



**INDIAN MANUFACTURER OF JEWELLERY LASER MACHINES**



**Hallmarking / Stamping**

**3500+ SUCCESSFULL INSTALLATION ALL OVER INDIA, USA, NEPAL, CANADA, BANGLADESH**



**Soldering / Welding**



**Gold / Silver Cutting**

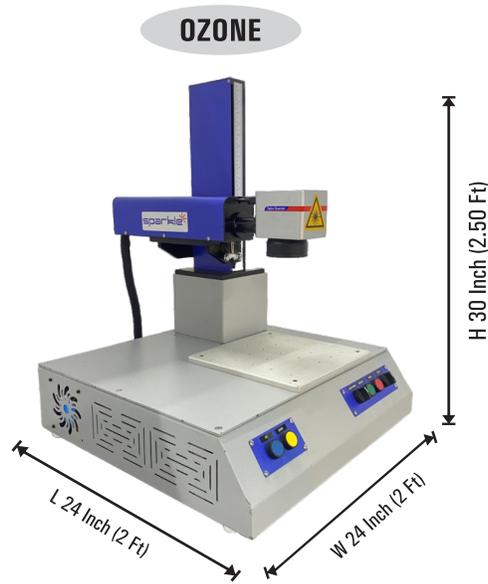


[www.sparklelaser.com](http://www.sparklelaser.com)

**Product Range**

- Jewellery Laser Hallmarking / Stamping Machine
- Gold, Silver Laser Cutting Machine
- Gold, Silver Laser Stamping Machine
- Jewellery Laser Spot Welding / Soldering Machine
- 3D Jewellery Die Machine / 3D Die Engraving

## Jewellery Laser Hall Marking Machine / Laser Stamping Machine



Approx Weight 40 Kg.



Approx Weight 45 Kg.

**FIXED WORK TABLE**

### SPECIFICATION

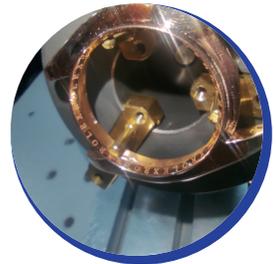
Laser Type	: Pulsed Fiber Laser
Average Output Power	: 20 / 30 / 50 / 100 W
Wavelength	: 1064 nm
Output Power Stability (Typical)	: 5%
Power Adjusting Range	: 1 ~ 100 %
Resolution Frequency	: 20-500 KHz
Beam Quality (M <sup>2</sup> )	: < 1.6
Output Beam Diameter (1/e <sup>2</sup> )	: 6-9 mm
Max. Linear Speed	: Max 12000 mm/s
Marking Depth	: 0.01 ~ 0.3 mm (Material Depended)
Min. Line Width	: 0.03 mm
Min. Character Height	: 0.2 mm
Repetition Accuracy	: 0.2 μm

#### Customer Scope :-

AC Room Would be Recommended (25-30 Degree)  
1 KVA Online UPS System or 1 KVA Servo Stabilizer

### ELECTRICAL

Power Supply	: 220V / 50Hz Single Phase
Power Consumption	: ~ 400 W
Ambient Temperature Range	: 15° to 25° C
Cooling System	: Air Cooling System



Rotary Attachment (Optional)

### APPLICATIONS



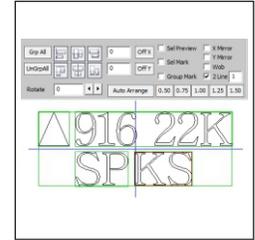
Jewellery Gold, Silver Hall Marking, Dies, Jigs, Moulds, Bolts, Screws, Pins and Components

## FEATURES

- Portable machine design with compact size
- Production Report Integration
- Status monitoring and safe shutdown
- Maintenance free with low power consumption
- Real time red beam preview ensures accurate positioning
- Marking of Logos, Text, QR and Photo
- Auto marking functionality



