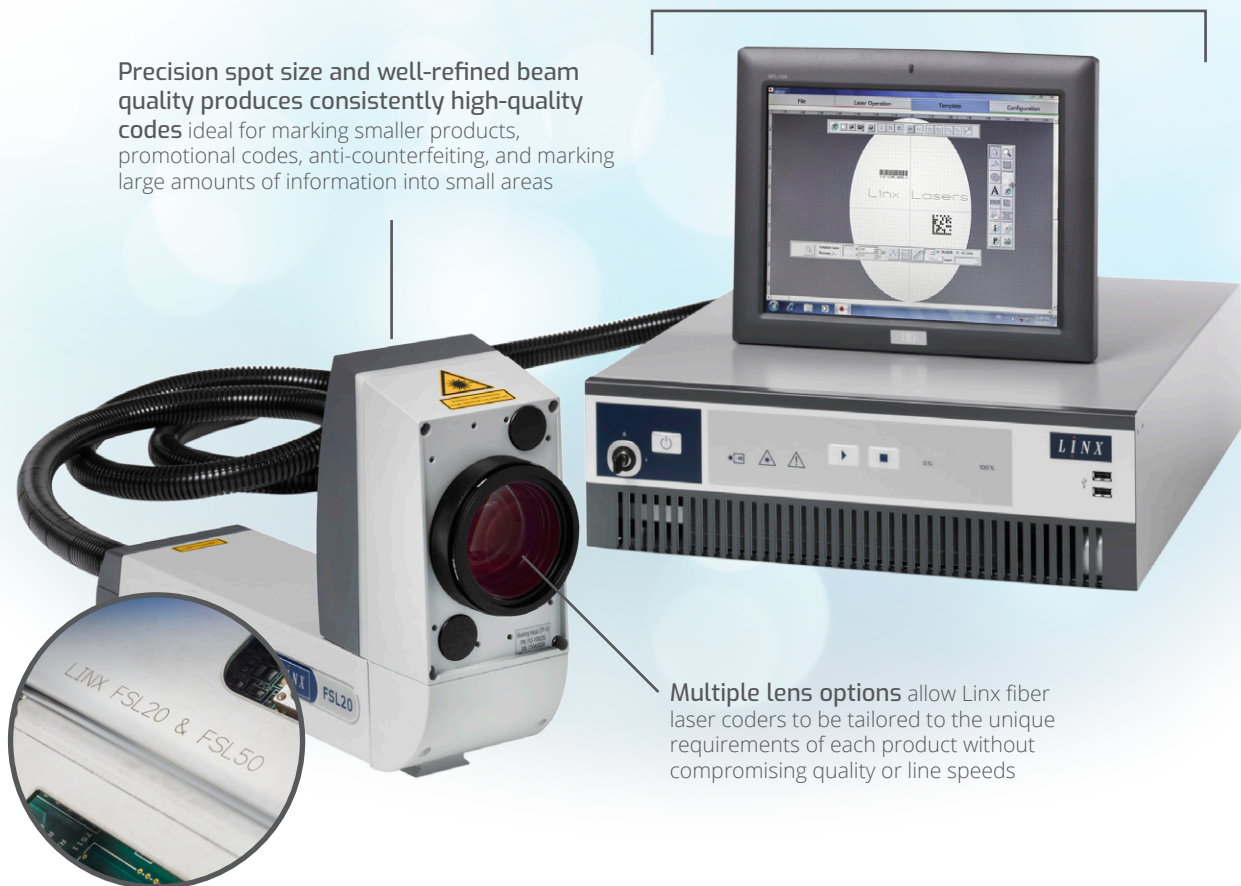# DIAGRAPH

LINX FSL20 & FSL50 FIBER LASERS

The Linx FSL20 and FSL50 fiber laser coders deliver precision marking for complete traceability onto a wide range of materials including metal, plastics and packaging foils. Designed for simple integration into both dynamic and static applications, they also deliver reduced downtime and costs with low maintenance features and a long laser life source of over 100,000 hours.

Compact design for easy integration allows for minimum disruption to existing workflows

Precision spot size and well-refined beam quality produces consistently high-quality codes ideal for marking smaller products, promotional codes, anti-counterfeiting, and marking large amounts of information into small areas

Multiple lens options allow Linx fiber laser coders to be tailored to the unique requirements of each product without compromising quality or line speeds

KEY FEATURES

- **Internal air cooling system** provides increased energy efficiency, less maintenance requirements and a smaller footprint compared to water-cooled lasers

- **High performance line speeds** of up to 236 in/s (6,000 mm/s)

- **Quick and easy message creation** in LinxDraw software, saving time on product setup and changeovers

SPECIFICATIONS

Laser Details	
Laser Type	Ytterbium (Yb) Pulsed Fiber Laser
Laser Class	4 (IV) (acc. To DIN EN 60825-1:2008-05)
Nominal Laser Output	20W and 50W
Laser Wavelength	Central Emission Wavelength: 1064 nm (min: 1055 nm, max: 1075 nm)
Laser Source Life Expectancy	>100,000 Hours

Performance	
Marking Speed	Up to 236 in/s (6,000 mm/s)
No of Lines of Text	Only Limited by Character Size and Marking Field
Character Height	Up to Marking Field
Print Rotation	0-360 Degrees

Physical Characteristics	
Weight (Marking Unit/Supply Unit)	17.6 lb / 41.8 lb
Laser Head Protection Class	IP54
Conduit Length	8.8 ft (2.7m)
Minimum Bend Radius of Conduit	2.3 in (60 mm)
Head Mounting Options	90-Degree (Standard), Straight-Out (Option)
Cooling System	Air Cooled with Automatic Overheat Detection
Supply Voltage/Frequency	Auto-Selection Range 100 to 240 V / 50/60 Hz (Auto Range)
Maximum Power Consumption	500 VA
Operating Temperature Range	50-104°F Ambient

User Interface	
Software	• LinxDraw — Graphics Oriented User Interface for Intuitive and Fast Preparation of Complete Code Templates on PCs • Text/Data/Graphics Editor • Easy Access to Standard CAD and Graphic Programs via Import Functions • Password Protected Security Levels

Marking Formats	
Fonts	Standard (Windows® TrueType®/TTF; PostScript®/PFA, PFB; OpenType®/OTF)
Machine Readable Codes	Barcodes (BC25, BC25I, BC39, BC93, EAN 8, EAN 13, BC128, EAN 128, Postnet, SCC14, UPC_A, UPC_E, RSS14TR, RSS14ST, RSS14STO, RSSLIM, RSSEXP) and Datamatrix 2D codes (ECCOOO, ECC050, ECC080, ECC100, ECC140, ECC200, ECC PLAIN, QR)
Graphics	Yes (DXF, JPG, AI)
Sequence & Serial Numbering	Automatic Date, Layer, Time Coding, Real-Time Click, Online Coding of Individual Data (Weight, Contents, etc.), Serialization