



EXPERIENCE PEAK PERFORMANCE

Piolas 400

CO₂ Laser Engraving Machine



Authorized Distributor:

شركة النجم الرقمي للألات و المعدات
DIGITAL STAR MACHINERY AND EQUIPMENTS

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.

Piolas 400
Laser Engraving Machine



Desktop Laser Engraver

PIOLAS 400

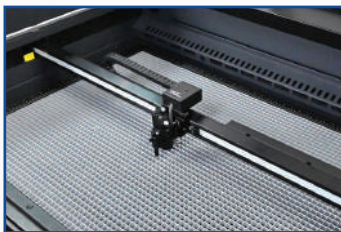
GCC Piolas 400 stands as the pinnacle of our technological advancements, boasting an unprecedented speed of 175 IPS.



With innovative features like SmartEYES™ and live-view CCD, the operation is seamless and effortless. Elevate your artwork to new heights with GCC Piolas 400, delivering unmatched throughput and quality.

FEATURES

- Unmatched engraving speed of 175 IPS (4,445 mm/sec)
- 40" x 24" (1,016mm x 610mm) extra-large working area
- Equipped with smartEYES™ CCD for effortless positioning
- Standard live-view camera for educational purposes
- Brushless DC motor closed-loop servo control ensures precise and rapid movement of the laser carriage
- Comes with a 7" touchscreen display
- Status indicator lights on the upper cover allow users to easily discern the machine's status.
- SmartLID™, an easy-access design that simplifies maintenance



175 IPS (4,445 MM/S) Engraving Speed

Piolas 400 excels in performance, delivering unparalleled productivity benefits



SmartEYES™ CCD

SmartEYE™ CCD on the top lid, offering a comprehensive view of the entire work area for effortless positioning.



Transparent Top-Lid Window

The clear and lightweight top-lid window allows extensive visibility and superior ease of use.



7-inch Touch Panel

Outfitted with standard 7-inch touch panel and button controls for an intuitive and convenient operational experience.



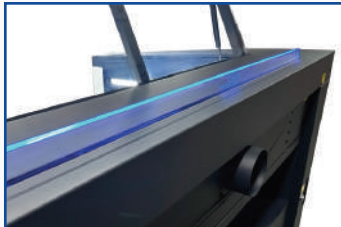
Live-View Camera

The standard live-view camera is an ideal educational tool for real-time observation and learning.



SmartLID™ for Easy Maintenance

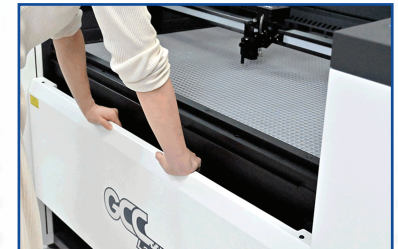
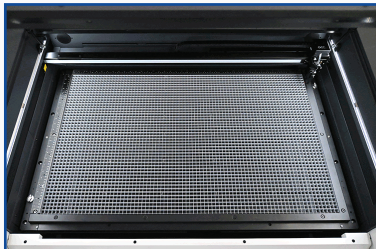
An easy-access design simplifies maintenance.



Status Indicator Light

The status indicator bar displays the machine's current operating state, standby mode, or error status, enabling users to easily monitor the machine condition from a distance.

Easy Platform Switching

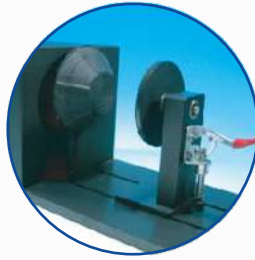


The unique rotary knob design enables easy switching between different cutting platforms.

OPTIONAL ITEMS



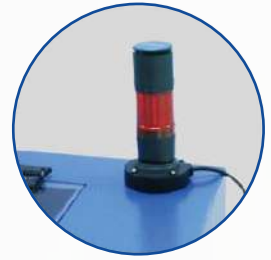
Pass-through Door
Switch Module



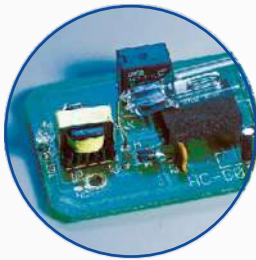
Rotary Attachment/
Rotary Chuck



Fume Extraction
System



External Signal
Indicator



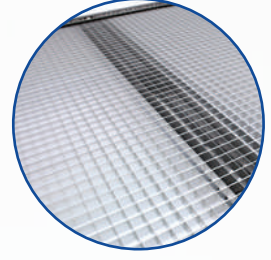
Pass-through Door
Switch Module



Rotary Attachment/
Rotary Chuck



SmartVISION™
Elite CCD



Multiple Table
Choices

Piolas 400

Laser Engraving Machine



PRODUCT SAMPLES



MDF



WOOD CUTTING



TILE



LEATHER





ACRYLIC



TEXTILE/ APPAREL

MODEL: GCC PIOLAS 400

Working Area		1,016 x 610 mm (50x24 in.)		
Max. Part Size (W x L x H)		1,091 x 680 x 280 mm (43x26.8x11 in.)		
Max. Part Size (W x L x H) (with pass-through door module)		1,064 x ∞ x 165mm (41.9 x ∞ x 6.5 in.)		
Table Size		Standard Alu Grid Cutting Table 1,021 x 614 mm (40.2 x 24.2 in.)		
Dimensions (L x W x H)		1,511 x 1,107 x 1,123 mm (59.5 x 43.6 x 44.2 in.)		
Weight		392 kg / 864 lb		
Laser Source (CO ₂)		80W	100W	120W
Cooling		80W~120W - Air-cooled,		
		Operating environment temp. 15°- 30°C (59°- 86°F)		
Drive		Brushless DC motor closed-loop servo control		
Camera	SmartEYES	Standard		
	Live-view camera	Standard		
	SmartVISION Elite	Optional		
Max. Engraving Speed		4.44 m/s (175 in/s)		
Speed Control		Adjust. from 0.1~100% (Upto 16 color-linked speed settings per job)		
Power Control		Adjust. from 0~100% (Upto 16 color-linked power settings per job)		
Engraving Capability		256-level gray scale image processing capability		
Z-Axis Movement		Automatic		
Focus Lens		CO ₂ Standard 2.0" (Optional 1.5", 2.5", 3.0" & 4.0")		
Resolution (DPI)		Available 125, 250, 300, 380, 500, 600, 760, 1000, 1500		
Interface		10 Base-T Ethernet		
		USB Type-A2.0		
		 For USB storage (Max. 32GB capacity, FAT file system)		
		USB Type-B 2.0 for USB Storage		
		 For connecting with the computer		
Compatible OS		MS Windows		

FACILITY REQUIREMENTS	
Operation Voltage	80W & above, 200–240VAC, 50/60HZ Auto Switching, max. 15A
Exhaust Port Diameter	Upper exhaust port diameter: 4" (101 mm) / Lower exhaust port diameter: 5" (127mm)
Fume Extraction System	External exhaust system with minimum flow rate 800m ³ /h (CFM 471 ft ³ /min) is required, 2.3kPA negative pressure (Pure-Air PA-1500FS @ 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
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OTHER REQUIREMENTS (PC's)

Coolant	10L Distilled Water (For Chiller)
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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

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