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# MAGURA

**FABIO WIBMER  
SIGNATURE EDITION**

**MAGURA COCKPIT  
INTEGRATION**

**SETUP-CHECK  
WITH LOIC BRUNI**

**TIPS FOR  
COOLER DAYS**

MTB — GRAVITY

# STORIES

**No. 1/2020**



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# NEW NEW

## MAGURA PRODUCT INNOVATIONS

### MDR-C ROTOR WITH CENTERLOCK MOUNT AND A NEW DIAMETER

For greater compatibility with hub standards, MAGURA is now offering its popular MDR-C rotor with a centerlock mount in addition to the 6-hole version. This attractively priced all-rounder delivers solid performance for trail bikes and eMTBs, and it's perfect for tough city use. The rigid design reduces vibration, contributing to quieter operation.

The 6-hole version of the MDR-C is now also available with a 160 mm diameter, and the two-piece MDR-P rotor additionally comes in a 180 mm version.



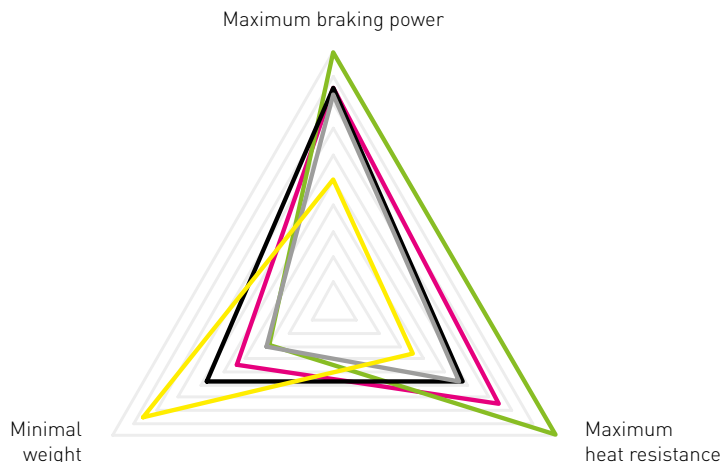
**MDR-C**  
30,00 € RRP

**MDR-P**  
55,00 € RRP

**MDR-C CL**  
35,00 € RRP

### MAGURA ROTORS IN COMPARISON

- MDR-P
- MDR-C
- MDR-C CL
- Storm SL.2
- Storm HC



**#CUSTOMIZEYOURBRAKE** CONTINUES: IN 2021, MAGURA WILL BE OFFERING NEW COMPONENTS AND A NEW ROTOR, GIVING YOU NEW OPTIONS TO CUSTOMIZE YOUR BRAKE FOR BETTER PERFORMANCE, ERGONOMICS AND DESIGN. WHY COMPROMISE? AFTER ALL, IT'S YOUR BIKE.

#### **SHIFTMIX 4 HANDLEBAR CLAMP FOR SHIMANO I-SPEC EV SHIFTER**

The new Shiftmix 4 handlebar clamp combines a Shimano I-Spec EV shifter and a MAGURA brake master in a single clamp. The result is a clean, uncluttered look. The I-Spec EV, Shimano's latest integrated shift/brake system, is used in many 12-speed shifters in the newest XTR, XT, SLX and Deore shift groups.



**SHIFTMIX 4  
HANDLEBAR CLAMP**  
from 20,90 € RRP



**HC-W LEVER BLADE**  
39,90 € RRP

#### **HC WIDE REACH LEVER BLADE**

Inspired by the requirements of Downhill World Champion Loïc Bruni, the new HC WIDE REACH lever blade (HC-W) is optimized for large hands and offers a wide lever width adjustment.

In contrast to the weight-optimized 3D-printed version (HC LOIC BRUNI), the new HC WIDE REACH blade is made of die-cast aluminium, contributing to a very attractive price. It's available in two versions – for Carbotecture® and for Carbotecture SL® brake masters – assuring compatibility with all MAGURA MT disc brakes for model year 2015 and later.

# BRAKE LIKE A PRO!

MT5 FABIO WIBMER  
SIGNATURE EDITION

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**"For massive lines you need brakes with massive power! With my new FABIO WIBMER Signature Edition nothing can hold you back from tricks to the trails." – Fabio Wibmer**

The new MT5 FABIO WIBMER Signature Edition offers everything you need to hone your biking skills. The powerful 4-piston caliper provides sufficient braking force and heat resistance, and the ergonomic 1-finger HC lever blade gives you fingertip control.

A special Fabio Wibmer Design with unbeatable value for money.

#whostopsyou, nobody just MAGURA

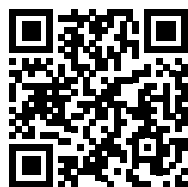








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When Fabio Wibmer goes to land on a spot as small as a five pound note from a height of more than 16 feet, time seems to stand still.

→ [Click here to see the MAGURA video with Fabio Wibmer.](#)







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# WIN WIN WIN WIN W



## FABIO'S SETUP

MT5 FABIO WIBMER 269,90 € RRP

STORM HC 30,00 € RRP



DO YOU WANT TO HAVE THE SAME BRAKE ON YOUR BIKE AS FABIO? THEN TAKE PART IN OUR PRIZE DRAW. WE'RE RAFFLING 3 x 1 MAGURA MT5 FABIO WIBMER SIGNATURE EDITION BRAKE SETS, INCLUDING STORM HC ROTORS.

