



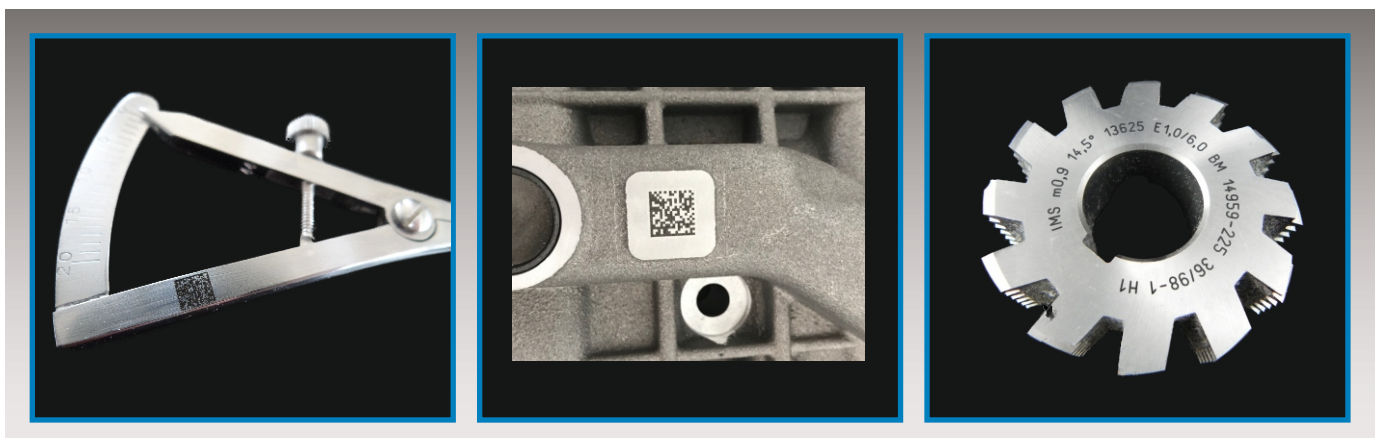
Laser marking a class better.

With its large dimension, the laser safety cabinet of the Mega-Light Plus Serie provides plenty of space for different marking applications. The cabinet of the Plus Serie can be combined with the laser sources V40, V80, F10, F20, M20, F50 and UV3.

The additional automatic x-axis of the Mega-Light Plus Serie increases the marking area to up to 530 x 180 mm.



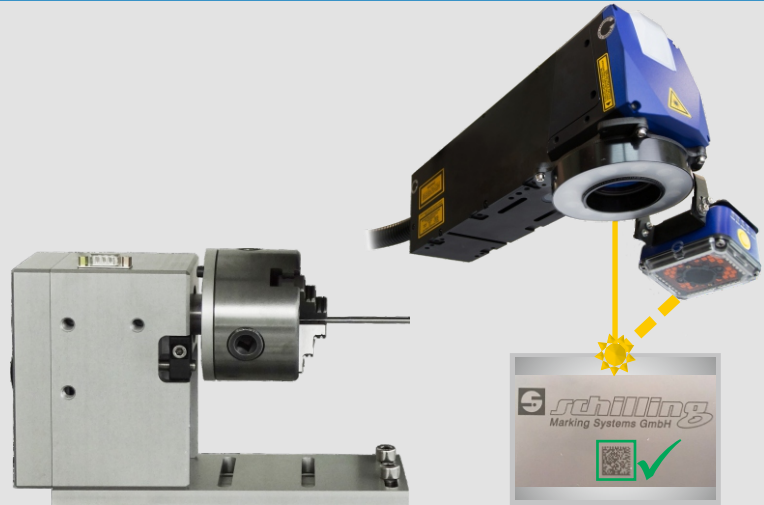
That way it is possible to mark a large number of small parts in one work process. Due to the larger protective cabinet of the Mega-Light Plus Serie it is furthermore possible laser individually large parts. The scope of delivery is consisting of a laser source, the large protective cabinet, an automatic z- and x-axis, a cradle, PC and software. Furthermore various accessories are available for the Plus Serie. With the optionally available rotary axis for example, circumference markings are also no problem.





