HELLA GUTMANN




# mega macs X

## The future of vehicle diagnostics

## has arrived

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# mega macs X –

# putting the power in your hands



**The new and highly innovative mega macs X from Hella Gutmann Solutions is a revolution in vehicle diagnostics. A flexible, modular system with state-of-the-art diagnostic technology at its core, a range of software options and accessories ensures the mega macs X provides the optimal diagnostic solution whatever your workshop requirements may be, now and as your needs grow.**



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# Defying convention. Shifting expectations

**At Hella Gutmann Solutons, innovation has always been at the heart of our business. The mega macs X is a complete re-think of vehicle diagnostics resulting from a realisation that today's workshops need a flexible and adaptable diagnostic solution to be able to keep pace with the rapid advances in vehicle technology. By isolating the core components of diagnostic device and making each element fully customisable, mega macs X is an innovative solution that offers exceptional flexibility a wide range of additional benefits.**

### COST-EFFECTIVE

With four software modules providing varying degrees of functionality, from basic features to advanced capabilities, with mega macs X you pay only for what you need.

### FLEXIBLE

Choose the appropriate software module for your workshop's requirements and upgrade easily at any time.

### USER-FRIENDLY

With all diagnostic procedures operated using a separate display and input device of your choosing – whether a tablet, notebook or PC – there's no need to carry a heavy diagnostic tool. Set-up is easy too. If using the Hella Gutmann Tablet – or any other tablet with a camera – simply scan a QR code to initiate the process.

# License to Diagnose

**Our clearly structured license models give a quick overview of the individual performance scope of every license.**

### UPDATES INCLUDED

Our new license model does not need any update licenses. Updates and software amendments are easily managed by the basis software. Troubles with update fees for omitted updates are definitely a thing of the past. Instead of that we offer maximum cost transparency – and a software package that is always up to date.

| SOFTWARE MODULES | |
|---|---|
| SDI module X[1] | SDI module X[2] |
| **LICENSES*** | |
| License X[1] | License X[2] |
| **FUNCTIONS** | |
| • Reading/deleting trouble codes (without global check)<br>• DoiP technology | • Reading/deleting trouble codes<br>• DoiP technology<br>• Service reset<br>• Basic setting<br>• Parameters<br>• Codings<br>• Actuator test<br>• Test function<br>• Proposed online solutions based on trouble codes<br>• Cyber Security Management<br>• Automated retrieval of kilometer/mileade reading |

*appropriate software module necessary

For motorcycle diagnostics we will offer two versions: The X-Bike version is intended for plain bike workshops. Workshops which want to offer bike diagnostics as well can book the Bike-X Add-on license additionally.



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# Powerful, flexible and built to last

**The hardware at the heart of this new diagnostic set-up is the mega macs X device.**

### A DIAGNOSTIC DEVICE COMPLETELY REINVENTED

Expertly designed, the mega macs X is both compact and robust, ensuring it can more than meet the demands of busy workshop environments. It contains a powerful processor – the "brain" of the solution – for faster diagnosis and repair. A built-in bracket at the rear of the device allows the mega macs X to be easily attached to a vehicle window when in use,  the OBD plug has an integrated flashlight that makes it quicker and easier to connect the device to the vehicle, and a green LED bar indicates diagnostic progress. With no in-built display or keypad, the mega macs X connects wirelessly to your preferred external display and input device, whether a tablet, notebook or PC running Windows, Mac OS, Linux or Android.

### YOUR CHOICE OF SOFTWARE

Our Smart Diagnostic Interface (SDI) software modules range from entry level to full service. Each software module enables basic functions on the mega macs X, such as reading and deleting trouble codes and service resets, with support for PassThru, CAN-FD and DoIP protocols. However, four different software modules unlock a range of additional features such as actuator tests, basic settings, codings and ADAS calibrations (included from licence $X^2$ onwards).

### THE SOFTWARE LICENCE

Each software module purchased includes the corresponding licence for 12 months, providing access to software updates and the Hella Gutmann technical support line. Should your work-shop's requirements change, simply upgrade your licence and your software will automatically update to the corresponding level and unlock additional functionality.