Accurate Logo Mark



Auto Arrange



Dual Foot Switch for  
Keep Hand free of Operator



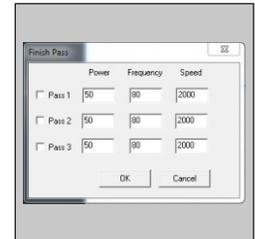
Motorize Up-Down

## SP. FEATURES JEWELLERY MARK

- BIS Huid Auto Integration (Optional)
- Direct SVG file import & Custom Font for Jewellery
- Automatic drawing arrange by single button press
- Automatic size change by single button press
- Size plus-minus by mouse scroll
- Gold light-dark results parameter store
- Single click for set Marking parameters
- Production Check & Clear
- Continues Mark without button Press
- Finish Pass for clear result in 0.3 / 0.4 mm accuracy
- Double pedal switch for Focus Up-Down & Mark



Result Wise No Need to  
Remember Parameters  
Every Time



Auto Finish After Mark

## MATERIALS

Gold, Silver, Platinum,  
Aluminum, Stainless Steel, Brass, Titanium, Plastic,  
Alloy Steel, Bronze, Copper, Silicon



Jewellery Material Parameter Store

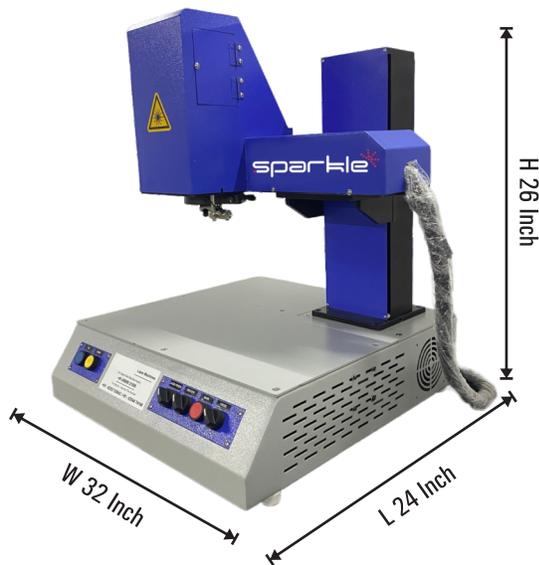
## APPLICATIONS



Gold, Silver, Rose Gold, Copper, Platinum, Titanium, Argentine, Nickel, Aluminium, Stainless Steel and Other

## Jewellery Laser Hall Marking Machine With Camera (CCD)

OZONE CCD



Approx Weight 45 Kg.

**MOTORIZED HEAD UP - DOWN & FIXED WORK TABLE**



Vision System



### SPECIFICATION

Laser Type	: Pulsed Fiber Laser
Average Output Power	: 20 / 30 / 50 / 100 W
Wavelength	: 1064 nm
Output Power Stability (Typical)	: 5%
Power Adjusting Range	: 1 ~ 100 %
Resolution Frequency	: 20-500 KHz
Beam Quality (M <sup>2</sup> )	: < 1.6
Output Beam Diameter (1/e <sup>2</sup> )	: 6-9 mm
Max. Linear Speed	: Max 12000 mm/s
Marking Depth	: 0.01 ~ 0.3 mm (Material Depended)
Min. Line Width	: 0.03 mm
Min. Character Height	: 0.2 mm
Repetition Accuracy	: 0.2 μm

### Customer Scope :-

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

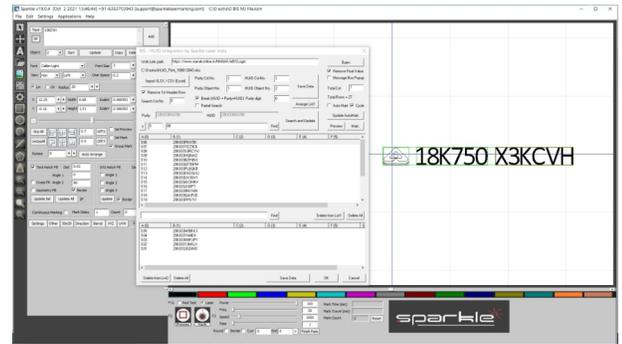
### APPLICATIONS



Gold, Silver, Rose Gold, Copper, Platinum, Titanium, Argentine, Nickel, Aluminium, Stainless Steel and Other

