

Product Sheet

GCC Laserpro Spirit LS PRO

Category: CO2 laser, Fiber MOPA

Spirit LS PRO – When performance meets perfection

LaserPro Spirit LS PRO is designed for demanding environments where speed, accuracy and reliability are crucial. With advanced camera technology, intelligent motion control and robust mechanics, it delivers uncompromising quality in both engraving and cutting. A reliable partner for professional production – regardless of material or application.

- Large working area
- Extremely high speed
- SmartEYES CCD camera

Product description

Smart technology in a class of its own!

LaserPro Spirit LS PRO is a high-performance CO₂ laser, designed to deliver fast and accurate engraving and cutting. With market-leading speed, exceptional print quality and a robust construction, this machine is a benchmark in industrial laser engraving.

Thanks to its advanced SmartEYES CCD camera technology and SmartACT™ motion control, you get a machine that combines precision, stability and user-friendliness. Perfect for everything from sign production and promotional items to industrial marking and manufacturing.

With the Spirit LS PRO, you don't just get a laser machine – you get a reliable production partner that ensures efficiency and uncompromising quality in every job. The innovative DuraGuide motion technology and durable Kevlar-reinforced belts guarantee maximum precision and durability, delivering consistently perfect results regardless of the material.

The Spirit LS PRO is built to meet the highest demands – discover why it is one of the most reliable and innovative laser machines on the market!

Description

- Large working area – Up to 740 x 460 mm, providing space for both small and large projects.
- Extremely high speed – Engraving speed up to 3 m/s (120 IPS) for faster production.
- SmartEYES CCD camera – Optical recognition for accurate and smooth material positioning.
- SmartACT™ motion control – Patented technology that optimises the engraving process and reduces cycle times.
- DuraGuide motion system – Kevlar-reinforced belts and enclosed DC servo motor for maximum precision and durability.
- Plug & Play USB connection – Fast and easy data transfer for smooth operation in your production.

Technical Specification

Machine Specifications	
• Workspace	640 x 460 mm (can be extended to 740 x 460 mm)
• Maximum workpiece size	• With doors closed: 762 x 482 x 165 mm • With doors open: 762 x 165 mm
• Machine dimensions (W x D x H)	1125 x 720 x 105 mm
• Laser sources	• CO : 30W to 100W for sealed CO laser • Fibre: 30W or 50W fibre laser
• Cooling	Air-cooled, optimal operating temperature 15° - 30°C
• Drive system	Closed DC servo motor
Maximum engraving speed	
• CO laser	• 30W - 40W: 2.54 m/s (100 IPS) • 60W - 100W: 3.04 m/s (120 IPS)
• Fibre laser	30W or 50W: 3.04 m/s (120 IPS)
• Speed control	Adjustable 0-100% (up to 16 colour-linked settings per job)
• Power control	Adjustable 0-100% (up to 16 colour-linked settings per job)
• Engraving capacity	256-level greyscale imaging
• Z-axis movement	Automatic
• Camera functions	• SmartEYES camera: Standard • SmartVISION Elite camera: Optional
• Focus lenses	• CO : Standard 2.0", optional alternatives: 1.5", 2.5" and 4.0" • Fibre: Standard 4.0", optional alternative: 2.0"
• Resolution (DPI)	125, 250, 300, 380, 500, 600, 760, 1000, 1500
• Interface	• 10 Base-T Ethernet, USB Type A 2.0 (for storage, max 32GB, FAT file format) • USB Type B 2.0 (for connection to computer)
• Compatible operating system	Microsoft Windows
• Control panel	4-inch touchscreen
• Security	• Laser class 1 (EN60825) • Laser class 2 (CDRH) • Machinery Directive 2006/42/EC • Laser class 4 (CDRH) with optional pass-through module
Operating voltage	
• CO laser	• 30W - 60W: 100-240VAC, 50-60Hz, automatic switching, 15A • 80W-100W: 200-240VAC, 50-60Hz, 15A
• Fibre laser	30W and 50W: 100-240VAC, 50-60Hz, automatic switching, 8A
• Extraction system	• External exhaust system required with a minimum capacity of 640m³/h (377 cfm) • Requires 2.3kPa negative pressure (Pure-Air FA-1000P with 3" outlet port recommended)