

Here comes precision and efficiency in a modern design

Highlights

- High pulse peak power
- Joystick control of all functions
- Motorised travel in x/y/z axes
- Direct laser beam source
- Ultimate flexibility



*Dimensions: Width 450 x Height 1000 x Length 950 mm
Weight: 70 kg net*

Technical data

POWER

	TYP: PL 40	TYP: PL 55	TYP: PL 55 B	TYP: PL 100
Lasertype	Nd: YAG	Nd: YAG	Nd: YAG	Nd: YAG
Max. mean power	40 W	55 W	55 W	100 W
Pulse peak power	7 kW	9 kW	11 kW	11 kW
Max. pulse energy	60 J	80 J	100 J	100 J
Pulse duration	0,4 – 30 ms	0,4 – 30 ms	0,4 – 30 ms	0,4 – 30 ms
Pulse frequency	0,5 – 20 Hz	0,5 – 20 Hz	0,5 – 20 Hz	0,5 – 50 Hz
Focus diameter	0,2 – 2,0 mm	0,2 – 2,0 mm	0,2 – 2,0 mm	0,2 – 2,0 mm
Line voltage (V/Hz)	230/1/50	230/1/50	230/1/50	230/1/50

SYSTEM EQUIPMENT

Laser system

- Laser resonator inclusive resonator mechanic
- Pump chamber
- Laser rod
- Cavity
- Resonator mirror
- Safety shutter
- Beam extension
- Power supply including circuit breaker
- Power disconnecting switch
- Emergency stop switch
- Motor protection switch
- Extra low voltage power supply 24 VDC
- Interface with hardware monitoring function
- Lamp switch
- Industry controller for setting and display of power, pulse duration, pulse frequency with external trigger via foot switch
- Capacitor bank
- Internal water-air cooling system

Processing optics

- Variable beam expansion
- Beam deflection
- Safety glass
- LCD anti-glare
- Binoculars 10x
- Focussing lens

Mechanics

- Motorized z axis (85 mm rise) optional
- Motorized x/y table (100 mm travel) optional
- 10 kg maximum load
- Joystick control of all functions

Dimensions and weight

Dimensions: Width 450 mm / Height 1000 mm / Length 950 mm

Weight: 70 kg net