## SP. FEATURES JEWELLERY MARK

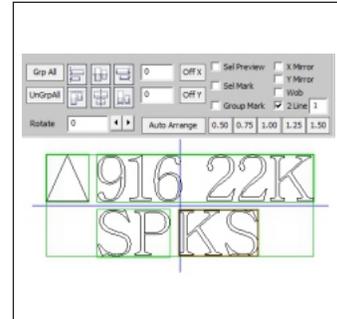
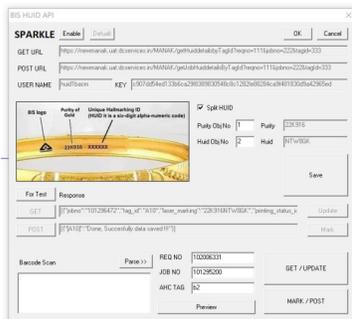
- BIS Huid Auto Integration (Optional)
- Direct SVG file import & Custom Font for Jewellery
- Automatic drawing arrange by single button press
- Automatic size change by single button press
- Size plus-minus by mouse scroll
- Gold light-dark results parameter store
- Single click for set Marking parameters
- Production Check & Clear
- Continues Mark without button Press
- Finish Pass for clear result in 0.3 / 0.4 mm accuracy
- Double pedal switch for Focus Up-Down & Mark



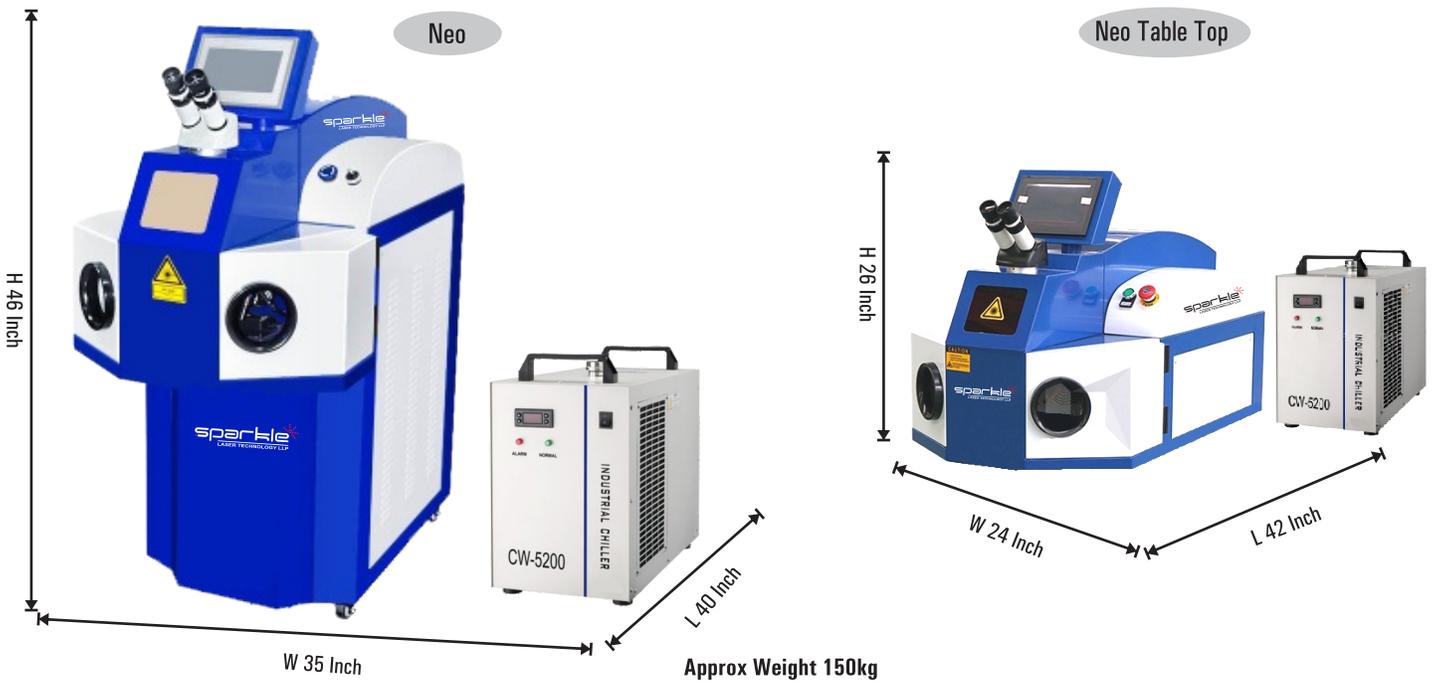
**BIS - HUID Software**

## FEATURES

- Portable machine design with compact size
- Production Report Integration
- Status monitoring and safe shutdown
- Maintenance free with low power consumption
- Real time red beam preview ensures accurate positioning
- Marking of Logos, Text, QR and Photo
- Auto marking functionality