HIGHLIGHTS

- * Marking area up to 530 x 180 mm
- * Large working space
- * Including roller table for laser cabinet
- * Economical price-performance ratio
- * Manual door with useful U-design
- * Automatic x- and z-axis
- * Large perforated plate
- * Reduced tooling time



APPLICATIONS

Advertising Industry

- * Easy and fast markings on advertising products
- * Individual markings of logos, graphs, text...

Electronic Industry

- * Markings with very sharp contrast
- * Codings and other markings on electronic components

Food Industry

- * Black laser markings for perfect quality and contrast
- * Sterile and corrosion-free markings, perfect also for products that are in contact with food or beverages

Packaging Industry

- * Marking and reading of codes for traceability
- * Direct Part Marking (DPM) for expiration dates and other production details



MEGA-LIGHT PLUS

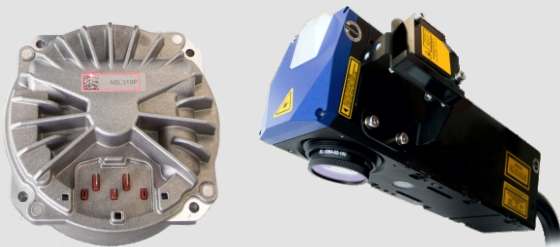


| LASER MODEL | Mega-Light V40+ | Mega-Light V80+ | Mega-Light UV3+ | Mega-Light F10+ | Mega-Light F20+ | Mega-Light F50+ | Mega-Light M20+ |
|--|--|-----------------|-----------------|--|-----------------|-----------------|-------------------------|
| Article Number | 111.0042P | 113.0082P | 120.0004P | 122.1F10P | 123.1F20P | 125.1F50P | 123.1M20P |
| Lasersource | Nd:YVO4 (Vanadat) | | UV-Laser | Fiber laser | | | Short pulse fiber laser |
| Wavelength | 1064 nm | | 355 nm | 1060-1080 nm | | | 1050-1080 nm |
| Nominal power | 10W | 20W | 3W | 10W | 20W | 50W | 20W |
| Repetition rate change | 10-100kHz | 20-100kHz | 20-80kHz | 20-200kHz | | | 20-500kHz |
| Pulse width | 100 ns | | | | | | Adjustable 4 - 250 ns |
| Warranty | 24 months on a new laser system | | | | | | |
| Aiming & focus beam | Semiconductor laser (red) to display the size and position of marking job, second red pointer for focusing | | | | | | |
| Marking capabilities | Static, On the Rotary, On the fly (in motion), Extended Layer on X-Y-Axes | | | | | | |
| Fiber length | 3 m | | | | | | |
| Interfaces | Ethernet, RS-232, USB | | | 6xUSB, 3x Ethernet, 1x RS-232, Digital I/O | | | |
| Power supply | 24-28VDC | | | 100-240VAC | | | |
| Power consumption | 450W | | | 250W | | | |
| Cooling system | Integrated air cooling | | | | | | |
| | Objective different focal lengths (mm) | | | | | | |
| Objective F-Theta | 160L | | | 254S | | | |
| Working distance | 175±4 | | | 290±2 | | | |
| Marking area | 470x120 | | | 490x140 | | | |
| Max. marking area | 530x180 | | | | | | |
| | Overall dimensions (mm) | | | | | | |
| Rack 19" with embedded PC | 430x370x111 | | | 427x435x111 | | | |
| Marking head | 110x122x158 | | | 59x311x96 | | | |
| Laser safety cabinet | 1520x1032x2043 | | | | | | |
| Max. part size | 540x805x375 (lengthways) / 720x495x375 (crossways) | | | | | | |
| | Gewicht ca. (kg) | | | | | | |
| Rack 19" | 12 | | | 16 | | | |
| Marking head | 3,8 | | | 2 | | | |
| Laser safety cabinet | 141 | | | | | | |
| | Protection class | | | | | | |
| Rack 19" | IP20 | | | IP 21 | | | |
| Marking head | IP 54 | | | IP 64 | | | |
| Laser safety cabinet | Laserschutzklasse 1 | | | | | | |
| | Environment | | | | | | |
| Operating temperature | Min. 15°C (59°F) / Max. 35°C (95°F) | | | Min. 5°C (41°F) / Max. 42°C (108°F) | | | |
| Humidity | < 70 % | | | < 90 % | | < 80 % | |
| Operating altitude | < 2000 m | | | | | | |
| Vibrations | Not permitted | | | | | | |
| Max. acceleration | 0,5 G | | | | | | |
| Noise | < 70 dB | | | | | | |
| Storage temperature | Min. -5°C (23°F) / Max. 55°C (131°F) | | | Min. -10°C (14°F) / Max. +60°C (140°F) | | | |
| Conformance to EU Machinery Directives | 2006/42/EG: Machinery Directive 2014/30/EU: Electromagnetic Radiation 2014/35/EU: Low Voltage Directive | | | | | | |
| Conformance to EU Standards | EN60825-1:2015-07: Safety of Laser Systems EN 6100-6-4:2011-09: Radiation Standard EN ISO 13849-1:2016-06: Safety of Machines EN ISO 12100:2011-03: Risk Assessment | | | | | | |
| NOTE: | Specifications are subject to change without notice | | | | | | |



