



ALLTEC LC300 Laser Marking System

The easy-to-use,
flexible-to-integrate, high-speed
30-watt laser marker



- **High quality, consistent, crisp marking** – through superior high-speed technology
- **More information at high speed** – multi-line text, machine-readable codes, graphics
- **Easiest integration** – flexible standard components

The **ALLTEC LC300** laser marking system delivers high resolution marks on a wide range of products such as packages (labels, glass and plastic containers, tubes, cardboard cartons, etc.), plugs, switches, sensors, electrical appliances, profiles and door/ window sealings.

This **laser marking system** is well-suited for applications in the food, beverage, pharmaceutical, cosmetics, automotive, electronics and extrusion markets.

The **ALLTEC LC300** system is easy to operate via a handheld control or external devices. The intuitive software allows for quick and easy job edits.

Cartons



Glass Container



PET Bottle



Sensor Housing,
Plastics



Car Door Profile,
Rubber



10 watts for more speed,
easier handling and
more flexible integration



- **Fast and expressive:** excellent marking quality, reliable legibility and extreme reproducibility thanks to advanced high-speed technology.
- **Higher yield:** more information at high speed, from multi-line texts through graphics to machine-readable codes.
- **Simple installation:** thanks to flexible beam delivery options and a unique communication concept.
- **Better marking** with high definition precision optics in an exceptionally large marking field.

From paper to cardboard packaging to PET containers, from electrical and electronic components and automobile parts to extrusion products, **the spectrum of products and materials that can be marked with the ALLTEC LC100 is virtually unlimited.** The same thing goes for the type of information to be applied, which ranges from expiry dates and manufacturer's information through batch and line numbers, ID matrix and bar codes to graphics and individual data.

All types of markings are applied in top quality, even in lines with an enormous operational capacity. The ALLTEC LC100 marks more information at high speed than comparable systems. Additionally, the compact design, flexible components and innovative communication and interface concept ensure fast and simple integration.

Packaging:
Pharmaceutical Box



Food/ Beverage:
PET Bottle



Electr(on)ics:
IC



Electr(on)ics:
PCB



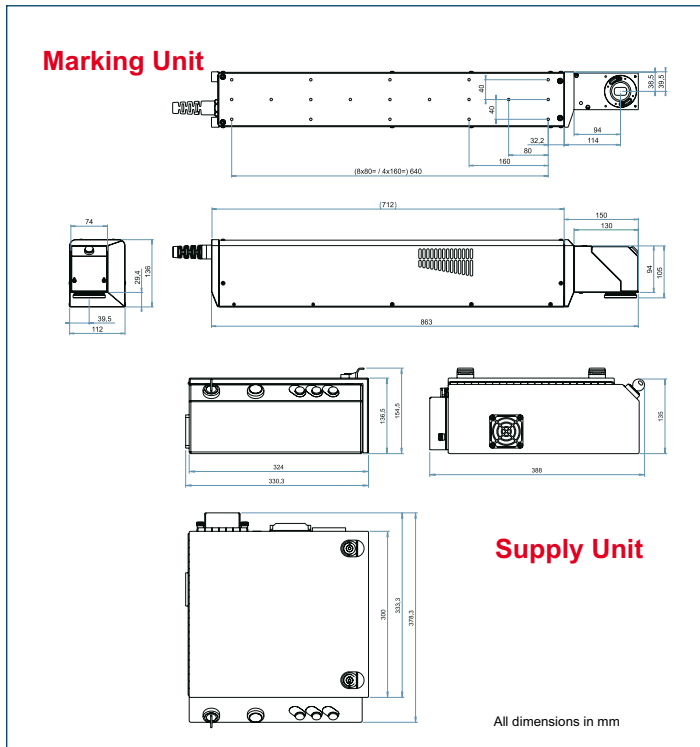
Automotive:
Plastic Part
(Temperature Sensor)



ALLTEC LC100

Laser Marking System

Dimensions



MARKING FEATURES

Marking Speed

- Up to 1,200 characters per second (depending on the application)

Line Speed

- Up to 10 meters per second (depending on the application)

Marking Field

- Stationary products:* approx. 44x44 to 177x177 (standard) or 226 x 325 mm² (optional), unlimited number of lines
- Moving products:* height approx. 44 to 177 (standard) or 325 mm (optional), length does not depend on width of marking field, unlimited number of lines

Marking Formats

- Standard fonts (Windows® TrueType®/ TTF; PostScript®/ PFA, PFB; Open Type®/ OTF)
- Individual 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]); *BAR CODES* (BC25/25i/39/39E/128; EAN13/128; UPC_A; RSS14 truncated/ -stacked [CCA/B]/ -stacked omnidirectional/ -limited [CCA/B]/ expanded)
- Graphics and graphic components, logos, symbols, 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

- Sealed-off CO₂ laser, power class 10 W

Laser Beam Deflection

- Digital high-speed galvanometer scanner

Focusing

- Precision optics: standard focal lengths 64/95/127/190/254 mm (2.5/3.75/5.0/7.5/10.0 inches); optional focal lengths 63.5/85/100/150/200/300/351/400 mm (2.50/3.35/3.94/5.9/7.87/11.8/13.8/15.75 inches)

HANDHELD

- Graphic remote control via Ethernet for flexible operation
- Preparation of marking jobs, marking data entry
- System configuration
- Status und alarm display
- Excellent legibility of graphic display; fast, intuitive operation

SOFTWARE

Smart Graph

- Graphics-orientated user interface under Windows® 2000/XP for the intuitive and fast preparation of complete marking jobs on PCs
- System configuration
- Text/ data/ graphics/ parameter editor
- Languages: German, English, Chinese, Japanese, Russian, Arabic and many others; freely selectable
- 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; optional RS232
- Inputs for encoders and product detector triggers
- 3 inputs/ 7 outputs for start/ stop signals, machine/ operator interlocks, alarm outputs; with additional I/Os extensible
- Customer-specific solutions

Integration

- Direct integration into complex production lines by means of the laser's scripting interface
- Integration via Ethernet (TCP and UDP) and RS232 interface
- Flexible beam delivery options (beam unit/ beam turning unit)

SUPPLY

Electricity/ Cooling

- 100 - 240 V (Autorange), ~50/60 Hz, 1 PH, 0.40 kW
- Air-cooled

Environment

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

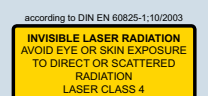
Sealing and Safety Standards

- IP54S, optional IP65; LASER CLASS 4

Weight

- approx. 26 kg/57 lbs.: supply unit ~11.5 kg/25 lbs., marking unit ~15 kg/33 lbs. (laser head 13 kg/29 lbs., standard marking head 1.4 kg/3 lbs.; highest definition marking head 2.2 kg/5 lbs.)

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