Allprint

DN A-series

diode-pumped Nd:YAG laser markers

THE NEW GENERATION

ALLTEC's new generation of diode-pumped Nd:YAG laser marking systems convinces by an unprecedented combination of throughput, flexibility, user-friendliness, reliability, and economy.

Throughput and flexibility

- extreme marking speeds:
  up to 30,000 mm/s resp. 1,300 characters/s
- marking also of very fast moving products:
  up to 15 m/s
- high laser power and excellent laser beam quality:
  – extreme intensities at the product and consequently broad application spectrum
  – laser power reserves also for future applications
- laser beam properties adjustable to the application:
  – from fundamental mode for highest resolution to
  – HQ multimode for metal engraving

User-friendliness

- fully programmable: marking information plus process parameters
- *Smart* Graph Windows-based user interface: intuitive and functional generation of marking jobs
- no font, code or graphics restrictions
- import filters for all common data formats
- Touch Screen: operation in the line at the touch of a button
- user hierarchy: user-dependent interface, password protected to prevent unauthorized access resp. operation

Reliability

- strictly modular setup optimized for longevity, hassle-free operation, and economy
- laser unit stabilized against mechanical stress such as vibrations
- sealing of housings: safe longterm operation also in critical environments
- cutting-edge controller technology: real-time operating system, digital signal processors for fast and safe data processing and exchange, internal CAN bus, Ethernet communication between PC and marking system
- interface concept prepared also for communication in future production lines

Economy

- minimized energy consumption, reduced operating costs
- virtually maintenance-free over thousands of hours
- high lifetime of laser diodes
  – simple and quick pump chamber exchange directly in the line
- worldwide service network with fair ALLTEC service rates and spare part prices.

ALLTEC
A VIDEOJET company

Technical Data Technical Data

Marking Features

Marking speed	• Programmable, 0 - 30,000 mm/s • Up to 1300 characters/s)[a]
Line speed	• 0 - 15 m/s)[a]
Marking field	• Dependent on focusing optics: 25 x 25/ 70 x 70/ 115 x 115/ 170 x 170/ 240 x 240/ 560 x 560 mm², options
Marking formats	• Standard industrial fonts (Type 1 Windows® and True Type fonts) • Individual and dot-matrix fonts • Machine readable codes (OCR, 2D-matrix, bar codes, etc.) • Graphics, logos, symbols, etc. • Linear, circular, angular reverse marking • Rotation, mirroring, expansion, compression of texts, logos etc. • Sequential and batch numbering • Automatic date, time, shift coding, real-time clock function • On-line marking of individual data, esp. fast multi-bin capability

Software

Smart Graph	• Graphical user interface under Windows® 2000/ XP • Full feature text/ data/ graphics/ parameter editor for generation of texts, codes, individual fonts, logos, symbols, graphics • Easy access to standard CAD and graphics programs by convenient import functions (dwg/dxf/ai/jpg/tif/pcx/bmp etc.) • On-the-fly marking • WYSIWYG
Command languages	• Selectable, installed: English, German • Further languages optional
User hierarchy	• User-dependent interface, password protection to prevent unauthorized access/ operation
Storage	• RAM up to 256 MB • Multi Media Card up to 256 MB

Laser & Marking Head

Laser type	• Diode-pumped Nd:YAG laser • Laser wavelength 1,064 nm • Power class 50 W • Pulse frequency programmable: cw, 100 – 65,000 Hz
Beam deflection	• Digital high-speed galvanometer scanners
Focusing	• Precision laser scan lens: focal length 56/ 100/ 163/ 254/ 420/ 810 mm and options

Controller

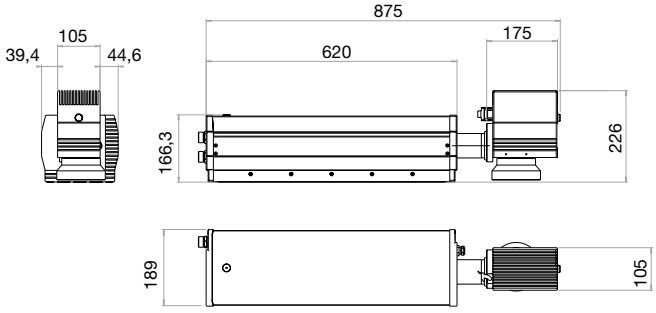
Concept	• Real-time operating system • Digital signal processors • Internal CAN bus • Ethernet communication between PC and marking system
Communication	• RS232 interfaces • Ethernet for PC networks • Optional CAN, Profibus • Bar code reader input • Shaft encoder input • More than 100 Input/Output ports for digital direct-selection of jobs, product detectors, machine/ user interlocks, alarm signals, Start/ Stop signal, etc. • Customer specific solutions

Utilities

Consumables	• Non
Power Control Module PCM	• Controller, supply, cooling unit • Dimensions ca. W525 x D631 x H732 mm³ (without wheels)
Cooling	• Internal water/ air heat exchanger
Electrical	• 110 V/ 230 V, 48 - 62 Hz, 1 PH, 2 kW incl. cooling
Environment	• Temperature 5 - 40 °C (40 - 105 °F) • Humidity 10 - 90 %, non condensing
Sealing	• Better IP54

)[a] max. speeds depend on application

Due to our policy of continuous improvement, specifications are subject to change without notice.



Marking unit, measures in mm

• www.videojet.co.uk • uksales@videojet.com
Videojet Technologies Limited • 4 & 5 Ermine Centre • Lancaster Way
Huntingdon • Cambridgeshire • PE29 6XX • United Kingdom
Phone: 0870 240 5542 • Fax: 0870 242 2835

DN_E 056/04 : 5/04