CLICK ON [WWW.MAGURA.COM/WIN-MTFABIO](http://WWW.MAGURA.COM/WIN-MTFABIO) AND TRY YOUR LUCK!

Closing date: 31 December 2020



M

C





# PERFECT INTEGRATION. A BIKE FROM THE FUTURE.

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**What will bikes look like in the future? The new MAGURA MCi concept bike, which completely dispenses with external tubings and cables, gives us a look.**

MAGURA Cockpit Integration (MCi) is the first system ever in which an hydraulic brake is fully integrated in the handlebar. Installed in an innovative concept bike for cross-country use, it shows how the design language of the cockpit can be revolutionized.

Besides MCi, the bike features a unique stem and innovative headset. Together they enable the invisible tubing routing. The result is a clean design, better aerodynamics and greater protection for the hydraulic components inside.

The heart of the system is a cylinder located internally in the handlebar grip area. Despite this integration, the reservoir dimensions and piston diameter have been kept as the MAGURA MT series. This gives the MCi the same stability and braking power as conventional MAGURA MT brakes.

## CLEVERLY INTEGRATED

The brake tubings are also laid inside the handlebar. Running through the stem unit and steering tube through special openings in the handlebar. The front brake tubing passes through a prepared opening in the stem unit directly to the tubing routing on the suspension fork leading directly to the brake caliper. This is the only visible tubing on the bike. The tubing for the rear brake passes through the headset system into the frame. The diameter of the upper bearing is oversized to enable correct routing of the tubing between the steerer tube and the bearing. A reducing sleeve provides a guide hole for the tubing – allowing an invisible entry into the frame.

Development of the system focused on user-friendly service and maintenance as well as tidy cockpit integration. The MCi is the first MAGURA product to use the new Easy Link cable coupling. This is a special plug-in connector that links the cockpit unit and the tubing. During a service, the cockpit unit can easily be separated from the tubing within the frame. Brake bleeding is carried out by means of the proven MAGURA Easy Bleed Technology and a bleed screw on the end of the handlebar.



THE TUBING RUN INTERNALLY THROUGH THE COCKPIT AREA AND FRAME.

## MCi – THE DESIGN OF THE FUTURE

This concept bike can be used without restrictions as a mountain bike. Due to the use of the MCi, a wireless gear system and the wireless MAGURA VYRON eLECT seatpost this bike can be kept clean of almost all distracting tubings and cables.

### Rollout:

MCi will be available in fully assembled bikes starting in autumn 2020. There are no plans for an after-market version in the near future.



FOR DETAILS ON THE BIKE AND MCi SEE  
THE VIDEO "MAGURA MCi CONCEPT BIKE".



FU  
FU  
FU







# SETUP CHECK

TAILOR-MADE  
FOR THE WORLD CHAMPION!



WORLD CHAMPION BIKE - SPECIALIZED DEMO WITH MAGURA MT7 DISC BRAKES

# K

**"Compromise" is a word that DH world champion Loïc Bruni and his mechanic Jack never use. In World Cup competition the difference between victory and defeat is measured in fractions of a second. Every detail of Loïc's Specialized Demo 8 downhill bike is tailored to his preferences. You won't find a compromise anywhere.**

Even the wheel sizes are special. Loïc's Demo rolls on a 27.5" and 29" mix. The larger front wheel runs over obstacles more easily to provide a smoother ride, while the smaller rear wheel gives the bike greater agility and flattens the steering angle. In addition, the geometry of the rear frame, provided by Specialized only for the team, is optimized to meet Loïc's requirements.

The chassis components come from Öhlins, a specialist company in Sweden. When it comes to fine-tuning, Loïc relies on his longtime mechanic Jack and a special bike for recording data. The athlete's feeling is of course important, but for critical adjustments the two men use data recorded from several training runs. Sensors on the chassis, brake and frame register every movement and provide information on the spring travel. This results in recommendations for the setup of the fork and shock absorber.

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# LOIC BRUNI

LOIC BRUNI  
LOIC BRUNI  
LOIC BRUNI  
LOIC BRUNI  
LOIC BRUNI  
LOIC BRUNI

A COMPARISON CHART SHOWING THE PROPERTIES OF ALL MAGURA LEVER BLADES CAN BE FOUND AT [MAGURA.COM/CUSTOMIZE](http://MAGURA.COM/CUSTOMIZE).



LOIC BRUNI'S FIRST SKETCH FOR HIS CUSTOM-MADE LEVER BLADE.

## LOIC'S SETUP

MAGURA MT7	219,90 € RRP
HC LOIC BRUNI LEVER BLADE	79,90 € RRP
STORM HC	30,00 € RRP



RUGGED FOUR-PISTON BRAKE CALIPERS FOR THE TOUGHEST DOWNHILL TRACKS IN THE WORLD.



In his work with MAGURA, Loïc quickly showed that he had some very clear ideas about the brake. Ergonomics and operation were his top priorities. One day at lunch with MAGURA developers, he drew a first sketch of the lever shape on a sheet of paper. This was the starting point for a long process consisting of development, production of initial prototypes and countless test runs.

Whereas many athletes like to have the lever blade as close as possible to the grip, Loïc wants it far away from the handlebar. The custom-made HC LOIC BRUNI lever blade is optimized for this reach, so that it's parallel to the handlebar when at the bite point. At this setting a regular HC lever blade would have a slightly tilted grip area. Loïc also wanted the lever to

have a hard translation ratio for full on/off braking power – all or nothing.

