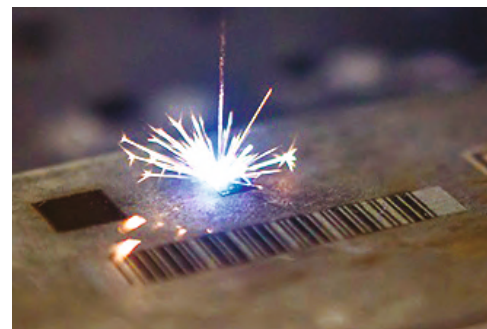




**KNACK
SOLUTION**
नेक सोल्युशन

sparkle[®]
Laser Technology & Innovation

INDIAN MANUFACTURER OF LASER MACHINES



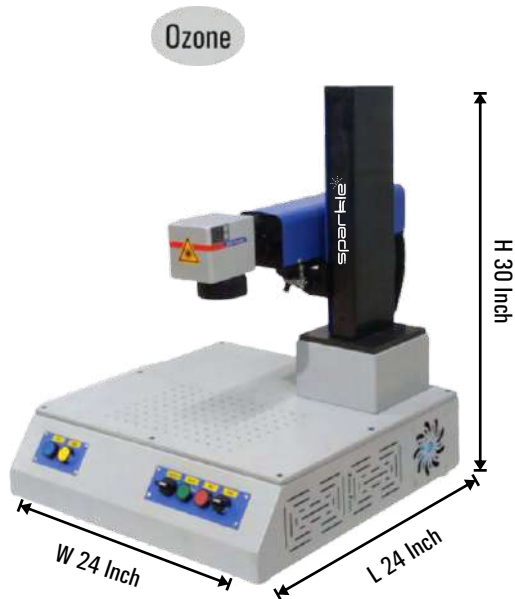
Product Range

- Fiber Laser Marking / Engraving Machine for All Metal
- Metal Laser Cutting Machine / Handheld Laser Welding Machine
- 3D Metal Laser Engraving Machine / 3D Metal Die Engraving Machine
- Jewellery Laser Hallmarking / Gold Silver Cutting Machine
- Jewellery Laser Welding / Soldering Machine
- Co2 Laser Marking / Cutting Machine for All Non - Metal
- Customized Automations / Software Solution

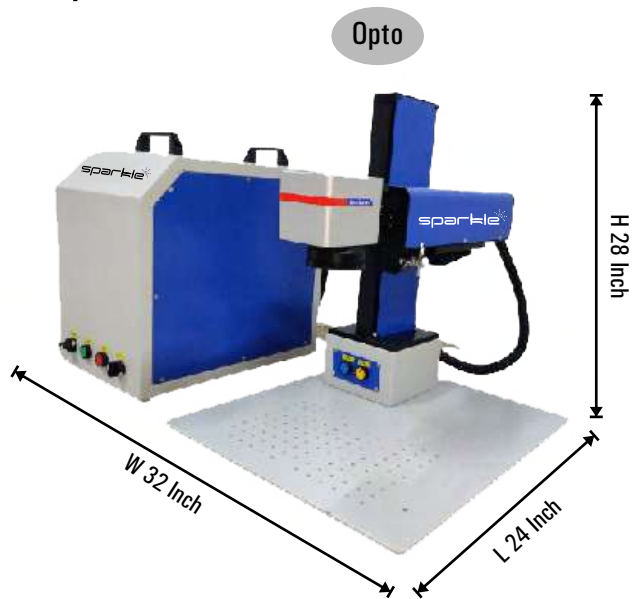


www.knacksolution.com

Compact Size Laser Marking/Engraving Machine (with Computer System)



Approx Weight 40 kg.



Approx Weight 45 kg.

SPECIFICATION

Laser Type	: Pulsed Fiber Laser
Average Output Power	: 20 W (Optional 30/50/80/100 W)
Wavelength	: 1064 nm
Output Power Stability (Typical)	: 5%
Power Adjusting Range	: 1 ~ 100 %
Resolution Frequency	: 20-500 KHz (Optional)
Beam Quality (M ²)	: < 1.6
Output Beam Diameter (1/e ²)	: 6-9 mm
Max. Linear Speed	: Max 12000 mm/s
Marking Depth	: 0.01 ~ 0.3 mm (Material Depended)
Work Area	: 110mm x 110 mm
Min. Character Height	: 0.2 mm

ELECTRICAL

Power Supply Single Phase	: 220V / 50Hz
Power Consumption	: ~ 500 W
Ambient Temperature Range	: 0° to 25° C
Cooling System	: Air Cooling System

APPLICATIONS



Aluminum, Stainless Steel, Brass, Titanium, Plastic, Alloy Steel, Bronze, Copper, Platinum and so on



Above Both Machine With Smart Motorized Up Down
Also Available Same Machine With Manual Up Down

