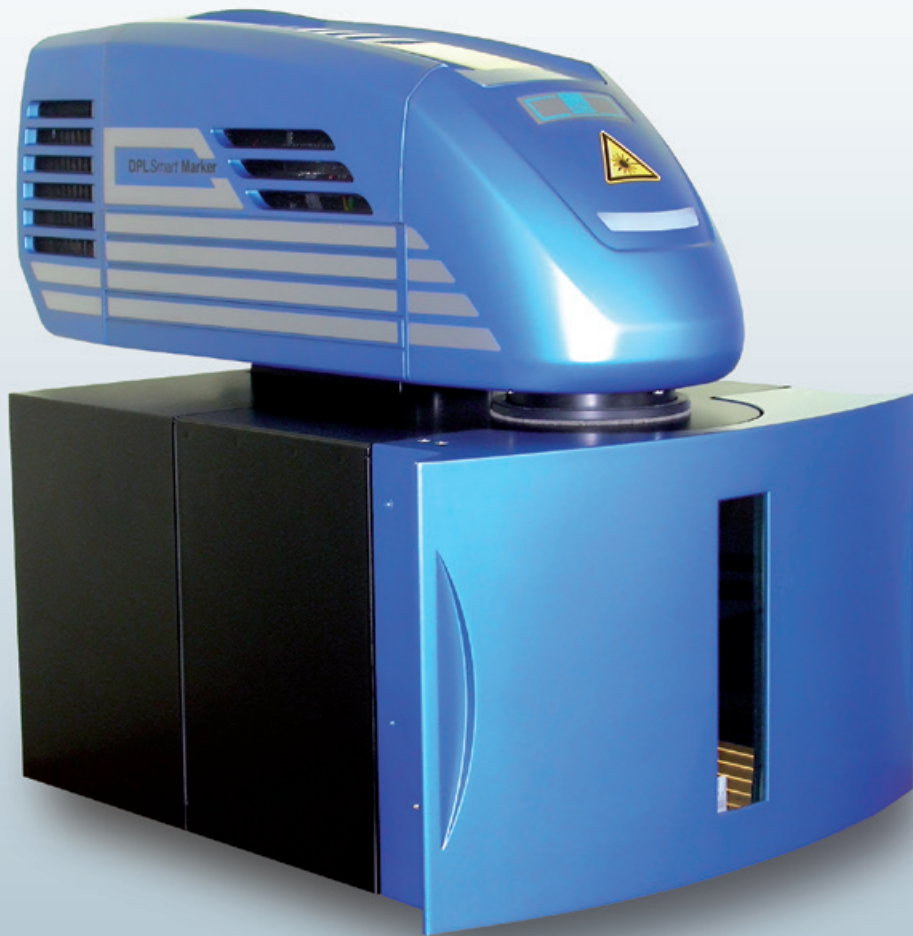


# Nd:YAG Laser for Marking and protection housing



**DPL Smart Marker**  
with **WorkstationBASIC**

**28.700,- EUR** excl. VAT  
software included



**DPL Smart Marker**

**22.700,- EUR** excl. VAT  
software included

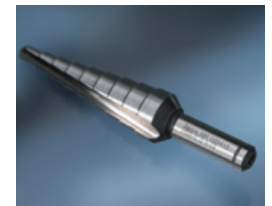
# Technical Data DPLSmart Marker and WorkstationBASIC

## Technical Data DPLSmartMarker

Laser unit	Diode-pumped, active quality-switched solid-state laser (Nd:YAG) Integrated pilot laser: 650 nm / 1 mW			System requirements	IBM-compatible PC, Pentium 4, > 2 GHz, Main memory: 512 MB Operating system: WINDOWS 2000 / XP Drives: hard disk drive, CD - Rom	
Wave length	1064 nm			Interfaces laser system	PC-interface: USB 2.0	
Materials	Marking on metal, carbide, previous metal, aluminium, synthetic material, foil, ceramic, etc.				Laser control interface for: · Ready for operation or fault signals · External Shutter-Interlock · External Shutter warning light · 4 digital inputs · 4 digital outputs	
Applications	Marking on tools, medical instruments, electronic parts, type plates, serial numbers, logo, graphic, text, etc.				Power supply: · Standard appliance outlet with microfuse	
Pulse length	15 - 30 nsec (frequency dependent)				Power supply and Consumption	Connection parameter: 100 - 240 VAC / 16 A / 50 - 60 Hz
Peak pulse power	50 kW@4000 Hz					Power consumption (typ.): DPLSmart Marker 100 W
Beam quality	TEM <sub>00</sub> , M <sup>2</sup> < 1,2				Cooling: Only air-cooled, no water supply required	
Puls frequency	1-100 kHz				Operation temperature	15 °C - 35 °C [59 °F - 95 °F]
Laser protective class	4, optional laser protective class 1				Humidity (relative)	30 % - 85 %, non-condensing
Control unit	· Integrated control unit in the laser source · Power supply module · Multi-processor system for system control and data processing · Integrated laser diode driver and TE-controller · Integrated scanner control · Integrated HF-driver · Connection of all components via a bus system				Weight	15 kg
Scan unit	Galvanometric scanner Scanning speed <5 m/sec Focal lens: optional				Dimensions	Laser source incl. scanner (L x B x H): 603 mm x 201 mm x 235 mm
Spot diameter <sup>(1)</sup>	F-Theta 100 25	F-Theta 163 35	F-Theta 254 50 [µm]	Options	Hardware: · Div. laser protective encasement, rotary indexing table, x-y-z axes, foillabelsystem, exhaust, laser protective accessories, Further options and special solutions on request.  Software: · Barcode Module · Data Matrix Code Module	
Size of marking field	60 x 60	110 x 110	180 x 180 [mm x mm]			
Supply unit	Laser source with integrated control unit, An external supply unit is not required					
Cooling	Laser source with integrated thermoelectric air cooling, External cooling supply is not required					

## Technical Data WorkstationBASIC

Laser Protective Housing Class 1 with Integrated Height Adjustment	Marking field 110 mm x 110 mm  Clamping area: Base plate with T-grooves, 320 mm x 290 mm  Maximum height of parts: 120 mm  Safety door: Manually operated, Safety switch integrated  Laser protective glass: 50 mm x 200 mm integrated  Lighting: Integrated lighting of workroom  Exhaust discharge: Ø = 30 mm with conical flange for connecting an external air suction
Height Adjustment with Focus-Finder-Function	Motor-driven z-axis: Linear axis driven by stepper motor, Recirculating ball screw and recirculating ball slides  Travel: 70 mm  Operation: Optional by hand control unit (up/down – pushbutton), or via RS232
Power Supply and Consumption	85 - 260 VAC / 16A / 50-60 Hz  Power consumption (typical): 50 W
Weight without laser	32 kg
Dimensions (L x B x H)	680 mm x 440 mm x 390 mm
Options	Rotary axis, Exhaust, Holding fixtures available on request



(1) Spot diameter at the work piece. Deviations because different materials are possible.