In its final design the lever was made of aluminium and manufactured by a 3D printer. This process allowed the development team to manufacture the lever in a very short time and without detriment to rigidity or weight. Special hollow spaces in the lever give it roughly the same weight as a comparable lever made of carbon-fibre-reinforced plastic.

You too can benefit from MAGURA's experience with professional athletes. Find the lever that's perfect for you. Why compromise? You'll find a diagram with comparisons of all MAGURA lever blades at [magura.com/customize](https://magura.com/customize).



# CHANGING A LEVER BLADE IN 6 STEPS!



Advanced

The following pictures guide you through a lever blade change on a MAGURA MT Carbotecture SL® brake master.

(MT6, MT8, MT7, MT TRAIL CARBON / SL, from MY2015)



**1** — First remove the BAT adjuster.  
To do this press the bayonett clip  
down and turn it by 90°.



**2** — Be careful while removing the  
bayonett clip and spring. Now  
actuate the lever blade and pull  
the BAT adjuster out of the body.



# SERVICE TIP

# TIPPPPP





# PPPPPPPPPP PPPP SERVICE

**3** — Remove the cover on both sides and place the master on an object with a hole (e.g. an adhesive tape roll). **Important:** Make sure that the master is positioned so that it represents the left master.

**4** — Now carefully tap out the lever blade bearing pin with a punch of max. 3.5 mm diameter (the lever blade bearing pin does not have to be completely removed, approx. 2 mm can remain in the master) and remove the lever blade.

**5** — Insert the new lever blade in the master and position it so that the openings are in line with each other. Then turn the master to the right and carefully tap in the lever blade bearing pin again. Finishing by using a punch until flush.

**6** — Lastly replace the cover and replace the BAT adjuster, finally check that the master is functioning correctly.



**MAGURA tech videos:** Take a look at our tech videos and learn how to optimize your performance. You'll also find instructions on changing a lever blade for Carbotecture® brake masters (MT5, MT4, MT TRAIL SPORT, MT SPORT from MY2015).



# Q&A TIME

## THREE QUESTIONS FOR BERND KÄSTLE

Ask us your questions on the MAGURA Facebook or Instagram channels.

### WHY MUST I BED-IN MY BRAKE?

Correct running in makes a big difference. It allows the brake pad and rotor to adjust to each other. Small imperfections are evened out, optimizing the friction surface. Bedding-in also releases small amounts of gas and loosens residue from the production process. The pad and rotor need to be bed-in to achieve a perfect match, after which they will deliver maximum braking power and have a long lifetime. To bed-in your brakes, accelerate to a speed of 30 km/h on a level road. Use one brake to decelerate to a standstill. Repeat this procedure at least 30 times per brake.

### WHY DOES MAGURA USE ROYAL BLOOD MINERAL OIL INSTEAD OF DOT BRAKE FLUID?

In contrast to DOT brake fluids, mineral oil doesn't age, which means it delivers the same performance for years. Moreover, DOT brake fluids draw water over time and lose heat resistance. The boiling point, originally very high, can sink to become a low wet boiling point. This can noticeably affect brake performance. DOT brake fluids are also toxic and corrosive. Even a small drop can attack the paint on a bike or cause skin injury. So all in all, mineral oil is much easier to handle.

**NATIONALITY:**

Swabian  
(south-western Germany)

**WITH MAGURA:**

For almost 30 years

**CURRENT ACTIVITY:**

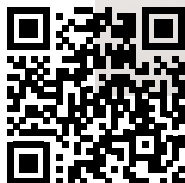
Team leader for  
Global Tech Support

**KNOWN AS:**

For years, the face of MA-  
GURA tech videos and the  
originator of MAGURA Race  
Support

**CURRENT BIKE:**

Rotwild E750 E-MTB



**CATCH BERND KÄSTLE IN ACTION  
IN THE MAGURA TECH VIDEOS.**



Bernd Kästle is known among his colleagues as a walking MAGURA encyclopaedia. He's had his hand in every MAGURA project, from the first Hydro-Stop to the MAGURA MT. If there's something he doesn't

know, then nobody knows it. Here he answers some of the most frequent questions from our social media chat.

## **WHAT IS CARBOTECTURE® AND WHY IS IT USED WITH MAGURA MT BRAKE MASTERS?**

When we developed the MAGURA MT, we looked for a material that combined low weight with outstanding tensile and breaking strength. The name Carbotecture® comes from the words carbon and architecture. Put simply, this is a synthetic material that gets its superb qualities from carbon fibres. Carbotecture® offers significant advantages compared to classic lightweight aluminium – it's 50 % lighter than aluminium, but with the same tensile and breaking strength. The fact that this material is used in motorcycles shows that it's able to meet the toughest demands. BMW also relies on MAGURA clutch masters made of Carbotecture® in its GS models.

# GET READY FOR AUTUMN

6 TIPS FOR  
COOLER DAYS!



## TIP 1: OPT FOR DURABILITY.

This autumn, avoid unpleasant surprises in next spring's bike check by investing in components that can last. Robust bearings or a good second running wheel can lower the risk of defects. MAGURA's #customizeyourbrake program also offers various brake pads to optimize your setup. If you're in doubt, durable SPORT or COMFORT pads are your best choice..