Customer Scope :-

AC Room would be recommended (25-30 degree)
1 KVA Online UPS System or 1 KVA Servo stabilizer



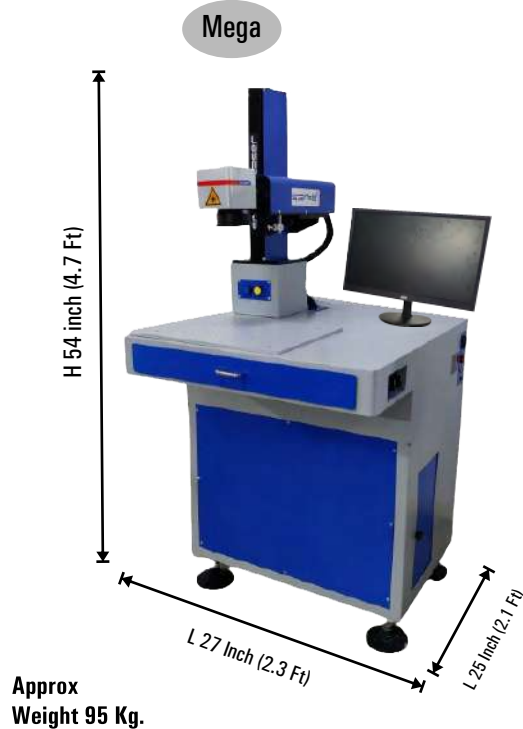
Image Marking



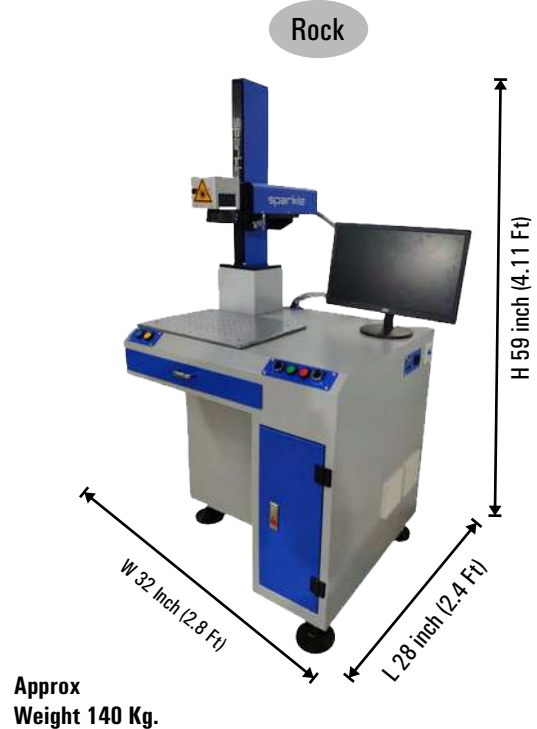
All Machine Come with Full Computer System

Laser Marking / Engraving Machine (with Computer System)

www.knacksolution.com



COMPACT HEAD UP-DOWN & FIXED HEAD WORK TABLE



REGULAR WORK TABLE WITH HEAD UP-DOWN

FEATURES

- Portable machine design with compact size
- Production Report Integration
- Status monitoring and safe shutdown
- Circumferential Markings (Mark Round Parts)
- Maintenance Free with low power consumption (~ 500 W)
- Bar-coding, 2D Data Matrix Codes, Lot Codes, Date Codes
- Real time red beam preview ensures accurate positioning
- Compatible with Surface Marking, Engraving and Texturing
- Support customized software and automation integration
- Scribing operations, Surface Annealing and Etching
- Marking Alphanumerics, Serial Numbers and Part Numbers
- Marking of Logos, Schematics, Complex Graphics (PLT, SVG, DXF, DWG) and Pictures (BMP, JPEG, PNG)
- Auto Marking functionality, Boundary & Round Preview

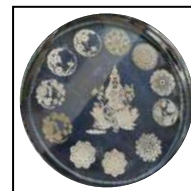
Working Area :

150mm x 150mm (Optional 175/220/300)