## Jewellery Laser Soldering / Welding Machine



### SPECIFICATION

Model No.	: SLW-100 / SLW-200
Output Power	: 100 W / 200 W based on requirement
Single-pulse energy	: 0-150 J
Machine Design Type	: Desktop / Vertical
Laser Source	: ND:YAG
Laser Wavelength	: 1064 nm
Pump lamp	: Pulsed Xenon Lamp
Pulse Width	: 0.1-20 ms adjustable
Pulse Repeated Frequency	: 1 ~ 50 Hz adjustable
Welding spot diameter	: 0.2-1.3 mm adjustable
Observing System	: Microscope / CCD - based on requirement
Cooling System	: Water chiller
Power Supply	: Single Phase AC 220V ± 10%, 50Hz / 60HZ, 4 KW
Running Environment	: Temperature 5°C-28°C Humidity 5%-70%

#### Customer Scope :-

AC Room would be recommended (25-30 degree)  
7 KVA Online UPS System or 7 KVA Servo stabilizer



Weld On Silver

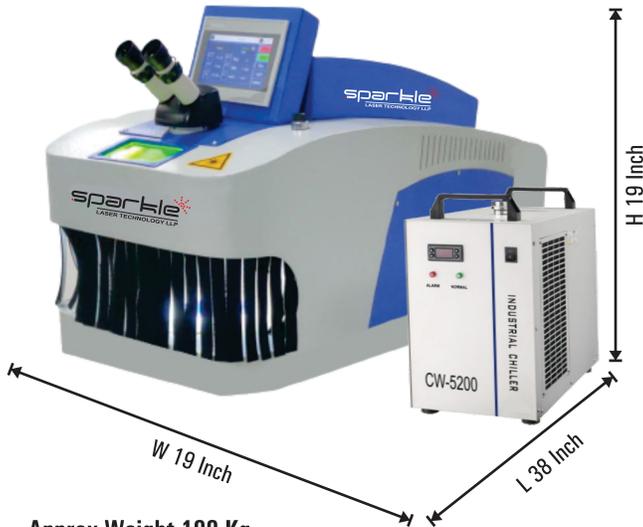
### APPLICATIONS



Gold, Silver, Rose Gold, Copper, Platinum, Titanium, Argentine, Nickel, Aluminium, Stainless Steel and Other

## Jewellery Laser Spot Welding / Soldering Machine

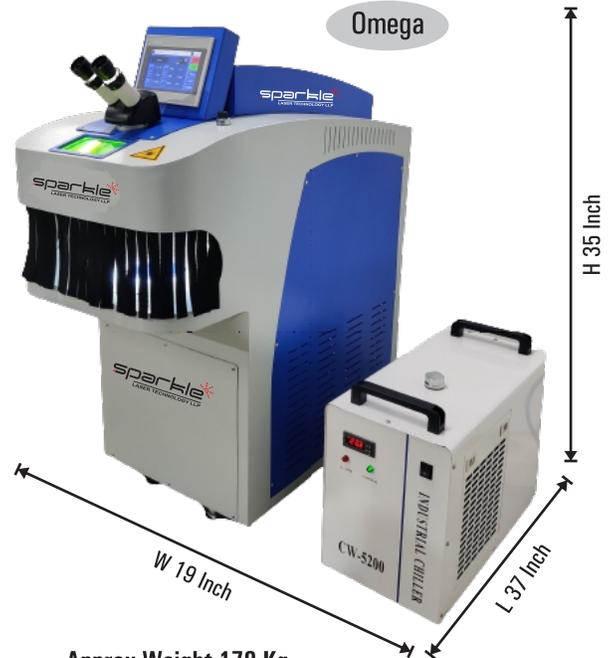
Alpha



Approx Weight 100 Kg.

