

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.



ALLTEC LC300 Laser Marking System

Dimensions



MARKING FEATURES

Marking Speed

• Up to 1,300 characters/sec. (application dependent)

Line Speed

• Up to 15 m/sec. (50 feet/sec.) (application dependent)

Marking Field

- Marking stationary products: from 44 x 44 to 177 x 177 mm² $(1.7 \times 1.7 \text{ to } 7.0 \times 7.0 \text{ inches}^2)$, and options
- On-the-fly marking: max height from 44 to 177 mm
- (1.7 to 7.0 inches), depending on focus options

Marking Formats

- Standard industrial fonts (Type 1 Windows[®], TrueType[®])
- Machine readable codes (OCR, 2D-matrix, etc.) • Bar codes: BC25, BC25l, BC39, BC39E, BC128, EAN128, EAN13, UPC_A, RSS14, RSS14 Truncated, RSS14 Stacked, RSS14 Stacked Omnidirectional, RSS Limited, RSS Expanded, etc.
- · Graphics, logos, symbols, etc.
- · Linear, circular, angular, reverse, rotate
- · Sequential and batch numbering
- · Automatic date, time, shift coding, real-time clock function

Specifications

LASER

- Laser Tube • Single sealed CO, laser, power class 30 W
- **Beam Deflection**
- · Steered beam with digital high-speed galvanometer scanners

Focusina

- Precision lens system
- Focal length 64/ 95/ 127/ 190/ 254 mm (2.5/ 3.75/ 5.0/ 7.5/ 10.0 inch), options

HANDHELD CONTROLLER

- Ethernet-enabled graphic remote control
- Fast and intuitive code setting, system configuration and operation
- · Status and alarm indication with troubleshooting messages
- Excellent display readability

SOFTWARE

Smart Graph

- · Graphical user interface under Windows® 2000/XP for intuitive and quick generation of complete marking jobs on external PCs
- Full feature text/data/graphics/parameter editor
- · Easy access to standard CAD and graphics programs by convenient import functions
- WYSIWYG
- · Multiple security levels with configurable user rights, password pro tected

Smart Graph Com

· ActiveX communication interface to PC networks, digital I/O subsystems

Language Capabilities

· Selectable, permanently installed: English, Chinese, French, German, Italian, Japanese, Spanish and options

Remote Communication

- Ethernet for PC networks. USB
- Optional RS232/422 CAN, Profibus
- · Shaft encoder input
- · Bar code reader input
- More than 100 input/output ports for start/stop signal, machine/user interlocks, product detectors, digital direct selection of jobs (up to 256 within less than 10ms), etc.
- Customer specific solutions

UTILITIES

- **Electrical Requirements** 85-240 V (autorange), ~50/60 Hz, 1 PH, 0.70 kW
- **Cooling System** · Air cooled

Environment

- Temperature range 40-105° F (5-40° C)
- Humidity 10%-90%, non-condensing
- Sealing and Safety Standards
- IP54, optional IP65; LASER CLASS 4 product

Weight

- 35 kg (78 lbs.)



© 2005 ALLTEC GmbH – All rights reserved. ALLTECs policy is one of continued product improvement. We reserve the right to alter design and/or specifications without notice. Windows is a registered trademark of Microsoft Corporation. TrueType is a registered trademark of Apple Computer, Inc. LC300_E 10.05_1 • Printed in Germany

ALLTEC GmbH

An der Trave 27-31 • 23923 Selmsdorf • Germany Tel.: +49-(0)38823 55-0 • Fax: +49-(0)38823 55-222 E-mail: contact@alltec.org • www.alltec.org







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.





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 226x 325 mm² (optional), unlimited number of lines
- Moving products: height approx. 44 to 177 (standard) or 325mm (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;RSS14truncated/-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.)

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

Specifications

LASER Laser Tube

- Sealed-off CO₂ laser, power class 10W
- Laser Beam Deflection
- · Digital high-speed galvanometer scanner
- Focusina
- 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 inter-
- locks, 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/3lbs.; highest definition marking head 2.2 kg/5lbs.)

© 2006 ALLTEC GmbH - All rights reserved. Because ALLTEC GmbH makes constant efforts to improve its products, the company reserves the right to change the design and specifications without giving advance notification. Windows and OpenType are registered trademarks of Microsoft Corporation. TrueType is a registered trademark of Apple Computer, Inc. PostScript is a registered trademark of Adobe Systems Inc. LC100_E 10.06_1 • Printed in Germany





us CE-conform RoHS-conform



S₽ª