For more fun on slippery trails, we also recommend a setup that lets you do some fine tuning. The HC3 lever blade with Ratio Adjust allows you to reduce your braking power slightly on slippery trails and get a finer degree of modulation. You'll find it easier to locate that sweet spot between a slipping wheel and a strong grip. The HC3 lever was developed with Danny MacAskill so that he could continually adjust his brake to conditions on Scotland's varying terrain. Try it! (available for MAGURA models with a Carbotecture SL® brake master, from MY2015)



**MAGURA BRAKE PADS**  
from 15,50 € RRP



**MAGURA HC3 LEVER BLADE**  
67,90 € RRP

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**SCHWALBE NOBBY NIC**  
from 59,90 € RRP

## TIP 2: PREFER TRACTION TO A RACING SETUP.

Trails that are a piece of cake in summer can easily become treacherous in autumn. That's when it's time to switch from tires with low rolling resistance to big-volume tires with a good grip. Likewise, cross-country racers should put away their semi-slick tires and select deep-treaded touring tires for better control.

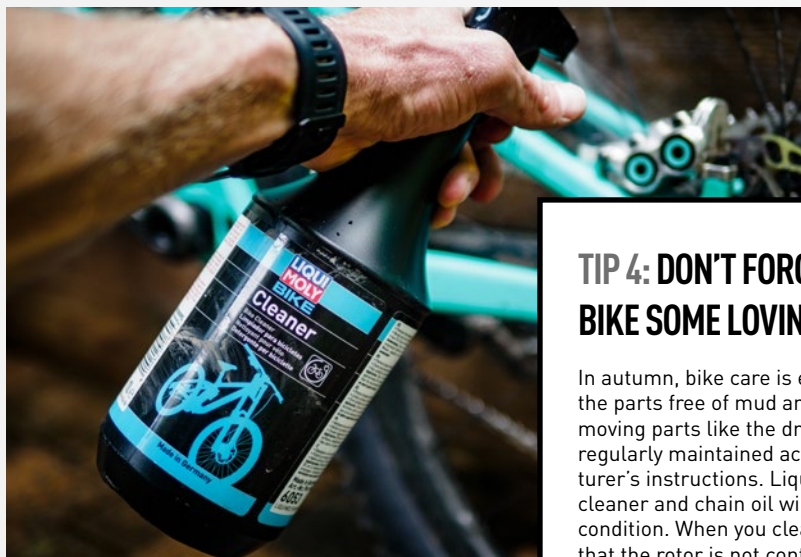


## TIP 3: KEEP WARM.

"There's no such thing as bad weather, only unsuitable clothing" – worn-out wisdom maybe, but there's truth in it. In autumn you should wear several layers of clothing with good ventilation especially on uphill stretches and so you're protected from the cold on descents. Nothing is worse than starting a descent when you're sweaty. The MAGURA Primaloft jacket is lined in the front to protect you against the cold but fits in a small space so that you can stow it in a hip bag or backpack.



**MAGURA PRIMALOFT WINDBLOCK JACKET**  
150,00 € RRP

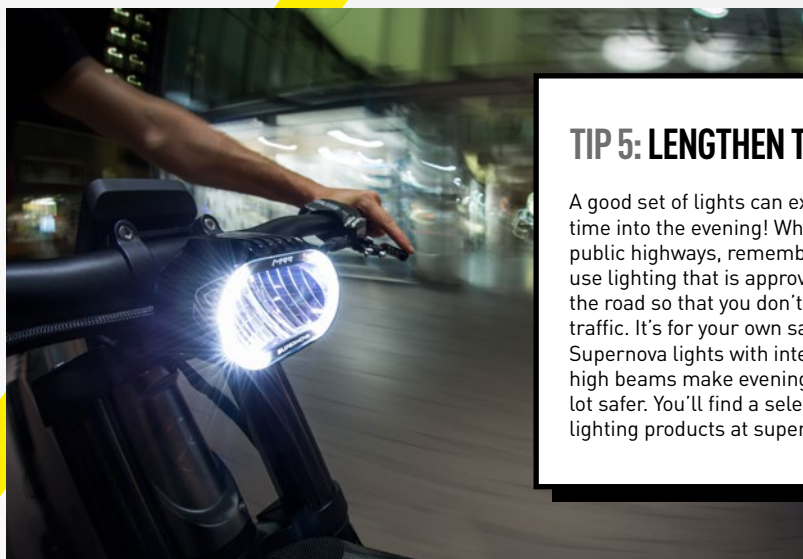


**LIQUI MOLY BIKE CLEANER**  
13,19 € RRP

## TIP 4: DON'T FORGET TO GIVE YOUR BIKE SOME LOVING CARE.

In autumn, bike care is especially important. Keep the parts free of mud and dirt, and make sure that moving parts like the drive and suspension are regularly maintained according to the manufacturer's instructions. Liqui Moly bike cleaner, chain cleaner and chain oil will keep your bike in top condition. When you clean your bike, make sure that the rotor is not contaminated by oil or similar substances.

# ON READY



## TIP 5: LENGTHEN THE DAY.

A good set of lights can extend your ride time into the evening! While riding on public highways, remember that you must use lighting that is approved for use on the road so that you don't blind oncoming traffic. It's for your own safety. The new Supernova lights with integrated low and high beams make evening trail rides a lot safer. You'll find a selection of great lighting products at [supernova-lights.de](http://supernova-lights.de).

