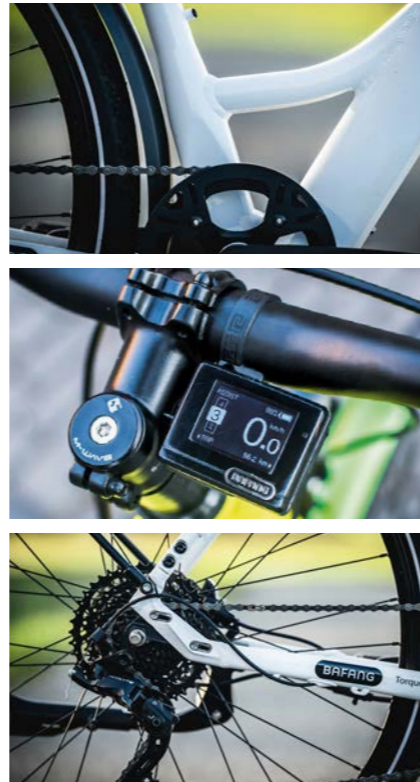


CABLE ROUTING
ECR



CHAIN/BELT
Chain

MUC.L.al



HIGHLIGHTS / FRAME SHAPES / GEOMETRY

- ✓ **ALUMINUM FRAME**
Cleaner look thanks to ground welds.
- ✓ **OPTIONAL MEN'S FRAME DIAMOND FRAME**
For a sportive look
- ✓ **CHAIN OR BELT DRIVE**
Both possible through frame opening.
- ✓ **EXTERNAL CABLE ROUTING**
All cables and hoses are outside the frame.
- ✓ **MAXIMUM TIRE CLEARANCE**
Maximum tire size 60-700c.



Wave

WAVE	S	M	L
seat tube length	460 mm	520 mm	580 mm
horizontal top tube length	565 mm	596 mm	627 mm
steerer tube	165 mm	185 mm	205 mm
chain stays	445 mm	445 mm	445 mm
steerer tube angle	69°	69°	69°
seat 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



Urban

URBAN	S	M	L	XL
seat tube length	460 mm	500 mm	540 mm	580 mm
horizontal top tube length	560 mm	570 mm	580 mm	590 mm
steerer tube	150 mm	160 mm	170 mm	180 mm
chain stays	445 mm	445 mm	445 mm	445 mm
steerer tube angle	69°	69°	69°	69°
seat 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

