



# Linx CSL60

## Laser coding systems

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<sub>2</sub>  
 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: SHC60d, SHC100d, SHC120c, SHC150c  
 Lens (mm): 64, 95, 100, 127, 150, 190, 200, 254, 300, 351, 400, 500, 600  
 Spot size: from 0.091 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 message, 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

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

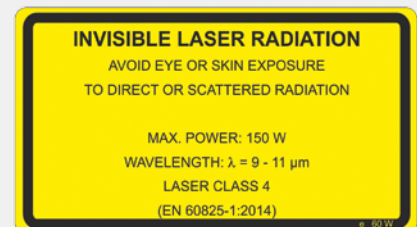
### SAFETY FEATURES

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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