**SUPERNOVA M99 MINI PRO**  
299,00 € RRP

## TIP 6: HAVE FUN!

Finally and most important, put Strava and other kinds of tracking out of your mind. Ride to have fun. Practice your technique on slippery trails or compete with friends. Trips on cold days can be a chance to enjoy company. Chat while you ride or stop on the way for a warm drink. It will lift everyone's spirits. Riding together makes even bad weather bearable.



# READY BE READY BE READY



# MAGURA

THREE GOOD BIKES  
FOR COMMUTING

THIS IS HOW OUR  
EMPLOYEES COMMUTE

MAGURA  
eSTOP

GREATER SAFETY  
FOR E-BIKES

CITY — TREKKING

# STORIES

No. 1/2020



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GREATER SAFETY  
FOR E-BIKES

# THREE GOOD BIKES FOR COMMUTING

## No more excuses: Three novel bike concepts for commuters

"My commute is too long." "A bike is too unwieldy." "I can't carry anything on a bike."

There are plenty of arguments against commuting by bike. We've looked at three interesting solutions that take the wind out of all these excuses. So think about it!



## EXCUSE 1: MY COMMUTE IS TOO LONG.

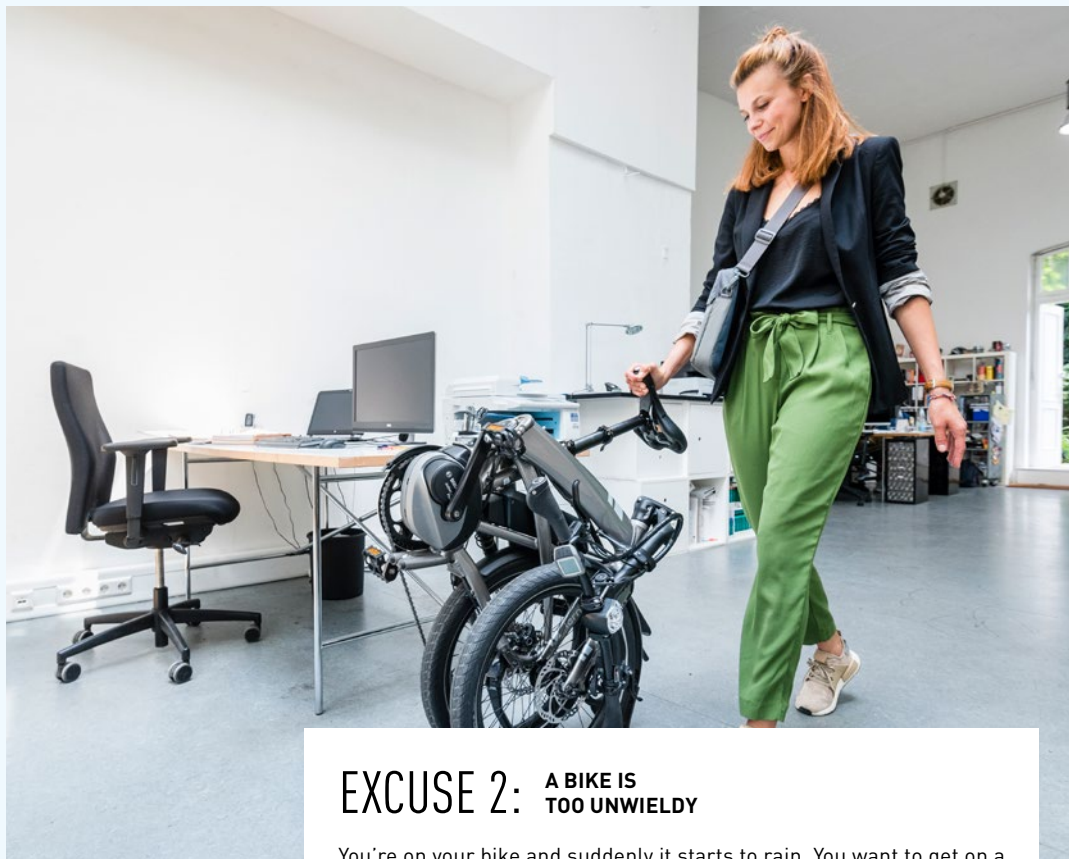
For those who have a long ride to work, S-pedelecs are a particularly good solution. Their pedalling assistance of up to 45 km/h compares favourably with 25 km/h for normal e-bikes. The gain in speed can make the ride to work a pleasure even over long stretches.

Powered by a Bosch Performance Speed motor, the Haibike SDURO provides good acceleration, and with MAGURA MT4e brakes it comes to a safe stop even at high speeds. A brake light switch in the lever blade automatically activates the tail light even before braking action starts, providing a warning to vehicles behind.



### HAIBIKE SDURO TREKKING S 9.0

MAGURA MT4e / Bosch Performance Speed 45 km/h  
Bosch PowerTube 500 Wh / 27.5" / 3.999,00 € RRP



## EXCUSE 2: **A BIKE IS TOO UNWIELDY**

You're on your bike and suddenly it starts to rain. You want to get on a train but there's no good place to put the bike.

The Tern Vektron can be folded in 10 seconds whenever you have this kind of change in plans. In contrast to e-bikes, which are often heavy and bulky, this innovative folding e-bike is very adaptable. You can take it on a train, park it briefly in a hallway or put it into the boot of your car on the way to your next tour. The Tern can do it all.