MMC.Y.al



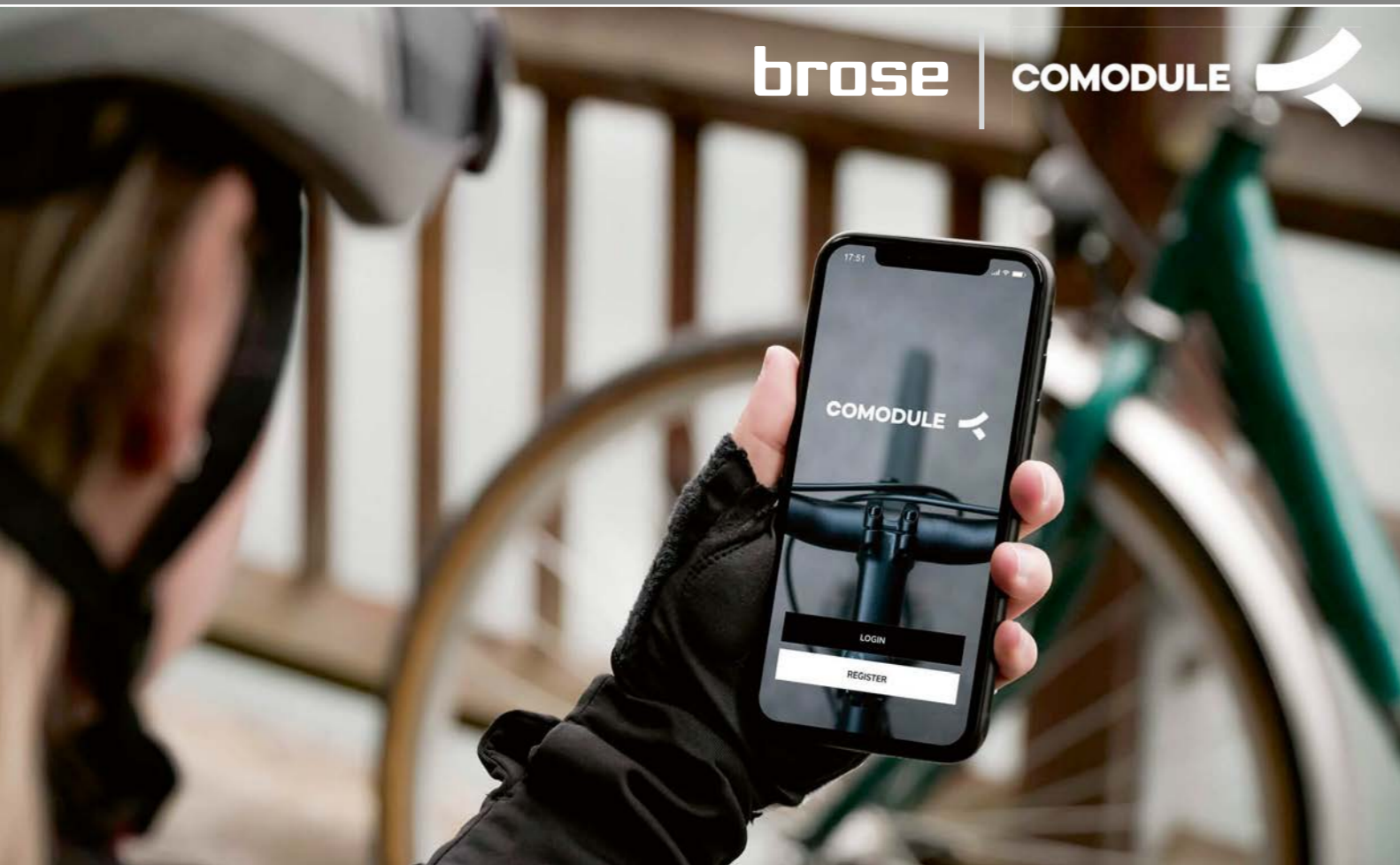
HIGHLIGHTS / FRAME SHAPES / GEOMETRY

- ✓ **ALUMINUM FRAME**
Cleaner look thanks to ground welds.
- ✓ **CHAIN OR BELT DRIVE**
Both possible through frame opening.
- ✓ **SPECIAL COMPONENTS FOR KIDS**
Grip reach for shift-/brake lever, kids' saddle
- ✓ **EXTERNAL CABLE ROUTING**
All cables and hoses are outside the frame.
- ✓ **MAXIMUM TIRE CLEARANCE**
Tire size up to 24"/26" possible.

	24"	26"
seat tube length	320 mm	350 mm
horizontal top tube length	510 mm	540 mm
steerer tube	130 mm	130 mm
chain stays	410 mm	420 mm
steerer tube angle	70,5°	69°
seat angle	73°	73°
wheelbase	972 mm	1016 mm
Reach	338 mm	357 mm
Stack	543 mm	595 mm



Kids



brose | **COMODULE**

SHIMANO | **brose** | **COMODULE**  **System**



App Connection



Service Plattform – Backend



All bike data at a glance

One app for everything

Bike computer, GPS, anti-theft device, mobile phone and fitness tracker – all in one device! The Comodule app makes it possible and ensures a clean handlebar cockpit.

Data reading made easy

Fast provision of information is essential for repairs or service work. Comodule can evaluate and export all engine data quickly and easily.

Everything under control at all times

The rider can call up all the important information in just a few simple steps. The clear, customizable menu structure does not confront anyone with unsolvable tasks.

Big Data für Brose E-Bikes

Networking and IoT are the most important trends in the digital future - why shouldn't high-tech products such as e-bikes benefit from them? Comodule opens up completely new possibilities for both riders and service companies.

With the Comodule 'Bonnie & Clyde' module integrated into the frame, all Brose e-bikes can be connected via the specially developed app. Comodule records all ride data. What does this mean in practice?

For the rider, navigation with tracking of all riding data is the top priority, which can be displayed in a customised dashboard. The integrated GPS tracking also enables 'Find my Bike' live localisation if the bike has been stolen. The alarm is triggered by an integrated motion alarm via push message.

The automatic recording of all ride and engine data, such as temperature and power output, supports workshops in troubleshooting and can be used anonymously in fleet management.

This means that drivers and technicians can maximise comfort, safety and information with Comodule.

brose

245024 IOT MODUL ›BONNIE & CLYDE‹

- **GPS Tracking-Modul**
- direkte **Anbindung am Motorsystem**
- personalisierbares Dashboard
- Aufzeichnung aller Routen und **Export zu Strava**
- In-App Fahrzeugprofil
- Live Standort und **Bewegungsalarm per Pushnachricht**

IOT MODULE ›BONNIE & CLYDE‹

- **GPS tracking module**
- direct **connection to engine system**
- customizable dashboard
- recording of all routes and **export to Strava**
- in-app vehicle profile
- live location and **motion alert via push notification**



SHIMANO

245027 IOT MODUL ›BONNIE & CLYDE‹

- **GPS Tracking-Modul**
- direkte **Anbindung am Motorsystem**
- personalisierbares Dashboard
- Aufzeichnung aller Routen und **Export zu Strava**
- In-App Fahrzeugprofil
- Live Standort und **Bewegungsalarm per Pushnachricht**

IOT MODULE ›BONNIE & CLYDE‹

- **GPS tracking module**
- direct **connection to engine system**
- customizable dashboard
- recording of all routes and **export to Strava**
- in-app vehicle profile
- live location and **motion alert via push notification**



We place great emphasis on service

A product is only as good as its service. We strive every day to ensure lasting customer satisfaction. Our e-mobility service center is characterized by rapid response times and competent contact persons. Messingschlager offers comprehensive services for OEM customers and dealers. Our service and test center can be reached via a toll-free hotline. We keep all important spare parts in stock,

which can be delivered to you within a few business days. We have service satellites in various countries to enable us to respond even faster on-site with service, spare parts, and batteries. This also ensures that dealers can be trained internationally. We also offer regular workshops for manufacturers and specialist dealers to share our system expertise. This provides the opportunity to quickly identify

and resolve sources of errors. To ensure we can respond promptly to service calls, we also carry all the tools necessary for service.



Services

- Documentation of work steps for effective and time-saving installation
- Installation training regarding cable routing and system connection
- Installation training for EOL (End of Line) testing and installation of the appropriate, customer-specific firmware
- OEM hotline at the e-mobility service center
- Stocking of all critical original spare parts and prompt delivery
- General training regarding the system and all necessary diagnostic solutions for all components (motor, display, battery)
- Quick response in case of questions
- Provision of all tools required by the OEM
- Web-based OEM & specialist dealer service tool

e-mobility@messingschlager.com

www.messingschlager.com/de/ebike

CONTACT

To ensure that we can process your e-bike system service claims even faster and more conveniently, please note the following:

For questions or complaints regarding our Premium 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 is available Monday to Thursday from 8:00 a.m. to 4:00 p.m., and Friday from 8:00 a.m. to 1:00 p.m.

Further information about our offerings and services can be found on our website:

www.messingschlager.com/de/ebike





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