

LASER MARKING SYSTEM



product video



Group 1914

Fibre laser marking systems are cheaper and easier to use than traditional lasers. A particularly high quality result in terms of durability of the laser source (approx. 50,000 hours), the excellent efficiency factor, the good processing of the components and the resulting clean marks. A fibre laser is almost maintenance-free, compact and not affected by external factors.

Röltgen's closed systems are able to mark almost all metals and plastics at very high speeds.

Subject to change. 05-14



laser marking system closed and open

LASER MARKING SYSTEM

The included Windows based MarkMaster software can be used to create and save label layouts. You can reposition and rearrange the individual lines using the mouse. Where the mark is located on the component, a safe, red guiding laser is used to provide a preview of the label.

Any Windows font in any font size may be used for marking. You can also create and mark company logos, images, bar codes or data matrix codes.

Of course, we also offer the relevant reading devices for the codes.

Fibre-optic laser marking systems are available in various sizes depending on the marking requirement.

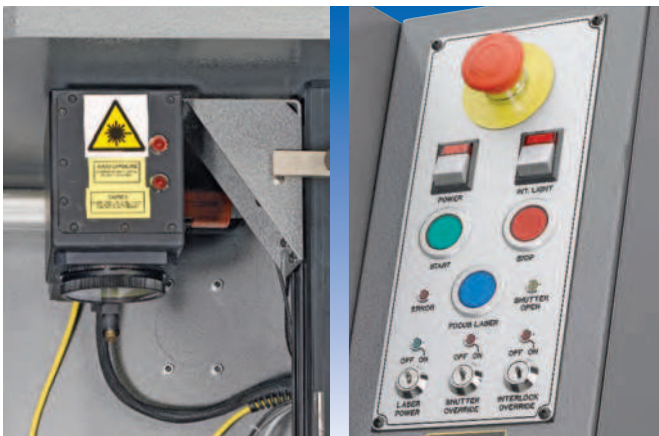
10 watt, 20 watt and 50 watt systems are available. The marking area may be 60 x 60 mm, 100 x 100 mm or 150 x 150 mm in size.

Marking systems are typically supplied in an enclosed cabin which can be mounted on a work bench or table. A 110 – 230 V power supply is sufficient.

This robust steel cabin is laser class 1 compliant and therefore guarantees operating personnel's safety. The system has a large door on bearings, making it easy to open. In order to monitor the marking process occurring in the cabin, a large viewing panel is built into the door. Another key safety aspect is the 3x key-locked system, a feature which prevents misuse.

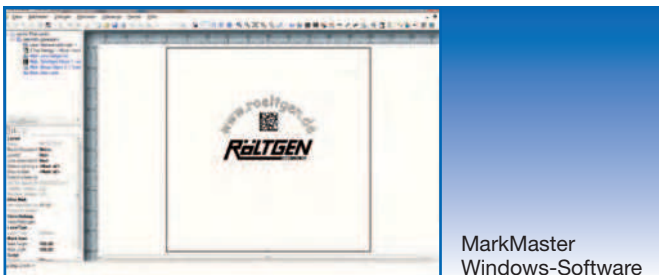
On request, Röltgen can also integrate laser marking heads into production systems or develop special housings to meet our customers' requirements. These heads are then equipped with a 19 inch wide controller and are able to mark completely autonomously.

Furthermore, there is a transportable laser marking device. However for safety reasons, it can only be operated as a class 4 laser if it is provided with suitable protective equipment. With a radius of 3 m, it is also possible to mark very large components.



laser head

machine panel



MarkMaster Windows-Software

Technical data:

Type	19140102	19140202	19140252	19140502
power	10 watt	20 watt	20 watt pro	50 watt
marking area	100 x 100 mm or 150 x 150 mm			
pulse length at 20 kHz	100 ns	100 ns	4, 8, 14, 20, 30, 50, 100 and 200 ns	120 ns
temperature range	0° – 42° C			
cooling	active air cooling			
operational lifespan	approx. 50,000 hours			
power consumption	less than 200 watts			
power supply	110 or 230 V			

Optional accessories available:

- dividing head for marking circumferences
- automatic, digital z-axis
- suction
- digital I/O interface
- automatic door opening
- data matrix reading devices and software
- turntable
- sign magazine

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