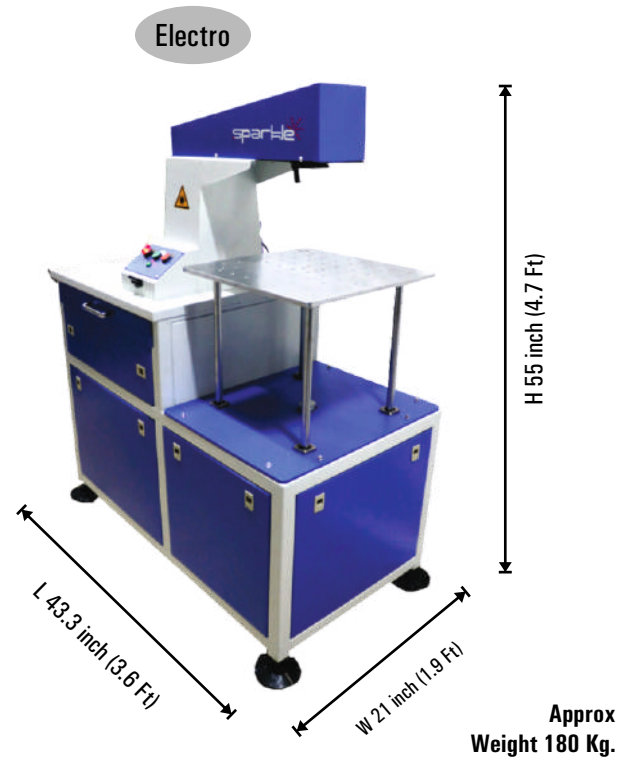
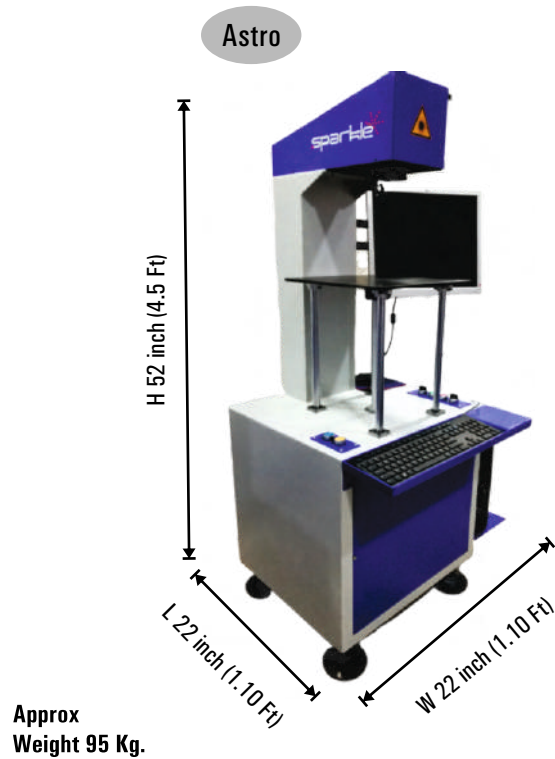
Rotary Attachment (Optional)

APPLICATIONS



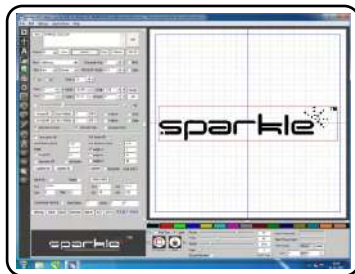
Aluminum, Stainless Steel, Brass, Titanium, Plastic, Alloy Steel, Bronze, Copper, Platinum and so on

Laser Marking / Engraving Machine (with Computer System)



COMPACT WORK TABLE UP-DOWN & FIXED HEAD

REGULAR WORK TABLE UP-DOWN & FIXED HEAD



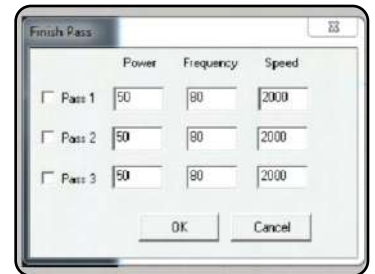
Sparkle Software
Customized / In House R&D



Material Store



Production Report



Auto Finish After Mark



Operator Friendly Machine Design



Online Service Support



Indexing Table



Round Table Automation

Aluminum, Stainless Steel, Brass, Titanium, Plastic, Alloy Steel, Bronze, Copper, Platinum and so on

CUSTOMIZE MODELS (with Computer System)

