GCC LaserPro

SMART INNOVATIVE EVOLUTION AT ITS BEST

Spirit LS PRO

CO$_2$ Laser Engraving Machine

SOURCE OF
DIGITAL SOLUTIONS

Welcome to Digital Star, your trusted partner in the world of cutting-edge printing solutions. As a leading printing machines, materials, and ink authorized dealer in Riyadh – Saudi Arabia (KSA), we pride ourselves on delivering state-of-the-art technology that empowers to achieve unparalleled levels of efficiency and quality.

At Digital Star, we understand the pivotal role that printing machinery plays in the success of your operations. With a commitment to innovation and excellence, we curate a diverse range of top-tier printing machines to meet the unique needs of our clients. Our product line-up reflects the latest advancements in the industry.

As a responsible printing machines supplier, we prioritize sustainability. Our commitment to eco-friendly practices is reflected in the products we offer, promoting energy efficiency and environmentally conscious manufacturing processes. When you choose Digital Star, you're not just investing in cutting-edge technology – you're partnering with a company that values the planet as much as your success.

ABOUT US

Spirit LS PRO
Laser Engraving Machine
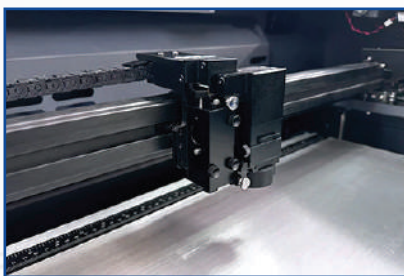
PRODUCT OVERVIEW

Laser Engraver
Spirit LS PRO

LaserPro Spirit LS PRO distinguishes itself from the competition by combining unparalleled speed, output quality, reliability, and user friendliness. With an abundance of useful and innovative features, the Spirit LS sets the standard as the industrial benchmark for laser engravers.

FEATURES

- 640 x 460 mm (25 x 18 in.) working area
- Up to 120 IPS high working speed
- Equipped with SmartEYES CCD, enabling easier positioning
- Patented SmartACT™ motion control technology for higher throughput
- Closed-loop DC servo motor for precise movement of laser carriage
- Reliable DuraGuide motion system with reinforced Kevlar belt delivers superb output quality
- Plug and play standard USB port for rapid data transmission
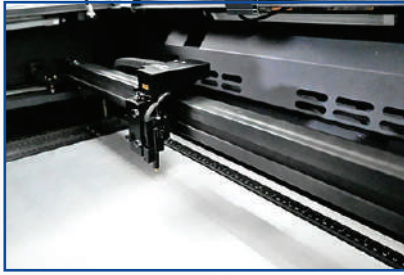- Patented SmartGUARD™ fire alarm device to provide maximum operation safety (optional)

DuraGuide

Systematic and reliable motion system embedded with strong mechanical framework, reinforced Kevlar belts, and accurate servomotor control technology to deliver superb output quality under rapid movement.

SmartLID™ (Patented)

An innovative lid that opens from both ends allowing easier access for daily maintenance.

SmartACT™ (Patented)

Ground-breaking technology that reduces the ramping process, the job running time, which translates into higher productivity.

Easy to use 4" Touch Panel

A touch panel with coherent hot-key design and graphic icon displays that allows you to directly change the laser parameter setting, set jobs to repeat unlimited times, queue jobs, delete jobs, and more.

SmartPIN AutoFocus (Patented)

The plug-and-play probe designmmakes focusing a one-touch process and provides the accuracy and precision required for optimum quality in the lasing process.
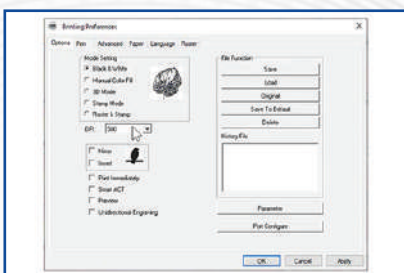

SmartEYES

SmartEYES camera allows you to preview your design to make positioning simple and easy.

Key Switch & Emergency Stop

Key switch safeguards the machine from unauthorized use. Prominent emergency button located on the top of the machine allows operators to stop the laser and the motion carriage immediately to provide a safe operating environment.
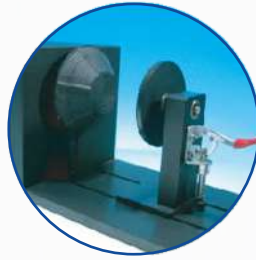

Innovative Software Features

New UI design for a fresh look. Various user friendly features such as SmartCENTER, Defocus by pen, allows users to reduce set up time and make easy adjustments to achieve marvelous output quality.
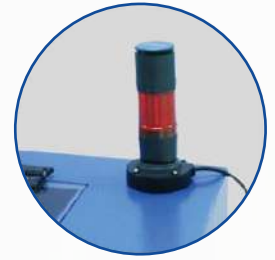
www.digitalstarksa.com

OPTIONAL ITEMS

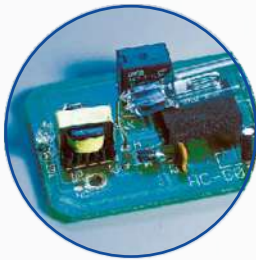Pass-through Door
Switch Module

Rotary Attachment/
Rotary Chuck

Fume Extraction
System

External Signal
Indicator

SmartGUARD™
Alarm (Patented)

