Linx CSL60

Laser coding system

The Linx CSL60 laser coding system is designed for high-speed coding applications in demanding production environments.

Meets requirements for high quality product coding across the widest range of materials and line speeds.

Wide range of applications

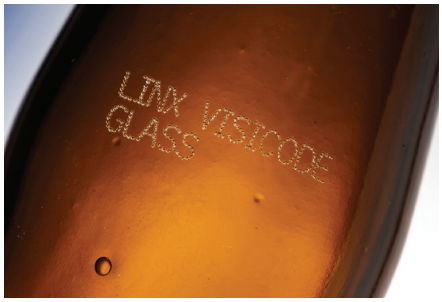
- High power 60 W laser tube – for difficult materials and fast production lines
- High resolution, permanent coding, even on glass and rubber
- Crisp, clear coding on glass even at high line speeds, with VisiCode®, a unique set of parameters which are pre-set in the Linx CSL60
- Largest marking field in the market – for large area coding applications, or across multiple lines of products
- Clear coding onto PET packaging, at high line speeds.

Meet your production targets

- Powerful four-core processor allows coding at fast line speeds with no compromise on code quality. Code up to 70,000 bottles per hour*
- Print large amounts of complex variable data, including 2d barcodes, onto high speed lines
- Highly responsive system enables swift message creation and communication to the laser
- Reliable operation in washdown environments with full system IP65 rating
- The Linx laser tube life is one of the longest on the market at up to 45,000 hours*.

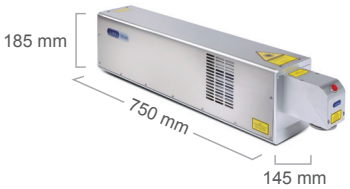
Easy to use

- Large colour LinxVision® Touch Screen with LinxVision software for easy message creation and management of printing parameters
- Setup wizards simplify installation of the laser on your line
- Detachable components make integration into production lines easier
- Flip, mirror or curve text – code onto difficult shapes easily
- Reduce your coding errors and meet coding regulations with password controls that can restrict access to qualified personnel only, and include digital signatures for every user interaction.



Linx CSL60 Scribing Laser Coding System

CSL60 LASER MARKING UNIT



SUPPLY UNIT

LINXVISION TOUCH SCREEN

Technical Specifications

LASER DETAILS

Laser type: sealed RF excited CO_2

Max. laser output (10.6 µm): 60 W

Laser wave length: 9.3 µm or 10.2 µm or 10.6 µm

Laser tube warranty: 2 years

PERFORMANCE

Line speed*: up to 900 m/min

Marking speed*: up to 2100 characters/sec

No. lines of text: only limited by character size and marking field size

Code height: up to marking field size – max height of 601 mm

Print rotation: 0-360°

MARKING HEAD & LENS OPTIONS

Marking head options: SHC60, SHC100, SHC150

Lens (mm): 64, 95, 100, 127, 150, 190, 200, 254, 300, 351, 400, 500, 600

Spot size: from 0.12 mm to 1.65 mm

Marking field size: up to 440 mm x 601 mm

Mark distance: from 67 mm to 576 mm

PHYSICAL CHARACTERISTICS

Material: stainless steel covers, anodized aluminium chassis

Weight: laser head (IP54) – 26.5 kg; (IP65) – 27 kg, Supply unit – 13 kg

Conduit length: 3 m (standard), 5 m (option), 10 m (option)

Marking head mounting options: down (90°), or straight shooter (0°), variable length Beam Extension Units (BEU), 90° Beam Turning Unit (BTU)

Marking head rotation: 0-360° with BEU and BTU

Protection class: IP54 (standard), IP65 (option)

Cooling: IP54 – air cooled, IP65 – Blower Unit (option)

Supply voltage/frequency: auto selection range 100 V to 240 V, 50 Hz / 60 Hz

Maximum power consumption: 1.15 kW

LINXVISION® SOFTWARE

Easy access operator toolbar: date & time offset, variable text, rotate / flip / mirror / curve / scale messsage, adjust laser intensity

Multiple operating languages: Arabic, Brazilian Portuguese, Bulgarian, Chinese Simplified, Chinese Traditional, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Slovak, Spanish, Swedish, Thai, Turkish, Vietnamese

Password protection: multiple protection levels and access rights (User defined)

CODING AND PROGRAMMING FACILITIES

Code options: date, time, static text, variable text, serial numbers, shift codes, increment/ decrement (batch count), 1D/2D barcodes, graphics and logos, Julian date, Custom date and time formats, 2D codes including DotCode

Character type: vector fonts

Standard system vector fonts: OTF, TTF, PFA, PFB and SVG fonts

Optional customized fonts: Arabic, Bengali, Chinese, Japanese, Russian, Thai, Vietnamese

Bar codes: BC25, BC25I, BC39, BC39E, BC93, GSI-128, PZN, EAN 8, EAN 13, BC128, EAN 128, POSTNET, SCC14, UPC_A, UPC_E, RSS14TR, RSS14ST, RSS14STO, RSSLIM, RSSLIMGP, RSSEXP, PDF417

Data matrix 2D codes: ECC000, ECC050, ECC080, ECC100, ECC140, ECC200, ECC PLAIN, QR, MicroQR, Aztec

ENVIRONMENTAL DETAILS

Ambient operating temperature: 5 to 40 °C (70% intensity at maximum temperature)

Automatic overheat detection: yes

Storage temperature: 5 to 65 °C

Humidity range: maximum of 90% (relative, non-condensing)

INTERFACING

Interface ports: 1 detector, 1 encoder, 1 beacon, 1 fume extraction, 2 safety incl single/dual interlock, 1 Serial RS232, 1 Ethernet RJ45, 1 LinxVision Touch Screen

Input/Output options: Job select, Start / Stop, Trigger monitor, Trigger enable, Good / Bad marking signal, Marking, Laser ready, Ready to mark, Shutter closed

SAFETY FEATURES

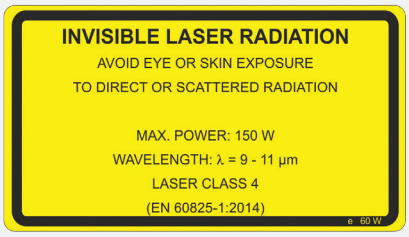
Safety module, machine integrated: with a safety circuit according to EN 13849-1, achieving performance level “d” for the door circuit and performance level “e” for the emergency stop circuit

No safety module: gives Shutter lock with no performance level; Interlock to performance level “d”

REGULATORY APPROVALS

• CE • NRTL/FCC • EAC • RoHS

* Tube life / line and marking speeds are application dependent



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