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# Variation for maximum independence

The hardware at the heart of this new diagnostic set-up is the mega macs X device.

Expertly designed, the mega macs X is both compact and robust, ensuring it can more than meet the demands of busy workshop environments. It contains a powerful processor – the "brain" of the solution – for faster diagnosis and repair. A built-in bracket at the rear of the device allows the mega macs X to be easily attached to a vehicle window when in use,  the OBD plug has an integrated flashlight that makes it quicker and easier to connect the device to the vehicle, and a green LED bar indicates diagnostic progress.

With no in-built display or keypad, the mega macs X connects wirelessly to your preferred external display and input device, whether a tablet, notebook or PC running Windows, Mac OS, Linux or Android.

| Hardware | | Software | | Licenses |
|---|---|---|---|---|
| ONE-TIME | + | ONE-TIME COSTS | + | RUNNING COSTS |
| **mega macs X** | | SDI X[1] for license **X[1]**<br>SDI X[2] for license **X[2]**<br>SDI module X-Bike for **license X-Bike** | | License **X[1]**<br>License **X[2]**<br>License **X-Bike**<br>**License X-Bike Add-on** |





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# All important Brands at Hand

**BIKE DIAGNOSTICS BY HELLA GUTMANN**

Experience and specialist know-how is a must for a successful business. However, if workshops want to continue generating revenues, they require above all support in dealing with increasingly complex vehicle electronics. A development which no longer stops at motorcycles.

Our Bike versions comprise the most important functions such as initializing sensors, resetting values or switching systems on or off. Here, the list of brands and models is being expanded continuously. You can download all the relevant data updates conveniently over the Internet.



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# mega macs diagnostic devices

**MEGA MACS X BIKE**

The mega macs X offers utmost flexibility and options with regard to hardware and software. The choice is yours. Whether you wish to combine your existing tablet or PC with the mega macs X or whether you prefer to opt for the robust Hella Gutmann-Tablet, the mega macs X works well with all of them. Should your requirements change, you just need to change your mega macs X setup. Thanks to the software modules X Bike, you can retrieve exactly the scope of services that you need and that suits ideally your workshop situation. For motorbike diagnosis, two options will be available: The X-Bike license is aimed at workshops specializing in motorbikes only. Workshops which want to extend their service portfolio can purchase the Bike-X Add-on license in addition to their existing license.

## ADVANTAGES AT A GLANCE

- Display and operating unit (tablet, PC, etc.) is installed in the mega macs X independently from the hardware and diagnostic software
- Supports DoiP and CAN FD
- Integrated LED lighting at the OBD plugr
- Inductive charging tray

## RANGE OF FUNCTIONS

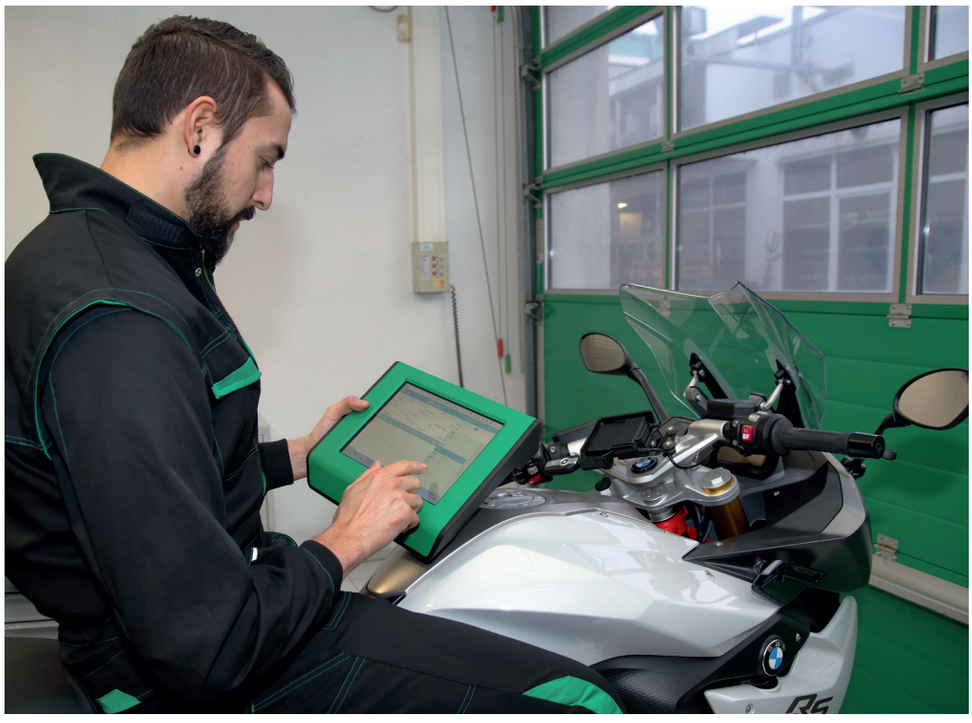
- Reading/deleting fault codes
- DoiP technology
- Service reset
- Basic settings
- Parameter
- Codings
- Actuator test
- Test functions
- And much more