Air Compressor
Unit

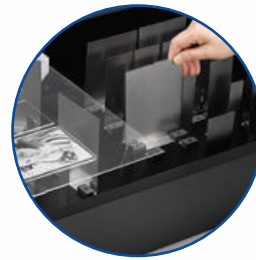SmartPRINT™

SmartAIR Nozzle

External Control
Interface Board

Flame Sprinkler
System

SmartBOX™
Cutting Accessory

Spirit LS PRO
Laser Engraving Machine

PRODUCT SAMPLES

MDF

WOOD CUTTING

TILE

LEATHER

ACRYLIC

TEXTILE/ APPAREL

MODEL: GCC SPIRIT LS PRO

Working Area	640 x 460 mm, Extendable to 740 x 460 mm
Max. Part Size (W x L x H)	All Doors Closed: 762 x 482.6 x 165 mm (30x19x6.5 in.) All Doors Open: 762 x ∞ x 165 mm (30x ∞ x6.5 in.)
Dimensions (L x W x H)	1125 x 720 x 1005 mm (44.3 x 28.3 x 39.6 in)
Laser Source	12 to 100W 10.6-μm sealed CO_2 Laser / 20W & 60W 9.3-μm sealed CO_2 Laser
Cooling	Air-cooled Operating environment temp. 15°- 30°C (60°- 86° F)
Drive	Closed-loop DC servo control
Maximum Motor Speed	120 IPS**
Speed Control	Adjst. from 0.1-100% (Upto 16 color-linked speed settings per job)
Power Control	Adjst. from 0-100% (Upto 16 color-linked power settings per job)
Engraving Capability	256-level gray scale image processing capability
Distance Accuracy	0.254 mm or 0.1 % of move, whichever is greater
Z-Axis Movement	Automatic
Focus Lens	Standard 2.0", optional 1.5", 2.5", & 4.0" available
Resolution (DPI)	Available 125,250,300,380,500,600, 760, 1000, 1500
Interface	10 Base-T Ethernet USB Type-A 2.0- ▭▭▭ For USB storage (Max. 32GB capacity, FAT file system) USB Type-B 2.0 ▭ - For connecting with the computer
Compatible OS	MS Windows
Display Panel	4" Touch panel showing current file name, total working time, laser power, engraving speed, file(s) loaded into memory buffer, setup and diagnostic menus
Operation Voltage	Laser below 80Watt, 100-240VAC, 50-60Hz Auto Switching, Max. 15A Laser 80Watt & above, 200-240VAC, 50-60Hz, Max. 15A

Safety	Class 1 Laser Product Compliant with EN60825, Class 2 Laser Product Compliant with CDRH, 2006/42/EC Machinery Directive Compliance Class 4 Laser Product Compliant with CDRH with the optional pass-through door module
Fume Extraction System	External exhaust system with minimum flow rate 640m^3/h (CFM 377 ft3/min) is required, 2.3kPA negative pressure (Pure-Air PA-1000FS@ 4" exhaust port)

*Speed is not equal throughput. Specifications are subject to change without prior notice.

*The flow rate is determined by a default fume extraction system; the flow rate may vary due to a different fume extraction system

SYSTEM REQUIREMENTS (PC's)

Refer to the appropriate section below for the minimum and recommended computer system requirements necessary to use this printer.

Operating System*	Windows 10 (64 Bit) or Later
Processor	i7 - 2.6 GHz or faster
Memory (RAM)	Min. 8GB or More
Video Card and Monitor(VGA)	1280x1024 or Higher Resolution is Recommended
Working Hard Disk Space	1 TB SSD or more recommended
Graphics Card	2GB or more (Optional)
Optical drive	DVD-ROM
Other requirements	Ethernet connection for network capable printers
	Available USB ports and PCIE Slot
Recommended Brand	Lenovo / Dell

* Note: You can use a laptop or desktop computer

* Use the original operating system and software. If you are using pirated operating system or software, we are not responsible for any damage to Machine workings, and also the warranty terms will become void.

POWER REQUIREMENTS (PC's)

Voltage Regulator	5000W Stabilizer

OTHER REQUIREMENTS (PC's)

Coolant	10L Distlled Water (For Chiller)

TERMS AND CONDITIONS

01. Payment to be made in SAR currency.

02. Payment Terms : As mentioned in Quotation.

03. Bank Charges: Any bank charges relevant to the above transactions will be to your account.

04. Any charges, duties, taxes or levies at the ports of entry will be to our account.

05. The charges of loading, boarding and local conveyance of the technician will be to our account.

06. Any required electrical, mechanical and civil site preparation should be done by the customer according to our engineer's requirements.

07. Digital Star Machinery and Equipments will not be held responsible for delays caused by any damage in the equipment due to shipment, unloading accidents & any related reasons, which is beyond our control.

08. Warranty will be 12 months from the date of installation from Digital Star Machinery and Equipments. Wear and tear, consumables are exempted and warranty can be claimed only if you use the Inks & Services from Digital Star Machinery and Equipments.

09. Service will be free of cost within 12 months from the date of installation.

10. Any claim will be invoice directly to you then we will send for claiming procedure which will take 45-60 days, if the claim got approved credit note will issued directly.

11. Delivery: As mentioned in quotation

شركة النجم الرقمي للآلات و المعدات
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