Rockside



DETACHABLE MODEL

M360°



360° MODEL

Handy Compact



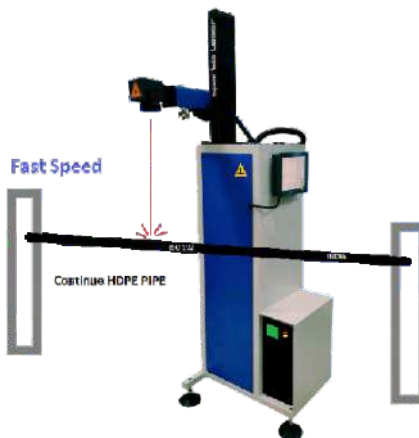
HAND-HELD

Semi Flyer



CONTINUE FLYING

Full Flyer



CONTINUE FLYING

Convo Fly



CONTINUE FLYING

Mega Long



MORE HEIGHT PRODUCT

Auto Rotary Index



CUSTOMIZE PRODUCT

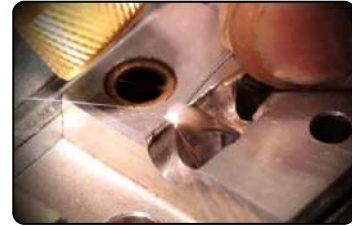
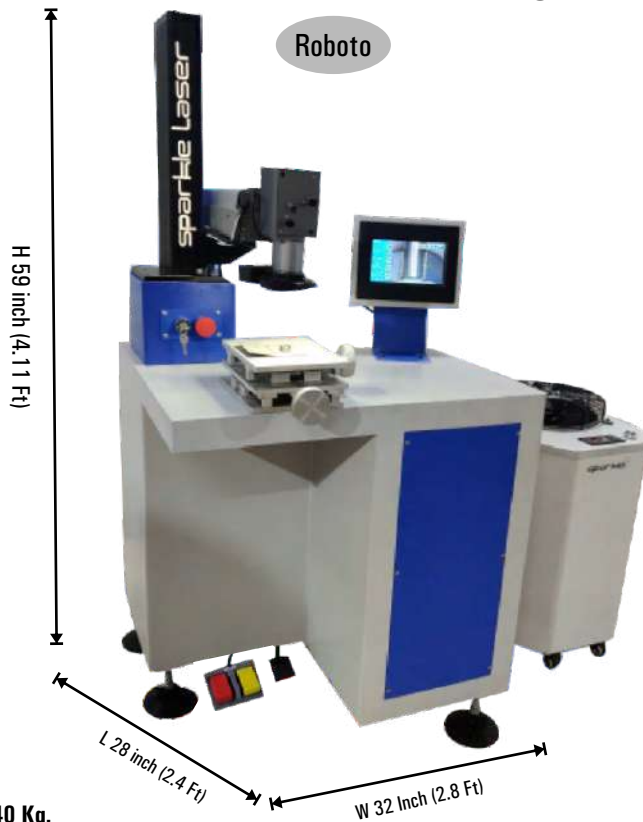
Close Body
Automation



CLOSED BODY

LASER WELDING MACHINE FOR METALS

www.knacksolution.com



Approx
Weight 140 Kg.

Customer Scope :-

AC Room would be recommended (25-30 degree)
5 KVA Online UPS System or 5 KVA Servo stabilizer

SPECIFICATION

Model No.	: SLW-100 / SLW-200 / SLW-300
Output Power	: 100 W / 200 W / 300 W - based on requirement
Single-pulse energy	: 0-100 J
Machine Design Type	: Desktop / Vertical
Laser Source	: ND:YAG
Laser Wavelength	: 1064 nm
Pump lamp	: Pulsed Xenon Lamp
Pulse Width	: 0.1-15 ms adjustable
Pulse Repeated Frequency	: 1 ~ 20 Hz adjustable
Welding spot diameter	: 0.2-1.5 mm adjustable
Observing System	: Microscope / CCD - based on requirement
Cooling System	: Water chiller
Power Supply	: Single Phase AC 220V $\pm$ 10%, 50Hz / 60Hz, 4 KW
Running Environment	: Temperature 5°C-28°C Humidity 5%-70%



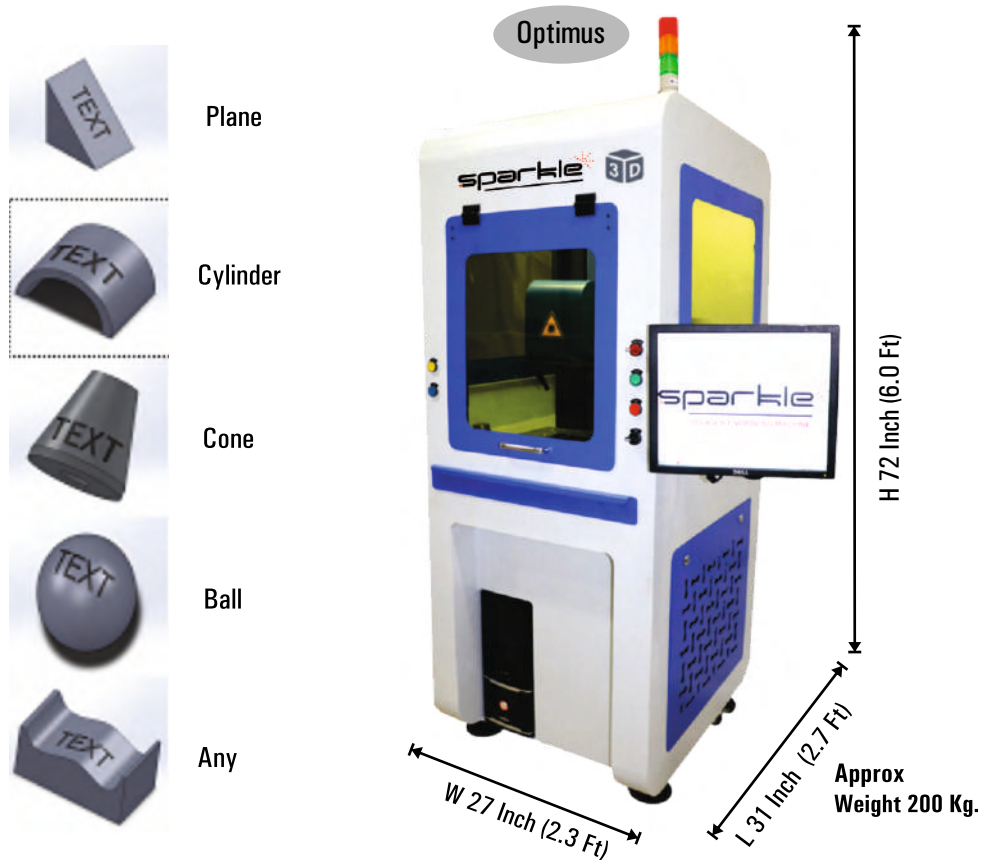
XYZ With Rotary - 4 Axis Automation Also Available

