



INDIAN MANUFACTURER OF ALL TYPE LASER MACHINES



4500+ SUCCESSFULL INSTALLATION ALL OVER INDIA, USA, NEPAL, CANADA, AUSTRALIA , UAE



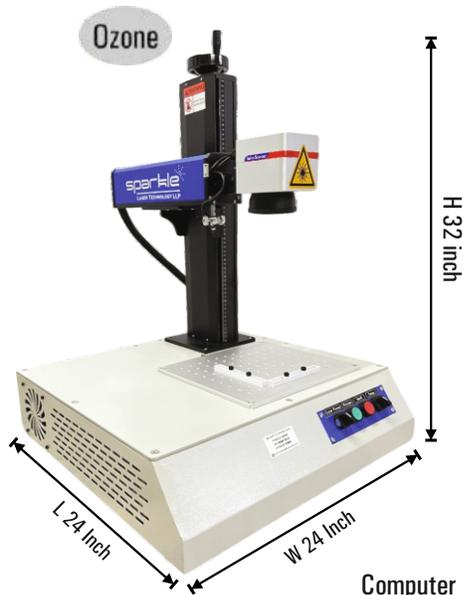
### Product Range

- Fiber Laser Marking / Engraving Machine for All Metal
- Fiber Laser Welding Machine/ Laser Cleaning 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
- UV Laser Marking Machine / Customized Automations



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

## Compact Size Laser Marking / Engraving Machine



Approx Weight 40 kg.



Approx Weight 45 kg.

Computer system & Power Protection  
(Customer scope)

### SPECIFICATION

Laser Type	: Pulsed Fiber Laser
Average Output Power	: 20 W (Optional 30/50/60/100 W)
Wavelength	: 1064 nm
Output Power Stability (Typical)	: 5%
Power Adjusting Range	: 1 ~ 100 %
Resolution Frequency	: 20-500 KHz (Optional)
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)
Work Area	: 110mm X 110mm (150/200/300 Optional)
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



Image Marking

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

- **Low Cost In Use**  
No Wearing Part, Free of Maintenance.
- **High Speed**  
Imported Laser Scanning System Makes the Marking Speed
- **High Precision**  
Re-Position Precision is 0.002mm
- **Energy Saving**  
The Efficiency of Optic-Electrical Converting is up to 70%
- **Easy Operating**  
Easy Operation, Fast Training, Trouble Free.



## Laser Marking / Engraving Machine



Computer system & Power Protection  
(Customer scope)

### 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 100 / 175 / 220 / 300)

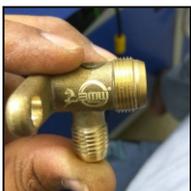


Roller Rotary Customized Base  
(Optional)



Rotary Attachment (Optional)  
80 / 100 mm

### APPLICATIONS



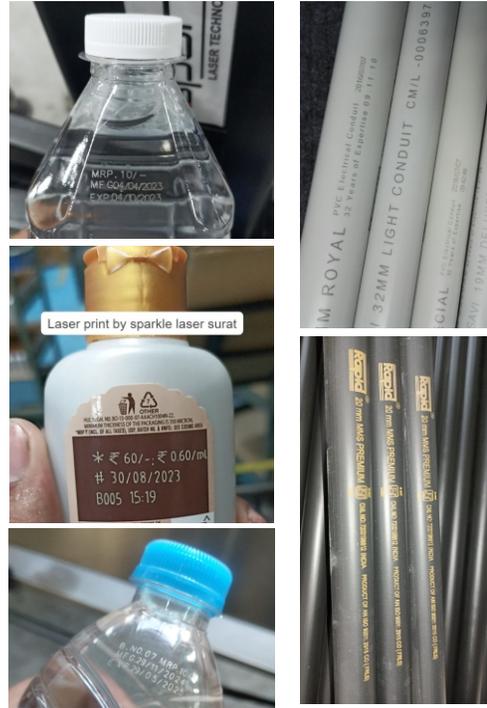
Aluminum, Stainless Steel, Brass, Titanium, Plastic, Alloy Steel, Bronze, Copper, Platinum and so on

## High Speed Online Fly Laser Marking Machine With HMI Touch Display



Approx  
Weight 95 Kg.

### Fly Sample



For Water Bottle Or Conveyor Belt Moving Items Continue Production  
Line Laser Printing & Marking Machine Fiber / UV / Co2

