

Nd:YAG Laser for Marking



DPL *Smart Marker*

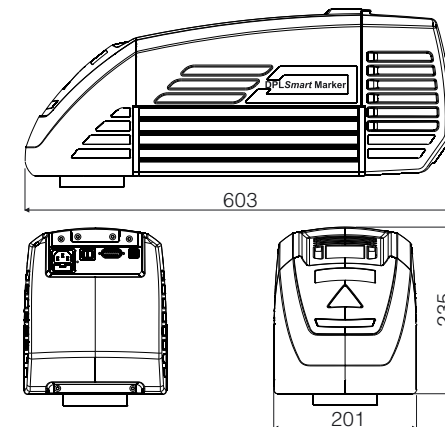
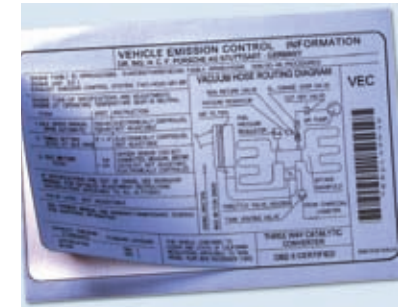
22.700,- EUR excl. VAT
software inclusive

The new diode pumped solid state Laser
DPL*Smart* Marker is a perfect tool to step into
cost effective laser marking of different materials.

- low running costs
- compact
- air cooled

Technical Data DPLSmart Marker

Laser unit	Diode-pumped, active quality-switched solid-state laser (Nd:YAG) Integrated pilot laser: 650 nm/1 mW			Interfaces laser system	PC-interface: · USB 2.0 Laser control interface for: · Ready for operation or fault signals · External Shutter-Interlock · External Shutter warning light · 4 digital input interfaces · 4 digital output interfaces Power supply: · Standard appliance outlet with microfuse
Wave length	1064 nm			Power supply and consumption	Connection parameter: 100 - 240 VAC / 16 A / 50 - 60 Hz Power consumption (typ.): DPLSmartMarker 100 W Cooling: Only air-cooled, no water supply required
Materials	Marking on metal, carbide, precious metal, aluminium, synthetic material, foil, ceramic, etc.				
Applications	Marking on tools, medical instruments, electronic parts, type plates, serial number, Logo, graphic, text, etc.			Operation temperature	15 °C - 35 °C [59 °F - 95 °F]
Pulse length	15 - 30 nsec (frequency dependent)			Humidity (relative)	30 % - 85 %, non-condensing
Peak pulse power	50 kW@4000 Hz			Weight	15 kg
Beam quality	TEM ₀₀ , M ² < 1,2			Dimensions	Laser source incl. scanner (L x W x H): 603 mm x 201 mm x 235 mm
Puls frequency	1 - 100 kHz			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
Laser protective class	4, optional laser protective class 1				
Control unit	<ul style="list-style-type: none"> · 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 			Scan unit	Galvanometric scanner Scanning speed < 5 m/sec Focal lens: optional
Spot diameter ⁽¹⁾	F-Theta 100 25	F-Theta 163 35	F-Theta 254 50 [µm]		
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				
System requirements	IBM-compatible PC, Pentium 4, > 2 GHz, Main memory: 512 MB Operating system: WINDOWS 2000/XP Drives: hard disk drive, CD-Rom PC-interfaces: USB 2.0				



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

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