APPLICATIONS



Aluminum, Stainless Steel, Brass, Titanium, Alloy Steel, Bronze, Copper, Platinum and so on

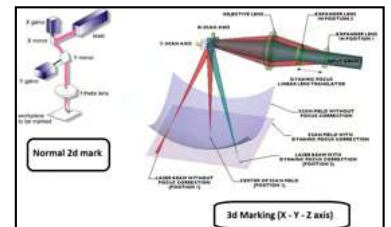
3D Metal/Die Laser Engraving Machine (with Computer System)



SPECIFICATION

Model	: KS-SP3D
Output Power	: 50W / 100W
Repeat Frequency	: 30K-200KHZ/5K-200KHZ
Minimum line width	: 0.03mm
Marking speed	: < 10000mm/s
Cooling system	: Air Cooling
Power Supply	: AC 110V/220V optional/50-60HZ
Marking Area	: 110mmx110mm/300mmx300mm (optional)
Laser Power	: 20W/30W/50W/100W(optional)
Laser Wavelength	: 1064nm
Maximum Power	: < = 1500W
Working environment	: temperature 10-35°C/humidity 5-75%

APPLICATIONS



Aluminum, SS, Brass, Titanium, Alloy Steel, Bronze, Copper, Gold, Silver, Platinum

Co2 LASER ENGRAVING & CUTTING MACHINE

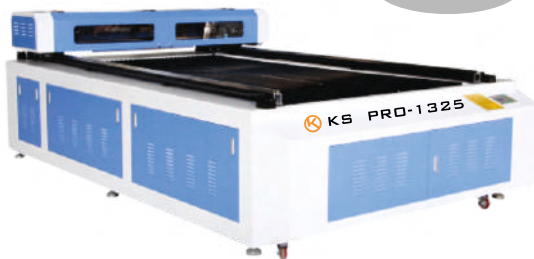


Co2-9060



Co2-1390

:: Optional Size ::
 600x400, 900x600, 1300x900,
 1300x2500, 1600x1000, 1800x1000
 Double Head & Four Head Available
 (all Dimensions in mm)



Co2-1325

With :



Honey Comb



Blower



Chiller

SPECIFICATION

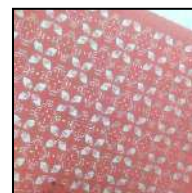
Output Power	: 80W, 100W, 130W, 150W)
Laser Tube Brand	: ERF or Reci
Control System	: Ruida 6442S
X axis	: Square Liner Guides
Y axis	: Double Square Guides
Z axis adjust Height	: 180mm
Minimum letter	: English 1.5x1.5mm
Resolution	: ±0.05mm / 1000DPI
Position System	: Red-Light pointer
Motor	: 57 Leadshine Stepper Motor
Cooling Mode	: Water Cooling & Protection System
Life	: < 7000 Hour

Customer Scope :-

AC Room would be recommended (25-30 degree)
 5 KVA Online UPS System or 5 KVA Servo stabilizer