### **TERN FOLDABLE E-BIKE VEKTRON S10**

MAGURA MT4 / Bosch Active Line Plus 25 km/h  
Bosch PowerPack 400 Wh / 20" / 3.499,00 € RRP



### EXCUSE 3: THERE'S TOO LITTLE STORAGE SPACE AND WHERE CAN I PUT THE KIDS?

There's no such thing as impossible. With the Cube Cargo Dual Hybrid you can move loads that even a minicar would have trouble with. What's more, a Bosch Cargoline drive lightens your work. Two 500 Wh batteries give you an enormous range, and powerful MAGURA 4-piston hydraulic disc brakes bring you to a safe stop in any weather.

The loading surface can be quickly converted for transporting children.



#### CUBE CARGO DUAL HYBRID

MAGURA CME / Bosch Drive Unit Cargo Line Generation 4  
2×Bosch Powerpack 500 Wh / 20+27.5" / 5.458,00 € RRP



# THIS IS HOW OUR EMPLOYEES COMMUTE

**Why not use your daily commute as a way to stay in shape? You could even dispense with a car entirely and set your sights on a carbon-neutral life. There are many good reasons to commute with a bike, but we're sure about one thing: every minute on a bike is a minute well spent!**

We've asked three MAGURA employees about their motivation for commuting on a bike and what kind of bike they use.



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**FABIAN (PRODUCT MANAGEMENT)**

**BIKE:**  
YT Jeffsy Trailfully

**BRAKES:**  
MAGURA MT7  
Raceline

## ENJOYER & ADVENTURER

"My morning trip to work is eight kilometres of biking pleasure. I need about 30 minutes to get from my house on the Swabian Alb to our company down in the valley.

For three-quarters of the route I'm on a trail – perfect for letting my thoughts run free, testing new parts and having some fun. At the end of a working day I have an ascent of 350 metres, but I take it fairly easy and use the time to think about my day – some of my best ideas come to me when I'm biking."



REINER (DEVELOPMENT)

## ENVIRONMENTALIST

.....

**BIKE:**

VSPACE Titan  
Singlespeeder

**BRAKES:**

MAGURA MT6  
and Marta

"Cars have never been important to me. I've got a thing about bikes, and I keep a variety of models in the basement. When I ride to work I like to keep it simple. Often I take my Titan Singlespeeder.

It's robust and does well even in bad winter weather. I commute by bike in order to unwind a little and experience nature. I do myself a favour. Traffic has increased in recent years, even in the hilly area where I live. A bike is a smart alternative to a car. And of course I like to have some fun on the trail after work!"

# BIKE TO WORK WORK TO BIKE





And how do you commute? Don't think up excuses.  
Biking will make you feel good about yourself! **#whostopsyou**



**DOMINIK (MARKETING)**

**RACER**



6 /

.....

**BIKE:**

Müsing Petrol  
Racefully

**BRAKES:**

MAGURA MT8  
Raceline

"My trip to work is an effective way to make training a part of my day. If I didn't use a bike, it would be hard for me to stay in shape alongside my job and be able to take part in summer marathons. And frankly, it's good to be forced to ride a bike after a long day at work.

When I take a car, I lose my discipline and don't have the energy for sport. I tend to end up on the couch."







# MAGURA eSTOP – MAXIMUM PERFORMANCE AND SAFETY FOR E-BIKES

/11

Riding uphill is lots of fun with an e-bike. But downhill, the increased weight and higher speeds pose new challenges for riders and materials. To better meet the special requirements of e-bikes even better, MAGURA offers specially optimized components: MAGURA E-Bike Optimized.

On an e-bike a strong, reliable brake is essential. There's almost no other kind of bike in which good braking performance is so important because the higher weight means greater wear and longer braking distances. Not all brakes are able to overcome these challenges equally.

Three brake characteristics are especially important in an e-bike: heat resistance, brake force and durability. MAGURA's engineers set themselves the task of optimizing all three in one system. The newly developed eSTOP brake system consists of three perfectly matched components: eSTOP brake models, optimized rotors and the new SPORT brake pad.

The new **rotors** are specially reinforced to provide increased lateral rigidity and heat resistance with reduced vibration. The flagship of the eSTOP components is the new MDR-P rotor. A special feature of the two-piece rotor is the patented interlocking of the outer and inner rings (Dovetail Interlink technology). The interlocking provides additional support for the inner ring if the outer ring expands due to heat.

# MAGURA E-COMPETENCE

For the first time, the two-piece MDR-P is now available in 220 mm diameter, offering optimum braking performance even under high continuous loads. The new rotor diameter offers 10% more braking force for the same manual force. The higher mass of the disc also increases the heat resistance and reduces brake pad wear by 15%.



The new **SPORT brake pad** makes the eSTOP system especially reliable. A new brake pad mixture noticeably reduces wear, and thanks to its shorter bedding-in time it is ready for use very quickly.

All parts of the eSTOP system are available as a complete brake or as upgrade kits. The **eSTOP brake models** rely entirely on components optimized for e-bikes and are available in 2-piston and 4-piston versions. Based on the features of the proven MT series, both versions give riders even greater braking force and stability when used in combination with MDR-C or MDR-P rotors, which are optimized for the special requirements of e-bikes.