## DELIVERY CONTENTS

- mega macs X
- Charging tray
- Power adapter
- Power cord
- USB cable
- Quick start guide

## MEASURING TECHNOLOGY

- Multimeter
  (additional Hardware required)





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# Vehicle Diagnostics

| MEGA MACS X | | |
|---|---|---|
| **ITEM NO.** | **ARTICLE** | **DESCRIPTION** |
| 8PD 015 265-841 | mega macs X | mega macs X, charging tray, power adapter, power cord, USB cable, Quick start guide |

| SOFTWARE MEGA MACS X (one time costs) | | |
|---|---|---|
| **ITEM NO.** | **ARTICLE** | **DESCRIPTION** |
| 8PY 015 267-591 | SDI module X[1] | Software module for licence X[1] |
| 8PY 015 267-601 | SDI module X[2] | Software module for licence X[2] |
| 8PY 015 267-851 | SDI module X-Bike | Software module for licence Bike |
| 8PY 015 745-271 | SDI module X-Body + Glass | Software module for licence X-Body + Glass |

| LIZENZEN MEGA MACS X (monthly from the 13th month on) | | |
|---|---|---|
| **ITEM NO.** | **ARTICLE** | **DESCRIPTION** |
| 8PY 015 267-791 | Licence X[1] | for mega macs X for SDI module X[1] |
| 8PY 015 267-801 | Licence X[2] | for mega macs X for SDI module X[2] |
| 8PY 015 267-861 | Licence X-Bike | for mega macs X for SDI module Bike |
| 8PY 015 267-841 | Licence X-Bike Add-on | Add-on licence for vehicle customers |

| BIKE ADAPTERS | | |
|---|---|---|
| **ITEM NO.** | **ARTICLE** | **DESCRIPTION** |
| 8PZ 010 613-331 | Adapter set Bike Basic | 8PZ 010 604-141 Kawasaki (BKA03), 8PY 010 613-101 KTM/ Husaberg**, 8PZ 010 613-201 BMW/ G+G Technik (BBM04), 8PZ 010 613-211 Harley Davidson (BHD02), 8PZ 010 613-231 Honda (BHO01)*, 8PZ 010 613-261 Ducati (BDU02)*, 8PZ 010 613-271 Derbi, Gilera, MV Agusta, Piaggio, Vespa (FIA01)*, 8PZ 010 613-311 Yamaha BYA03, 8PZ 010 616-321 Euro-norm 5 (BEN05) |
| 8PZ 010 613-321 | VCC Adapter* | additional power supply 12V. For vehicles without ignition lock, e.g. motor sports and also for all old momacs 50 adapters when used with a Bluetooth VCI or mega macs X. |
| 8PZ 010 613-171 | Aprilia* | BAP01 |
| 8PZ 010 616-301 | Aprilia | BAP02 ca. >BJ 2017 Comfort, Service reset |
| 342525 | Benelli | BBE01 |
| 8PZ 010 613-201 | BMW | BBM04 ca. >BJ 1999-2018 |
| 8PZ 010 613-241 | BMW* | BBM02 ca. <BJ 1999 |
| 8PZ 010 613-421 | Multi Italiano | BMI01<br>ca. >MY 2010 AJP<br>ca. >MY 2013 Benelli, Generic, Quadro, Stels<br>ca. >MY 2014 Keeway<br>ca. >MY 2016 Hisun Quad<br>ca. >MY 2017 Brixton, FB Mondial, KSR Motors, Wottan<br>ca. >MY 2019 MH<br>ca. >MY 2020 Fantic |
| 8PZ 010 613-271 | Derbi, Gilera, Moto Guzzi, MV Agusta, Piaggio, Vespa, Malaguti, Adiva, Bimota, Cagiva Gas Gas, KVN Motors, Laverda Moto Morini, Sherco, Voxan*, FB Mondial, Mash, Shineray | FIA01 |
| 342526 | CAN-AM | BRP01 |
| 8PZ 010 613-261 | Ducati* | BDU02 |
| 8PZ 010 616-321 | Euronorm 5 | BEN05<br>>MY 2018 Aprilia, Moto Guzzi, Vespa, Piaggio, Ducati, Honda, Kawasaki, Yamaha<br>>MY 2020 Suzuki, KTM<br>>MY 2021 MV Augusta, Harley-Davidson |
| 8PZ 010 613-031 | Harley-Davidson/Buell | BHD01 <BJ 2011 |
| 8PZ 010 613-211 | Harley-Davidson | BHD02 >BJ 2011 |
| 8PZ 010 613-231 | Honda* | BHO01 |