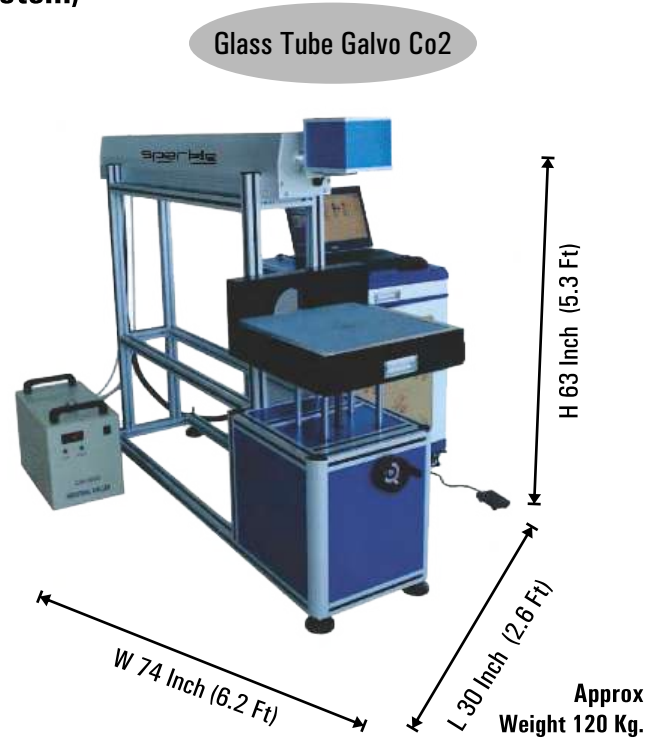
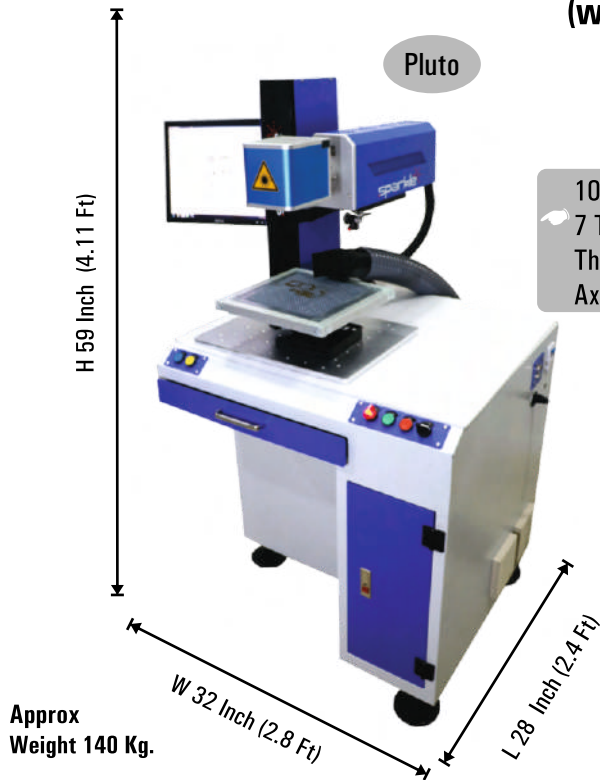
Types of Work Table	: Honeycomb (Cutting Blades Table Optional)
Compatible Software	: CorelDRAW, Auto cad, Photoshop, Ai
Engraving Speed	: 1-800 mm/sec
Cutting Speed	: 1-100 mm/sec
Transmit System	: Square guide rail and Belt System
Machine Software	: Ruida
Support Graphics Formet	: DST, PLT, BMP, DXF
Air Cooling Sysetem	: Air Compressor
Working Voltage	: Ac110 - 220V ± 10%, 50-60Hz
Power Consumption	: < 2000W (Total)
Operation Temperature	: 0-45°C 5-95%(Humidity)

APPLICATIONS



Fabrics, Wood, Jade, Acrylic, Glass, Ceramic, Leather, Marble, Paper, Rubber, Wood Veneer, Plastic

Non Metal Laser Engraving/Cutting Machine (Co2 Laser) (with Computer System)



RF Co2 Metal Tube With Scan Head

SPECIFICATION

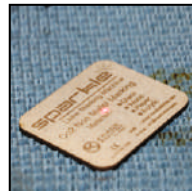
Output Power	: 30W (50W, 100W)
Frequency & Duty Cycle	: 0 ~ 25KHZ, 0 ~ 100%DC
Beam diameter	: 1.8±0.2mm
Max Engraving Speed	: 1-60000 mm / min
Max Cutting Speed	: 1-10000 mm / min
Up/Down Size	: 300mm
Graphics file format	: DST, PLT, BMP, DXF
Computer System	: Yes
Cooling Way	: Air Compressor
Operating temperature	: 0-45°C
supply voltage	: Ac110 - 220V± 10%, 50-60Hz
Power Consumption	: < 575
Life	: < 20000 Hour