To upgrade your existing MT brakes MAGURA offers attractively priced kits consisting of brake pads and a rotor as well as individual spare parts.





# MAGURA HS SERVICE TIP

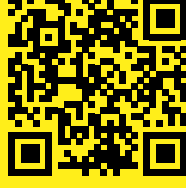
## DETECTING BRAKE PAD WEAR AND PERFORMING MAINTENANCE



Beginner

For years, the MAGURA HS has been the favourite brake of world tourers, everyday cyclists and technology enthusiasts alike. That's because these hydraulic rim brakes from Bad Urach are both reliable and easy to maintain. As a rule, if you check the pads regularly you can count on years of dependable performance.

Here are the steps for detecting brake pad wear and replacing pads if necessary.



Watch the tech video about the assembly of a HS brake.



### CHECKING

MAGURA brake pads are known for their excellent braking performance and durability. Most riders will never have to replace them. But if this does become necessary, you'll easily see it because the wear marks on the pad will no longer be visible or the grooves will be faint. If the grooves are considerably reduced, you should adjust the pads of your HS brake. If they've totally disappeared, we recommend replacement.

**Tip:** Pads that are unevenly worn or worn at an angle are a sign of incorrect brake cylinder alignment. To rectify this, contact your dealer or align the cylinder with the help of MAGURA tech videos.





## ADJUSTMENT FOR WEAR

A worn brake pad lengthens the lever travel and makes braking unpleasant. To adjust the lever travel, screw in the pad wear adjustment until the lever blade is parallel to the handlebar grip when it's at the bite point. Adjustment can be performed without tools with the HS22 and HS33 models. With the HS11 you'll need a Torx T25 tool.



A list of brake pad versions is available at [magura.com](https://www.magura.com).



## REPLACEMENT

A worn out pad can be replaced in a few easy steps. Unscrew the pad wear adjustment, open the quick-release lever at the brake cylinder and remove the wheel.

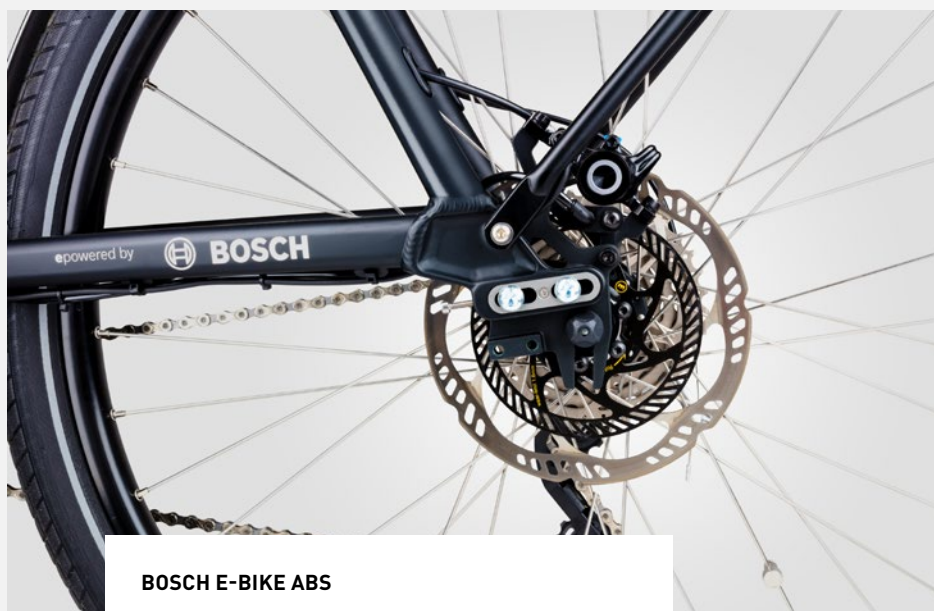


Then you can simply unclip the pads. After you've changed the pads, correct their alignment if necessary so that they are centred and parallel to the rim.



# NEW ON THE MARKET: INNOVATIONS FOR GREATER SAFETY ON E-BIKES

**HIGHER – FASTER – FURTHER. But also safer? Motor-assisted e-bikes put smiles on riders' faces, but higher speeds come with increased safety requirements. Here are some innovations that will keep you safe.**



Not available in the aftermarket.

bosch-ebike.com

## **BOSCH E-BIKE ABS**

ABS, which has ensured greater safety in critical situations in cars and motorcycles for years, is now also available in the e-bike sector. In cooperation with MAGURA, Bosch has brought out the first volume-manufactured bicycle ABS system. ABS is especially advantageous for e-bikes, which are a little heavier and faster. The benefits are important in hectic city traffic and on wet roads. Sophisticated sensors prevent going over the handlebars and sliding tires, even in shock braking or on loose surfaces like gravel.



