

Special machines equipped with laser marking

Laser marking has made its way in all industrial branches as a reliable process to mark components.

Supported by flexible software solutions you can satisfy nearly every task for application. Examples are bar codes, data matrix codes, serial numbers of any coding to be marked on very different material such as metal, plastics, paper, glass, ceramics.



Benefits of Laser marking

- Durability of marking
- Forgery-proof and the proof of the manufacturing conditions of the component until its service life end
- Flexibility of the marking contents
- No resetting when changing the workpiece lot
- Easy control the process

To an increasing degree, customers inquire about **turn-key projects**.

For the complete integration in the manufacturing process and flexible manufacturing lines, turn-key system solutions are being offered consisting of an all-embracing hardware, control technique as well as an innovative service. In a close co-operation with technology partners, in addition to the laser technologies, supplementary technologies such as image recognition of the code marked by laser and the plain text, workpiece handling, and test operations are used.



Whether special machines or manufacturing lines – the Dr. Teschauer AG as a partner of competence in laser marking delivers a one-stop performance for the whole complex: machines, accessories, training, service, and maintenance.



Manufacturing line for laser marking and testing of camshafts

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Special machine for laser marking – station of a flexible manufacturing line for crankshafts



Laser systems for special machines

In order to design optimum laser technologies with warranting short cycle times diode-pumped Nd:YAG lasers of powers from 8 to 80 Watts and CO₂ lasers of laser powers of 10 to 100 Watts are available.

Laser	Serie	Process	Materials
Nd:YAG diode-pumped	TL 1118, TL 1145	laser structuring laser precision cutting laser drilling	metal, ceramics, silicon
Nd:YAG diode-pumped	TL 1208, TL 1216, TL 1250, TL 1280	laser marking micromarking laser trimming laser cleaning	metal, plastics, silicon
CO ₂ sealed off	TL 1310, TL 1320, TL 1340	laser marking laser cutting	plastics, glass, wood, leather