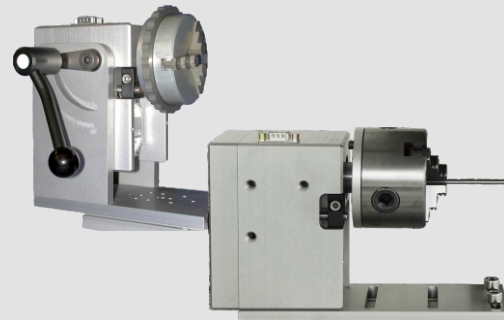
Focus Finder

- * Automatic focusing
- * Mounting directly on laser head



Rotary axes

- * Laser markings on 360°
- * Easy and fast retrofitting



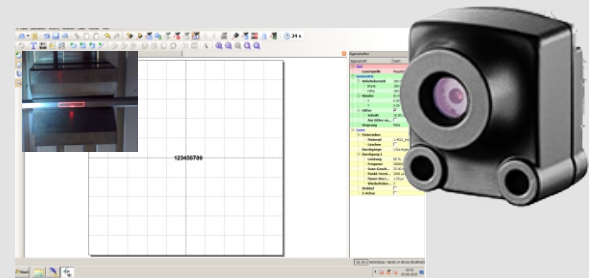
Hand scanners

- * Fast reading of codes
- * Wireless hand scanners available
- * Integrated illumination



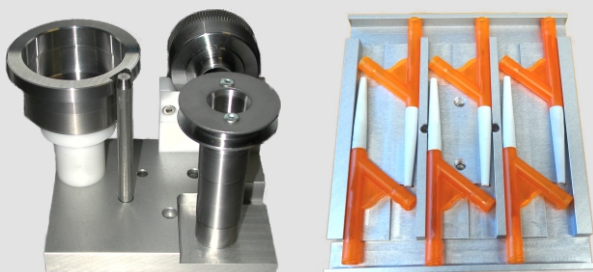
Camera

- * Live position displaying
- * Perfect for positioning on high parts



Fixtures

- * Increase in process reliability
- * Optionally available with RFID technology



Code inspection system VISION

- * Mark, Read and recording of marked codes
- * With grading function

