



make your mark

# ALLPRINT LN100A Nd:YAG Laser Marker

## High performance for the best results: The ALLPRINT LN100A Nd:YAG laser marker



- **High-speed marking:** up to 30,000 mm/s and 15m/s for on-the-fly applications, thanks to highest laser power and fast digital galvanometer technology.
- **Broadest application spectrum** thanks to powerful application software supports, excellent laser beam quality and high laser intensities due to adjustable mode aperture.
- **Highly flexible integration** thanks to compact modules and a broad spectrum of beam-turning units. The unique controller and interfacing concept assure an unmatched integration flexibility.

ALLPRINT LN100A **meets the most stringent requirements** regardless of whether throughput, flexibility, user-friendliness, reliability or economy is decisive for your application. No matter what has to be marked: **all sorts of plastics or diverse metal parts**. Wherever highest power is required at an economic price, LN100A is the most suitable system.

The solid-state system is designed for both **stand-alone systems** and **easy integration into lines**. It is capable of being completely controlled by computer and is predestined for use in fully automated production. The unique communications concept enables user-friendly and efficient administration of marking jobs with texts, machine-readable codes, graphics or individual data.

Whether as an **engraving**, **color change**, **color removal** or **black marking** – LN100A performs convincingly not least on account of its high resolution and brilliant marking quality.

Packaging, CPG, food and beverage industries:  
**can tabs**  
coated aluminium



Electronics/ electrics:  
**electric and electronic housings**  
PVC



Animal breeding:  
**animal ear tags**  
rubber compounds



Tool & metal manufacturing:  
**measuring instruments**  
plain metal part



Brand protection and building services:  
**sprinkler head**  
plain metal part

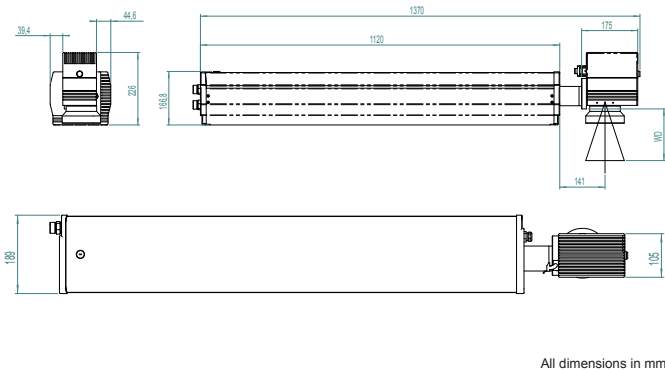


# ALLPRINT LN100A

## Nd:YAG Laser Marker

### Dimensions

#### Marking Unit with Marking Head



All dimensions in mm

### MARKING FEATURES

#### Marking Speed

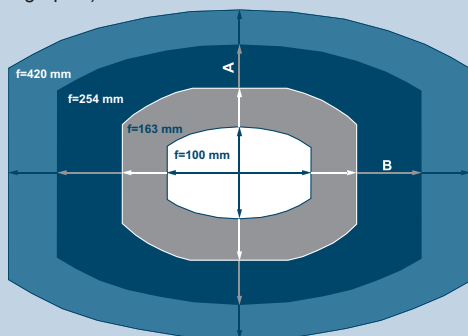
- Up to 1,300 characters (30,000 mm/s) per second\*

#### Line Speed

- Up to 15 meters per second\*

#### Marking Field (see graphic)

- Lens options



	f = 100 mm	f = 163 mm	f = 254 mm	f = 420 mm
max. A/mm	75.8	142.2	215.5	361.5
max. B/mm	118.7	193.5	301.5	498.5

#### Marking Formats

- Standard fonts (Windows® TrueType®/ TTF; PostScript®/ PFA, PFB; Open Type®/ OTF)
- Individual and dot- matrix fonts, such as high-speed or OCR
- Machine-readable codes: *ID-MATRIX* (ECC100, 140, 200: 10x10 to 144x144 for square formats, 8x18 to 16x48 for non-square formats; ECC plain [free config. ECC code]; QR-Code); *BAR CODES* (BC25/ 25i/ 39/ 39E/ 93/ 128; EAN13/ 128; UPC\_A; RSS14TR/ ST/ STC; RSS LIM/ EXP)
- Graphics/ graphic components, logos, symbols, etc. (DXF, JPG, AI, etc.)
- Linear, circular, angular text marking; rotation, reflection, expansion, compression of marking contents
- Sequence and serial numbering
- Automatic date, layer and time coding, real-time clock
- Online coding of individual data (weight, contents, etc.)

### Specifications

#### LASER

##### Laser Tube

- Lamp-pumped Nd:YAG laser, power class 100 W, cw or pulsed (3,000-65,000 Hz), 1.064 μm

##### Laser Beam Deflection

- Digital high-speed galvanometer scanner

##### Focusing

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

##### OPERATION

- Several options: PC, handheld control unit or software interface
- Real time operation concept
- Storage: RAM 128 MB, Multi Media Card 512 MB minimum

##### Handheld Control Unit (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)

- Graphics-orientated user interface under Windows® XP/ Vista for the intuitive and fast preparation of complete marking jobs on PCs
- System configuration
- Text/ data/ graphics/ parameter editor
- Configurable in 11 languages, e.g. in English, German, Spanish
- Easy access to standard CAD and graphics programs thanks to import functions for the most important file formats
- WYSIWYG
- Various password-protected security levels

##### Smart Graph Com

- ActiveX software interface for integration into operation software

##### Communication

- Ethernet (TCP/IP, 100Mbit LAN), RS232
- Inputs for encoders, bar code readers and product detector
- 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 by means of the laser's scripting interface
- Integration via Ethernet and RS232 interface
- Easy integration via flexible umbilical (6/ 10/ 15 m)

##### SUPPLY

##### Electricity/ Cooling

- 3/N/PE 400/230V 50/60 Hz, <7kVA (incl. cooling)
- Internal water/ water heat exchanger
- Connection for external water / air heat exchanger optional

##### Environment

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

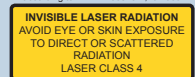
##### Sealing and Safety Standard

- Supply unit IP22, marking head: IP44, laser head: IP42, LASER CLASS 4

##### Dimensions and Weight

- Supply unit 123 kg/ 271 lbs, marking unit 29 kg/ 63 lbs

according to DIN EN 60825-1:10/2003



CE conform



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