### COMPACT DESKTOP MACHINE

Omega



Approx Weight 170 Kg.

### REGULAR SMART MACHINE

## SPECIFICATION

Model No.	: SLW-100 / SLW-200
Output Power	: 100 W / 200 W based on requirement
Single-pulse energy	: 0-150 J
Machine Design Type	: Desktop / Vertical
Laser Source	: ND:YAG
Laser Wavelength	: 1064 nm
Pump lamp	: Pulsed Xenon Lamp
Pulse Width	: 0.1-20 ms adjustable
Pulse Repeated Frequency	: 1 ~ 50 Hz adjustable
Welding spot diameter	: 0.2-1.3 mm adjustable
Observing System	: Microscope / CCD - based on requirement
Cooling System	: Water chiller
Power Supply	: Single Phase AC 220V ± 10%, 50Hz / 60HZ, 4 KW
Running Environment	: Temperature 5°C-28°C Humidity 5%-70%

### Customer Scope :-

AC Room would be recommended (25-30 degree)  
7 KVA Online UPS System or 7 KVA Servo stabilizer



(With Cooling Heavy Capacity Chiller)



## APPLICATIONS

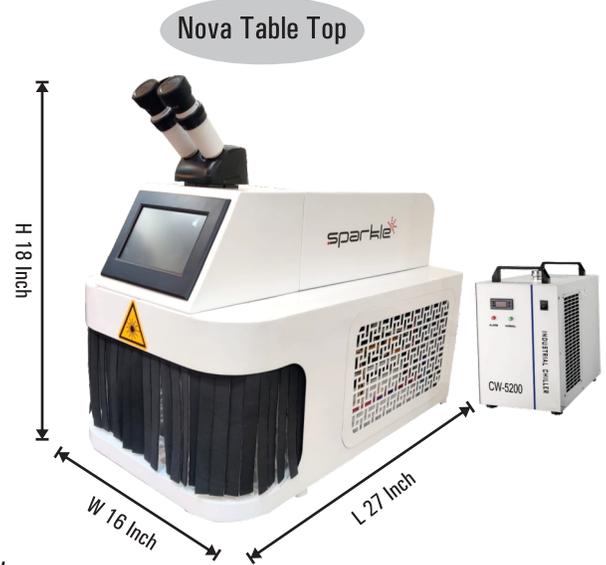


Gold, Silver, Rose Gold, Copper, Platinum, Titanium, Argentine, Nickel, Aluminium, Stainless Steel and Other

## Jewellery Laser Spot Welding / Soldering Machine

### SPECIFICATION

Model No.	: SLW-100 / SLW-200
Output Power	: 100 W / 200 W based on requirement
Single-pulse energy	: 0-150 J
Machine Design Type	: Desktop / Vertical
Laser Source	: ND:YAG
Laser Wavelength	: 1064 nm
Pump lamp	: Pulsed Xenon Lamp
Pulse Width	: 0.1-20 ms adjustable
Pulse Repeated Frequency	: 1 ~ 50 Hz adjustable
Welding spot diameter	: 0.2-1.3 mm adjustable
Observing System	: Microscope / CCD - based on requirement
Cooling System	: Water chiller
Power Supply	: Single Phase AC 220V ± 10%, 50Hz / 60HZ, 4 KW
Running Environment	: Temperature 5°C-28°C Humidity 5%-70%



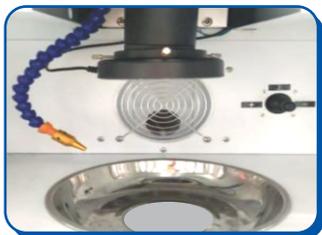
Approx Weight 60 Kg.

#### Customer Scope :-

AC Room would be recommended (25-30 degree)  
7 KVA Online UPS System or 7 KVA Servo stabilizer



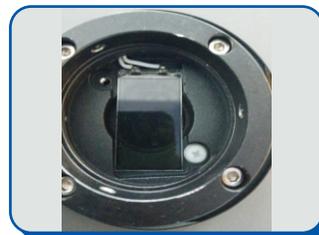
### Features



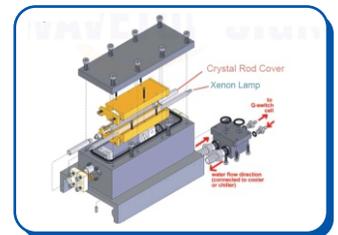
Standard Workspace



Customize Camera Integration



In built Back Reflection beam Protection lens.



