![ALLTEC logo]

make your mark

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

- *High-speed marking:* up to 30,000 mm/s and 15 m/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.
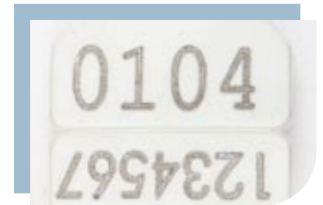
Packaging, CPG, food and beverage industries:
can tabs
coated aluminium

Electronics/ electrics:
electric and electronic housings
PVC

Animal breeding:
animal ear tags
rubber compounds
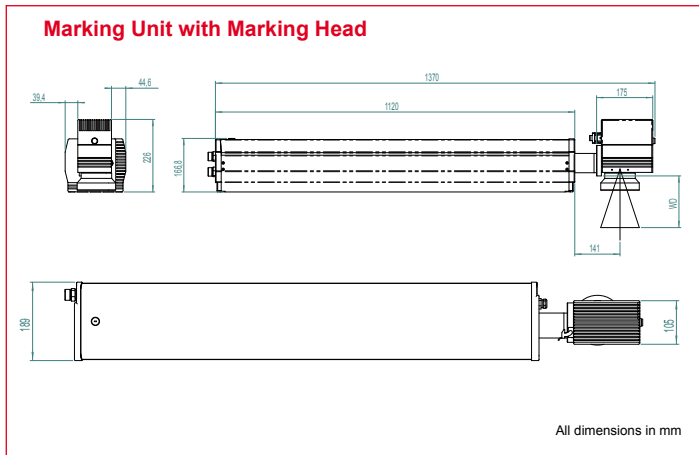

Tool & metal manufacturing:
measuring instruments
plain metal part

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
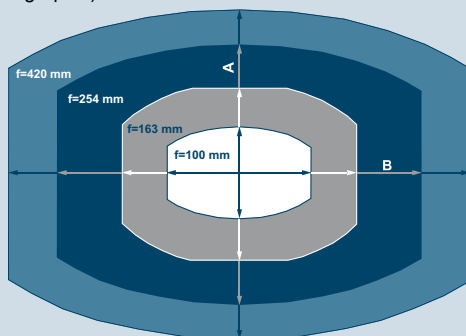
MARKING FEATURES

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 400V 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)
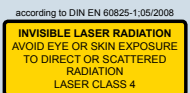• Humidity 10 - 90 %, non-condensing

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;05/2008

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE
TO DIRECT OR SCATTERED
RADIATION
LASER CLASS 4

CE conform

ALLTEC GmbH
An der Trave 27-31 | 23923 Selmsdorf | Germany
Phone 00 49 . (0) 388 23. 55-0 | Fax 00 49 . (0) 388 23. 55-222
Email contact@alltec.org | www.alltec.org

make your mark