APPLICATIONS

Co2 Glass Tube Axis Base Machine

SPECIFICATION

Output Power	: 100W (80W, 130W, 150W)
Cooling Mode	: Water Cooling & Protection System
Types of Work Table	: Blades Table & HoneyComb
Compatible Software	: CorelDRAW, Auto cad, Photoshop, Ai
Engraving Speed	: 1-24000 mm / min
Cutting Speed	: 1-4000 mm / min
Transmit System	: Square guide rail and Belt System
Machine Software	: Ruida
Support Graphics Format	: DST, PLT, BMP, DXF
Air Cooling System	: Air Compressor
Working Voltage	: Ac110 - 220V± 10%, 50-60Hz or
Operation Temperature	: 0-40°C
Driving System	: Stepper motor and driver System
Life	: < 7000 Hour



Fabrics, Wood, Jade, Acrylic, Glass, Ceramic, Leather, Marble, Paper, Rubber, Wood Veneer, Plastic, Tiles

Sparkle Fiber Laser Welding Machine

Falcon Handheld



Handheld



AUTO WIRE FEEDER (Optional)



SPECIFICATION

Laser Source	: Pulsed Fiber RFL - C500
Average Output Power	: 1 KW
Wavelength	: 1080nm
Output Power Stability (Typical)	: < 2%
Power Adjusting Range	: 1 ~ 100%
Max Power (W)	: 500w
Pulse Width (ms)	: 0.05-0.6
Output Power Stability	: < 2%
Fiber Core Diameter (um)	: 25/50/100 Optional
BBP (mm m rad)	: 0.4, 2.5
Wlding Depth	: 0.2-1mm
Beam Range	: 0.1-4.0 mm
Auxiliary Gas	: Argon
Weight	: < 50
Cooling	: Watering Cooling
Operating Temperature	: 10-40

Falcon Auto



ELECTRICAL

Power Supply	: 200-240VAC/47-63Hz
Control Model	: External RS232/AD
Power Consumption	: 1200W
Ambient Temperature Range	: 0 to 25 C
Cooling System	: Air Cooling System

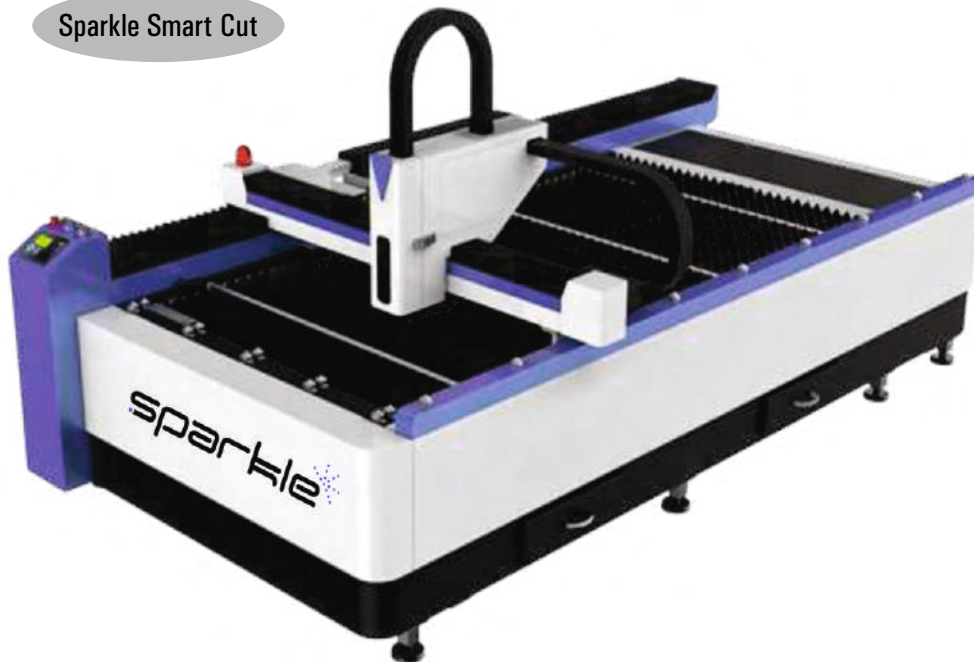
APPLICATIONS



Stainless Steel, Carbon Steel, Galvanized Sheet, MS.

FIBER LASER CUTTING MACHINE

Sparkle Smart Cut



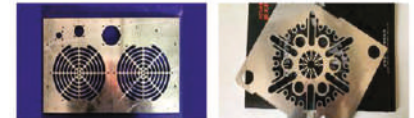
Carbon Steel



Stainless Steel



Aluminum



Copper



SPECIFICATION

Fiber Laser Source	: Ipg / Raycus / Max - 500w / 1kw / 1.5kw / 2kw
Laser Head	: Swiss Raytools Laser Head
Transmission System	: Dual Drive Precise And Pinion
Guide Rail	: Taiwan Hiwin
Rack & Pinion	: Taiwan Yyc
Speed Reducer	: Japan Shimo
Servo Motor	: Japan Yaskawa
Water Chiller	: Hanli
Control System	: Cypcut
Proportional Valve	: Japan Smc