# SAFETY MATTERS

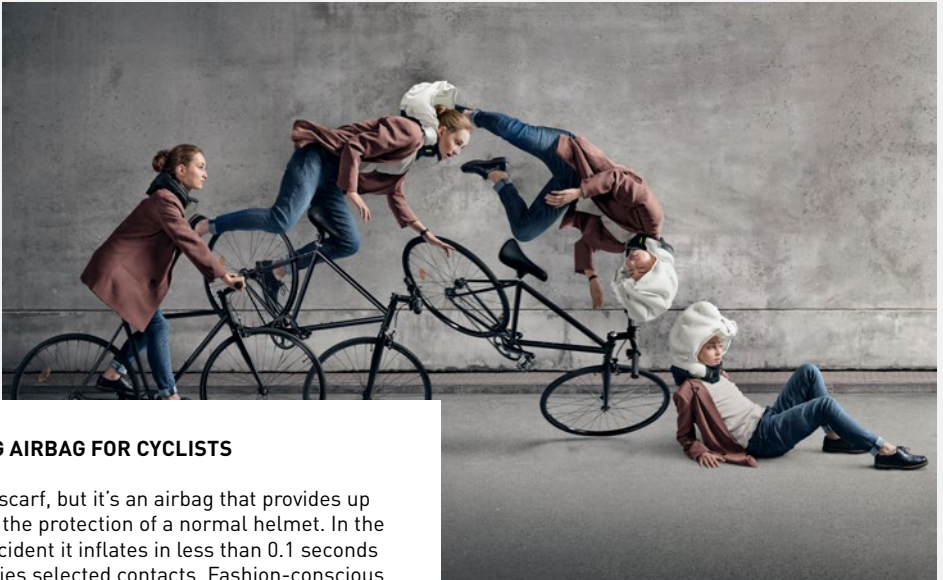


### SUPERNOVA HIGH BEAM

Supernova was the first manufacturer to launch an approved high beam for bicycles – the M99 MINI PRO25. It not only gives cyclists clear, long-range night vision, it also offers brilliant illumination and increases the safety factor many times over. For the first time ever, legally approved bicycle lights provide bright illumination for unclear terrain. Now bikers can see hanging branches, signs, junctions and hardly visible pedestrians much faster. In city traffic it's easy to switch to low beam.

299,00 € RRP

[supernova-lights.com](http://supernova-lights.com)



### THE HÖVDING AIRBAG FOR CYCLISTS

It looks like a scarf, but it's an airbag that provides up to eight times the protection of a normal helmet. In the event of an accident it inflates in less than 0.1 seconds and even notifies selected contacts. Fashion-conscious cyclists have a choice of numerous design options and will be glad to know that the airbag does not interfere with hairstyles.

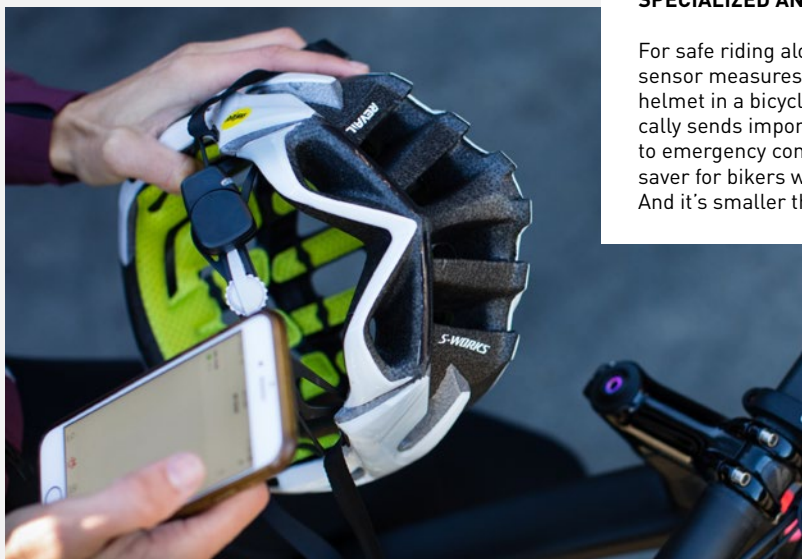
299,95 € RRP

[hövding.com](http://hövding.com)



### SPECIALIZED ANGI CRASH SENSOR

For safe riding alone. The Angi crash sensor measures the forces that act on a helmet in a bicycle crash and automatically sends important location information to emergency contacts. Angi can be a life-saver for bikers who are often out alone. And it's smaller than a matchbox.

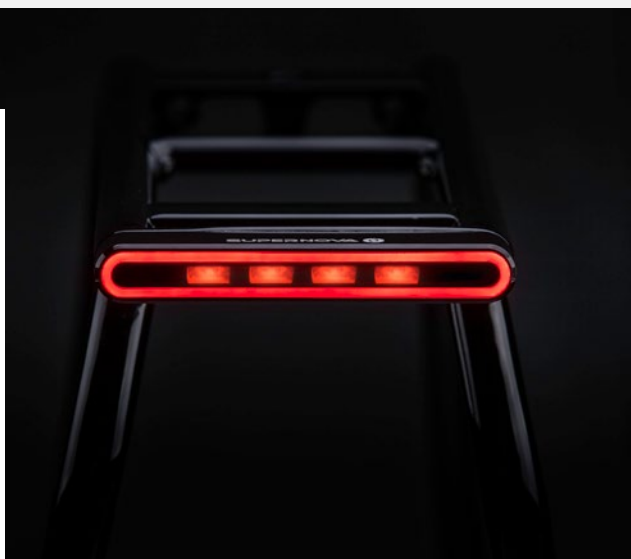


49,90 € RRP

[specialized.com](https://specialized.com)

### MAGURA BRAKE LIGHT SWITCH

An optional switch in the lever blade of MAGURA MTe models activates the tail light before braking action occurs, giving a warning to vehicles behind.



Not available in the aftermarket.

[magura.com](https://magura.com)