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| | | |
|---|---|---|
| 8PZ 010 613-251 | Honda* | BHO03 |
| 342527 | Husqvarna** | BHU01 |
| 342517 | Hyosung | BHY01 (New models only possible with adapter 342531) |
| 342531 | Hyosung | BHY02 |
| 8PZ 010 613-091 | Kawasaki | BKA01 ca. <BJ 2010 |
| 8PZ 010 613-081 | Kawasaki | BKA02 ca.< BJ 2010 |
| 8PZ 010 604-141 | Kawasaki | BKA03 ca. > BJ 2010 |
| 8PZ 010 613-101 | KTM / Husaberg** | BKT01 |
| 8PZ 010 613-111 | Kymco | BKY01 |
| 342426 | Linhai | BLI01 |
| 8PZ 010 613-291 | MV Augusta* | BMV01 |
| 8PZ 010 613-121 | Peugeot | BPE01 |
| 8PZ 010 616-311 | Piaggio | BVE01 |
| 8PZ 010 613-281 | Suzuki* | BSU01 digital |
| 8PZ 010 613-221 | Suzuki* | BSU02 analogue |
| 8PZ 010 613-431 | SWM | BSWM01 >BJ 2017 |
| 8PZ 010 613-191 | SYM | BSY01 |
| 8PZ 010 604-201 | Yamaha* | BYA02 |
| 8PZ 010 613-311 | Yamaha | BYA03 |

* For the external power supply, the crocodile clip red (300207) and crocodile clip black (300580) are required.
** For Husaberg, KTM and Husqvarna models without ignition lock, the new VCC adapter for additional 12 V power supply is required. (8PZ 010 613-321).

# At a Glance: The Technical Data

| MEGA MACS X | |
|---|---|
| Processor | ARM dual processor 1.2 GHz<br>RAM 2 GB DDR3 EMMC 32 GB |
| Interfaces | USB-C, DC-In, Ethernet |
| Supply voltage | 12 V to 24 V DC |
| Temperature of work area<br>Storage temperature | 0°C – 45°C<br>10°C to 50°C |
| Weight | 1420 g |
| Dimensions | 210 x 193 x 80 mm (H x W x D) |
| Demands on an external displaying device | • Screen diagonal 25.4 cm (10")<br>• Screen resolution at least 1024*768 Pixel<br>• Wi-Fi corresponds to IEEE 02.11 n<br>• Google Chrome browser at least version 81 |

| CHARGING TRAY FOR MEGA MACS X | |
|---|---|
| Non-contact charging procedure | Inductive energy transfer according to Hella Gutmann standard (no QI charging procedure) |
| Supply voltage | 15 VDC |
| Temperature of work area<br>Storage temperature | 0 °C to 45 °C<br>10°C to 50°C |
| Weight | 590 g |
| Dimensions | 164 x 164 x 37 mm (H x W x D) |



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