Clean, clear marking from a 50-watt Nd:YAG laser

- High speed marking up to 1,300 characters/second and up to 3,000 feet/minute
- Superior laser beam quality allows for high quality marking on a wide range of applications
- Enhanced flexibility and modularity provide easy integration into the production line

The ALLPRINT DN50A meets the most stringent requirements whether throughput, flexibility, user-friendliness, reliability or economy is the prime criterion for your marking application. No matter what has to be marked: electronic housings, keyboards, day/night design, identification plates, tools, surgical instruments, fuel-injection nozzles, ball bearings, crankshafts/camshafts, fittings, stamps or injection molds, etc., the ALLPRINT DN50A delivers clean, clear and permanent marks.

The solid-state system is designed for both stand-alone systems and easy integration into lines. It is capable of being completely controlled by a computer and is ideal for use in fully automated production. The flexible user interface enables user-friendly and efficient management of marking jobs with text, machine-readable codes, graphics or individual data.

Whether as an engraving, color change, material removal or temper/black marking – ALLPRINT DN50A delivers high resolution and brilliant marking quality.
ALLPRINT DN50A

Nd:YAG Laser Marking System

Specifications

LASER
Source
• Diode-pumped Nd:YAG laser, power class 50 W, cw or pulsed (3,000-65,000 Hz), 1.064 μm

Beam deflection
• Digital high-speed galvanometer scanner

Focusing
• Precision optics: available focal lengths f=100/163/254/420 mm

OPERATIONS
• Several options: PC, handheld control unit or software interface
• Real time operation concept
• Storage: RAM 28MB, Multi Media Card minimum 512MB

HANDHELD (optional)
• Graphic remote control via Ethernet for flexible operation
• Preparation of marking jobs, marking data entry
• System configuration
• Status and alarm display
• Excellent legibility of graphic display; fast, intuitive operation

SOFTWARE
Smart Graph (optional)
• Graphical user interface under Windows® XP/Vista for intuitive and quick generation of complete marking jobs on PCs
• System configuration
• Text/data/graphics/parameter editor
• Configurable in German, English, other languages optional
• Easy access to standard CAD and graphics programs by convenient import functions
• WYSIWYG
• Various password-protected security levels

Smart Graph Com
• ActiveX software interface for integration into operation software

Communication
• Ethernet (TCP/IP, 100 Mbit LAN), RS232
• Inputs for encoders, bar code readers and product detectors
• 8 bit digital input for digital job selection, start/stop signals, machine/operator interlocks, alarm outputs
• Customer-specific solutions

INTEGRATION
• Direct integration into complex production lines via the laser’s scripting interface
• Integration via Ethernet and RS232 interface
• Easy integration via flexible umbilical, optional 6/10/15 m (19.7/32.8/49.2 feet)

UTILITIES
Electricity/Cooling
• 100/230V (autorange), 1 PH, 48-62 Hz, 2 kVA (Incl. cooling)
• Internal water/air heat exchanger

Environment
• Temperature range 40-105° F (5-40° C)
• Humidity 10%-90%, non-condensing

Sealing and Safety Standards
• Supply Unit: IP22; Marking Head: IP44; Laser Head: IP42; LASER CLASS 4
• Laser CLASS 4 according to DIN EN 60825-1;10/2003

Weight
• Supply unit: 288 lbs (131 kg)
• Marking unit: 40 lbs (20 kg)

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