TESCHAUER
LASER

OEM Laser module

For integration as well as construction of customised systems

- compact design
- excellent beam quality
- long lifecycle
- low operating costs

Dr. Teschauer AG
Max-Planck-Straße 22 b
D-09114 Chemnitz

Tel.: +49 (0)371 338 93- 0
Fax: +49 (0)371 338 93- 40
info@teschauer-laser.de
www.teschauer-laser.de

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Depending on individual requirements, high-performance Nd:YAG – disk lasers (5 W to 16 W), as well as fibre lasers (10 W to 50 W) are available as OEM modules. Reliable air cooling, low operating- and follow-up costs, and the excellent beam quality are significant advantages of these laser sources. Moreover, the OEM modules can be equipped with CO_2 lasers (10 W to 100 W).

Standard equipment

- Quality-switched Nd:YAG-disk laser, fibre laser or CO_2 laser
- Laser-scanner unit with deflexion unit, beam expander, scanner
- Scanner driver with interface card (PCI card) and low-voltage power packs
- Planar field optic (f=160mm)
- Laser power supply
- Control cabinet IP 54, can also be supplied air-conditioned
- Control software "LasPaint®"
- Industrial PC with card for laser control (PCI card)

Options

- Motorised axes
- Exhaust
- CPC- / process data highway interface
- Special software
- Sensorics
- Camera systems

	TL 2010	TL 2012	TL 2020	TL 2030	TL 1150
Laser	fiber laser	fiber laser	fiber laser	fiber laser	fiber laser
Output power	10 W	12 W	20 W	30 W	50 W
M²-standard value	< 2	< 2	< 2	3,2	1,5
Wave length	1064 nm	1064 nm	1064 nm	1064 nm	1062 nm
Temperature range	0 °C - 35 °C	0 °C - 35 °C	0 °C - 35 °C	0 °C - 35 °C	0 °C - 40 °C
Laser cooling system	air condition	air condition	air condition	air condition	air condition
Q-switched operation					
Pulse energy	> 0,5 mJ	> 0,6 mJ	0,8 mJ	1,0 mJ	1,0 mJ
Peak power	7,5 kW	10 kW	12 kW	15 kW	100 kW
Electrical specifications					
Electrical connection	24 V / 7 A	24 V / 7 A	24 V / 10 A	24 V / 10 A	24 V / 10 A
Size of modul	352 x 199 x 77 mm				233 x 292 x 59 mm
Laser software					
Data interfaces	serial interfaces, digital in-/outputs, Ethernet TCP/IP, Profibus DP Master, OPC Client				
Graphic interfaces	Vector- and Pixel files, Windows True-Type scripts, Barcode, Data Matrix Code				