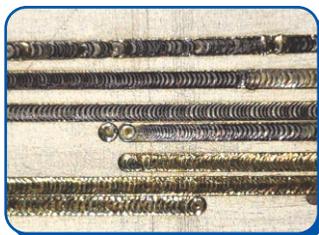
High Quality Cavity and crystal rod for sharp output



In Built Auto air System connection



High Resolution Touch Display screen



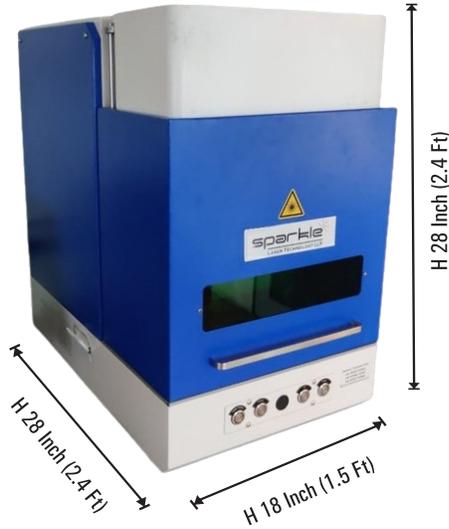
Beam Quality



Self Developed power Supply

## Jewellery Gold & Silver Laser Cutting Machine

Ozone Cut



Approx Weight 200 Kg.



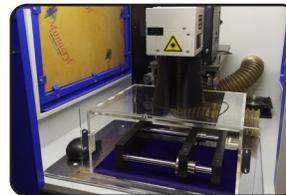
Approx Weight 70 Kg.

### SPECIFICATION

Laser Type	: KS-Optimus
Average Output Power	: 50 / 60 / 80 / 100 W
Wavelength	: 1064 nm
Output Power Stability	: 5%
Power Adjusting Range	: 1 ~ 100 %
Resolution Frequency	: 50/200 KHz (Optional)
Output Beam Diameter (1/e2)	: 6-9 mm
Max. Linear Speed	: Max 12000 mm/s
Cutting Thickness	: 0.01 ~ 2.0 mm (Material Depended)
Work Area	: 110mm x110 mm
Min. Character Height	: 0.2 mm

#### Customer Scope :-

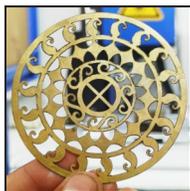
AC Room would be recommended (25-30 degree)  
1 KVA Online UPS System or 1 KVA Servo stabilizer



Acrylic Box For Loss Collect

Gold / Silver Fixture

### APPLICATIONS



Gold, Silver, Rose Gold, Copper, Platinum, Titanium, Argentine, Nickel, Aluminium, Stainless Steel and Other

## 3D Jewellery Die Laser Engraving / Cutting Machine

Optimus-3D / Cutting

Plane

Cylinder

Cone

Ball

Any

H 48 Inch (4.0 Ft)

W 27 Inch (2.3 Ft)

L 31 Inch (2.7 Ft)

Approx Weight 200 Kg.

3D Sample

### SPECIFICATION

Model	: KS-SP3D
Output Power	: 50W / 80W / 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/110/130/150 (optional)
Laser Power	: 20W/30W/50W (optional)
Laser Wavelength	: 1064nm
Maximum Power	: < =500W / 800W
Working environment	: temperature 10-25°C/humidity5-50%

