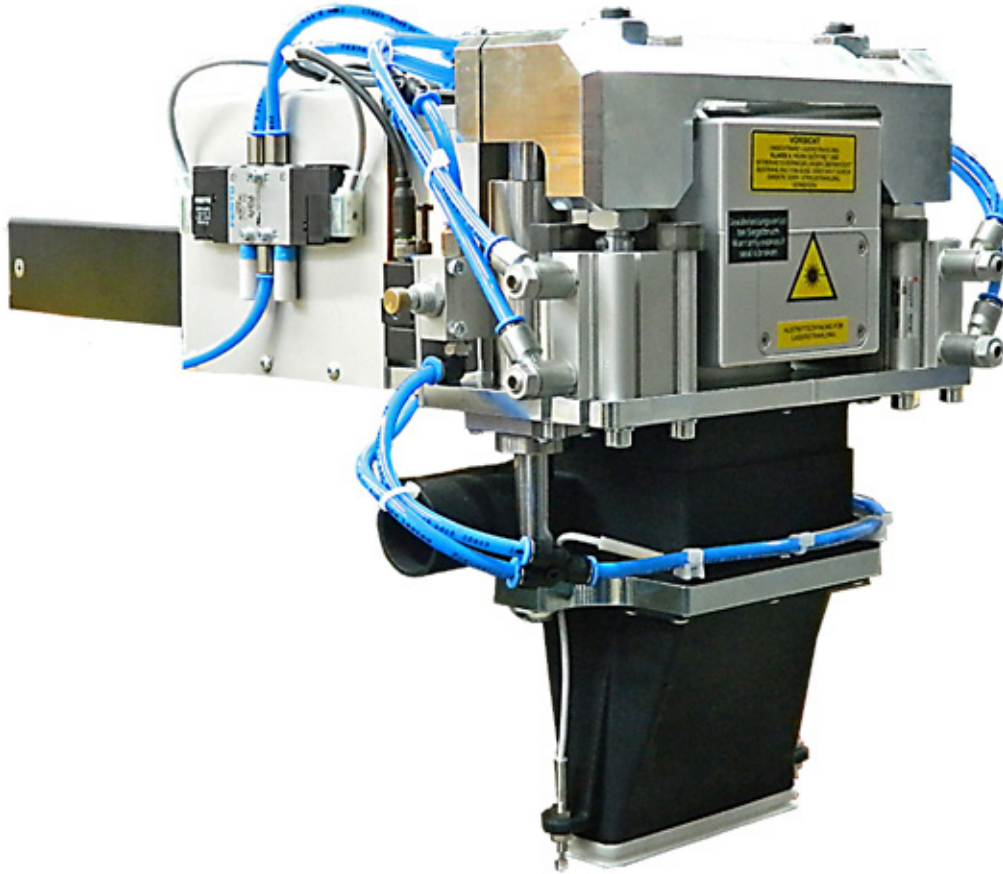


Industrial laser marking of large components
in automatic processes

→ Laser marking with selective shielding



Efficient and cost-effective marking solutions
Space-saving design in different versions
Laser marking without additional protective measures

→ Safe laser marking of large and bulky parts

Laser marking in automatic processes

In automated processes, selective shielding offers considerable advantages over complex protective enclosures. Thus, the laser marking of workpieces is significantly easier.

The area between the beam exit and the marking area is shielded with a protective bell (lens tube). Safety-related monitoring guarantees the laser is protected. The space-saving design also reduces costs.

Various design options

In laser marking with selective shielding there are two versions. In the first version, a workpiece is guided against a fixed protective bell. In the second variant, the protective bell is moved to the workpiece.

Even manually operated protective bells for manual workstations can be provided. Interchangeable moldings also allow the use of different workpieces and components.



Workpiece marking with lens tube



Tube shielding with active actuation



Manual workstation with selective laser shielding

The advantages of selective shielding

- Faster and simpler workflow with increased productivity
- Minimal effort is required for laser protection resulting in lower material requirements
- Compact installations for the marking of large parts
- Small space requirements
- Workpieces, particularly large pieces, do not need to be introduced into protective housings and moved up to the laser
- Simple control
- Flexible design for field sizes and surface shapes
- Adaptability thanks to interchangeable attachments
- Low investment and operating costs