Allprint

LN A-series

lamp-pumped, high-power Nd:YAG laser markers

THE NEW GENERATION

ALLTEC's new generation of lamp-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
- minimum maintenance
- high lifetime of laser lamps
  – simple and quick lamp exchange by the operator
- worldwide service network with fair ALLTEC service rates and spare part prices.

ALLTEC
A VIDEOJET company

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	● Lamp-pumped Nd:YAG laser ● Laser wavelength 1,064 nm ● Power class 100 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

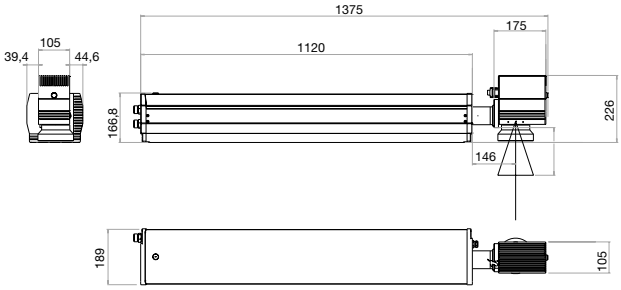
Concept	● Real-time operating system ● Digital signal processors ● Internal CAN bus ● Ethernet communication between PC and marking system
Communication	● RS232 interfaces ● Ethernet for PC networks ● Optional CAN, Profibus ● Bar code reader input ● Shaft encoder input ● More than 100 Input/ Output ports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

Utilities

Power Control Module PCM	● Controller, supply, cooling unit ● Dimensions ca. W525 x D631 x H732 mm³ (without wheels)
Cooling	● Internal water/ water heat exchanger, optional external water/ air heat exchanger
Electrical	● 230 V/ 400 V (±10 %), 50/ 60 Hz, 3 P/N/PE, < 7.0 kW incl. cooling
Environment	● Temperature 5 - 40 °C (40 - 105 °F) ● Humidity 10 – 90 %, not 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

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