#### Customer Scope :-

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

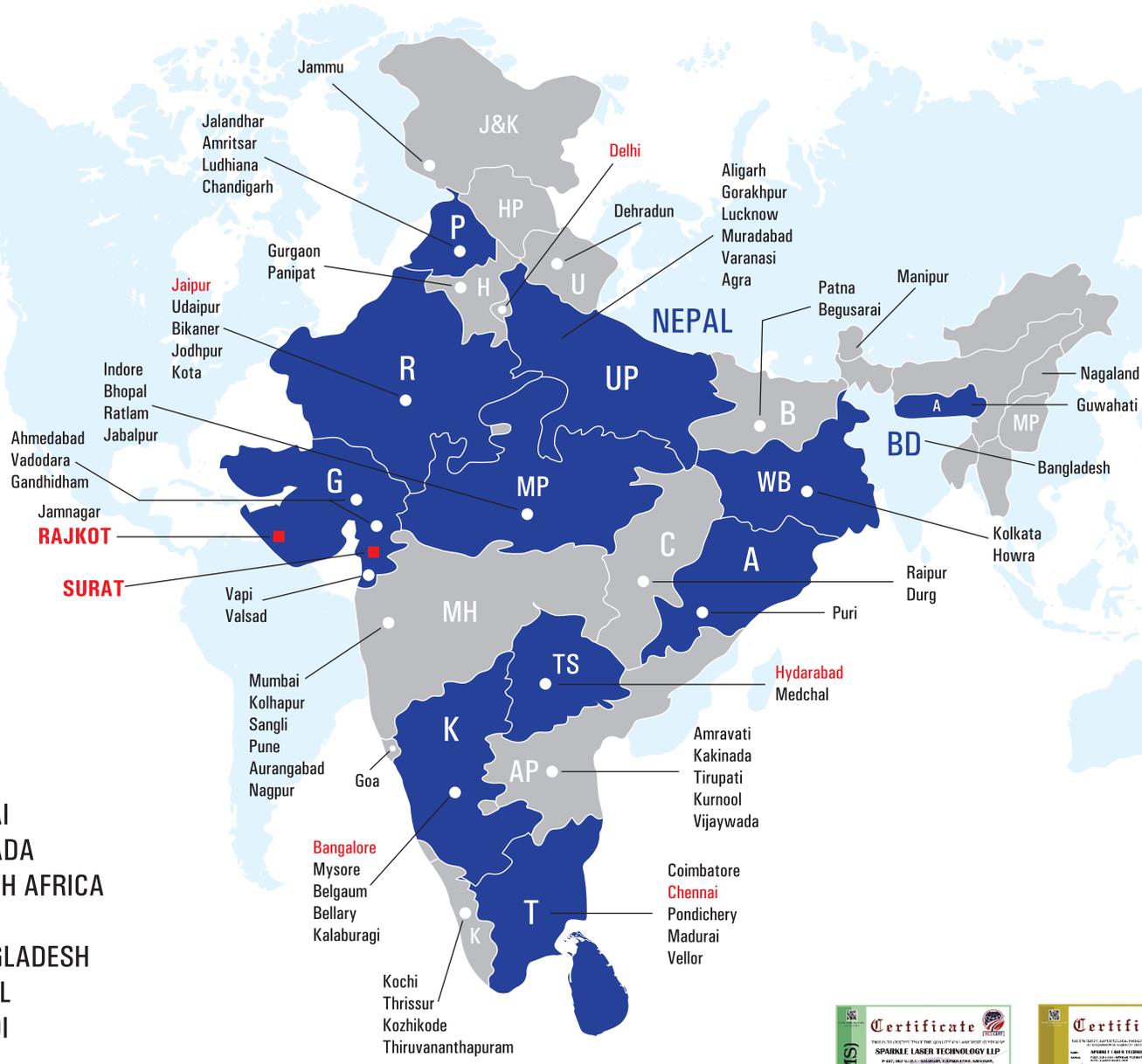
### APPLICATIONS



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

Our Satisfied Customers





- USA
- DUBAI
- CANADA
- SOUTH AFRICA
- UK
- BANGLADESH
- NEPAL
- SOUDI



An ISO 9001:2015

**Head Office & Factory Unit**



Plot No. 903 to 908 / Building No. 4,5,6,  
New GIDC Katargam, Near Gajera School, Char Rasta,  
Fulpada, Katargam, Surat-395004, Gujarat, India

**Branch Office**

B-303, Prishram Plaza,  
Mangla Main Road, near  
Lodhavad Chowk, Rajkot-360002

**Inquiry Contact us**

+91-9099931599

web : www.sparklelaser.com

E-mail : contact@sparklelaser.com



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