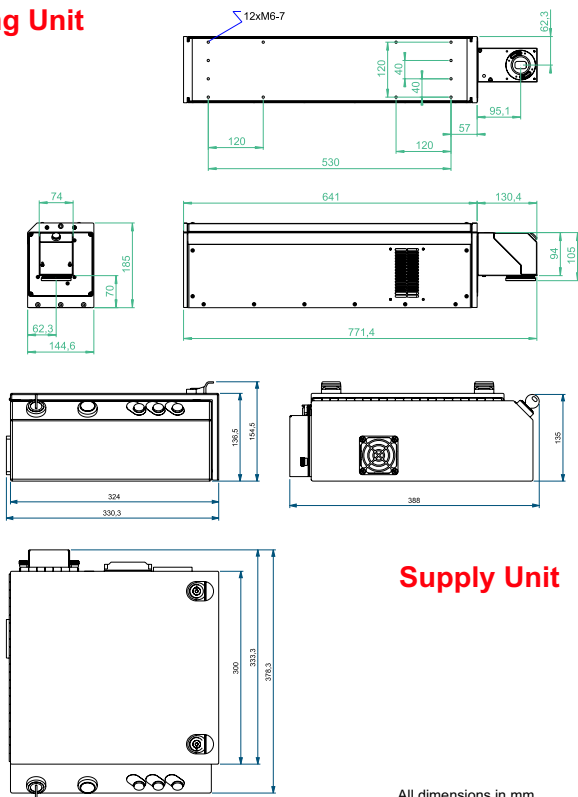


Dimensions

Marking Unit



Supply Unit

All dimensions in mm

MARKING FEATURES

Marking Speed

- Up to 1,300 characters per second (depending on the application)

Line Speed

- Up to 15 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 30 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, 0.70 kW
- Air-cooled

Environment

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

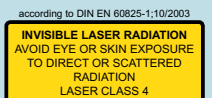
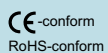
Sealing and Safety Standards

- IP54S, optional IP65; LASER CLASS 4

Weight

- approx. 33 kg/73 lbs.: supply unit ~11.5 kg/25 lbs., marking unit ~21 kg/46 lbs. (laser head 19.1 kg/42 lbs, standard marking head 1.4 kg/3 lbs.; highest definition marking head 2.2 kg/5 lbs.)

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