Auxiliary Parts	: Exhaust Fan
Electronics	: France Schneider
Computer	: Yes
Auto Lubrication	: Yes
Wireless Handle Control	: Yes
Working Area (l*w)	: 1500 X 3000
X/y Axis Repeated Position	
Precision	: +0.02mm
Machine Gross Weight	: 3.0t
Voltage	: Three-phase 380v 50/60hz

APPLICATIONS

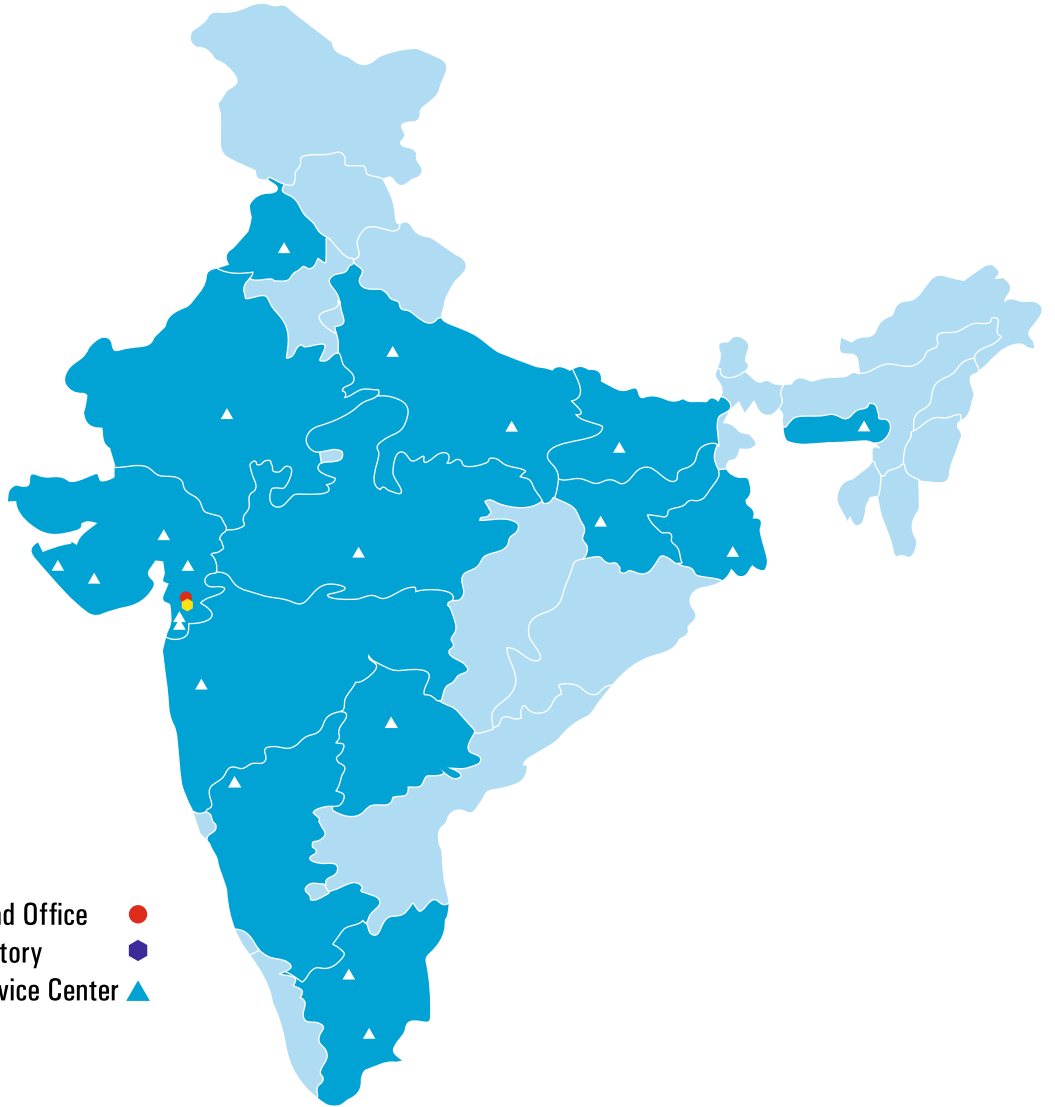


Carbon Steel, Stainless Steel, Aluminum, Copper

- **Surat**

- Ahmedabad
- Bengaluru
- Belguam
- Bihar
- Chandigarh
- Coimbatore
- Delhi
- Hyderabad
- Jamnagar
- Jaipur
- Kolkata
- Ludhiana
- Mumbai
- Patna
- Pune
- Rajkot
- Trichy
- Vadodara
- Valsad
- Vapi
- & All Over India

Head Office ●
Factory ■
Service Center ▲



An ISO 9001:2008

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