### Fiber / UV / Co2 Laser Sample



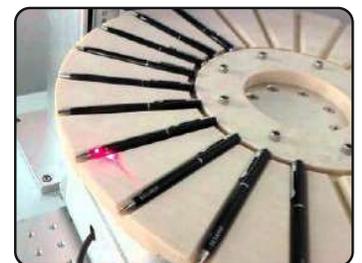
Operator Friendly Machine Design



Fiber Laser Cutting Sample



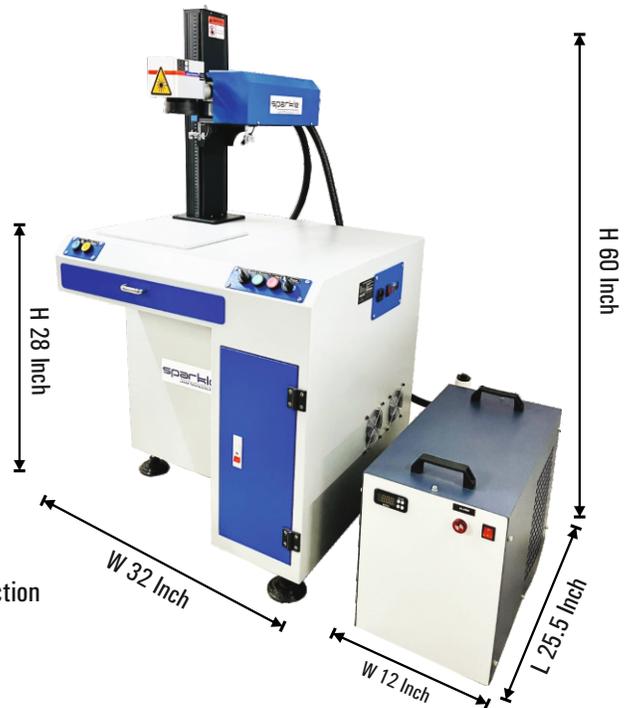
Indexing Table



Round Table Automation

Application Used : Water Bottel Plant, HDPE Pipe, UPVC Pipe, Juice Bottel, Packaging Unit

## UV Laser Marking / Engraving Machine



Computer system & Power Protection  
(Customer scope)

Approx  
Weight 78 Kg.

### SPECIFICATION

Laser Type	: UV Laser
Laser Average Output Power	: 3W / 5w / 10W
Laser Life	: ~ 30,000 Hours
Wavelength	: 355 nm
Central Wavelength Accuracy	: ± 3 nm
Average Power Stability	: < 3 % over 24 hours
Pulse to Pulse Stability	: < 3% RMS
Power Adjusting Range	: 1-100 %
Pulse Repetition Rate	: 20-200 kHz
Pulse Duration (ns)	: < 15 ns @ 30 kHz
Beam Diameter	: 0.7 mm
Beam Roundness	: > 90 %
Polarization Ratio	: > 100:1
Polarization	: Vertical
Scanner	: 12,000 mm/sec
Scanner Type	: Double Silica Coated
Scale Required	: No
Min. Line Width	: 0.04 mm
Marking Area	: 150 mm x 150 mm Standard (Optional Other Size)
Min. Character Height	: 0.25 mm
Repeated Accuracy	: ± 0.001 mm
Max. Power Consumption	: 340 Watt
Warranty	: 1 Year Warranty

### ELECTRICAL

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



MRP & Date Marking



Text Marking

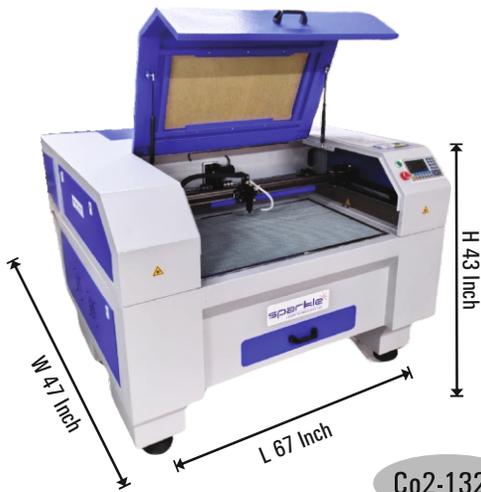
### APPLICATIONS



Plastic, Glass, ABS Material, PCB, Rubber, Non Metal Material



## Co2 Laser Cutting & Engraving Machine



Co2-9060

Co2-1390

**:: Optional Size ::**

900x600, 1300x900, 1300x2500, 1600x1000  
 1400 X 1000, 1800 X 1000  
 Single Head & Double Head  
 (All Dimensions in mm)  
 1325 model only blades come  
 (honeycomb additional cost based)



Co2-1325



(Only Cutting Blades Table)

With :



Honey Comb



Blower  
550 W / 750 W (Optional)



Chiller

### SPECIFICATION

Output Power	: 80W, 100W, 130W, 150W
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)  
 5.5 KVA Online UPS System or 5.5 KVA Servo stabilizer  
 With Isolation Transformer

Types Of Work Table	: Cutting Blades Table ( Honeycomb 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 Format	: DST, PLT, BMP, DXF
Air Cooling System	: 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

## High Speed Co2 Laser Marking / Engraving Machine (Non Metal)



Pluto Mega

10 Times Faster &  
7 Times More Life  
Than Glass Tube  
Axis Base Machine

Computer system & Power Protection  
(Customer scope)

Approx  
Weight 77 Kg.



Approx  
Weight 78 Kg.

### SPECIFICATION

Output Power	: 35W / 50W / 60W
Frequency & Duty Cycle	: 0 ~ 25KHZ, 0 ~ 100%DC
Beam Diameter	: 1.8±0.2mm
Max Engraving Speed	: 1-60000 mm / min
Up/Down	: 600 mm
Computer System	: Required (Customer Scope)
Cooling	: Air Cooling (Remove Air Compressor)
Operating Temperature	: 0-45°C
Supply Voltage	: Ac110-220V ± 10%, 50-60Hz
Power Consumption	: < 575
Life	: < 20000 Hour
Marking Area	: 140/175/200/300mm

### YOU CAN ENGRAVE THESE MATERIALS

● Wood	● Plywood	● MDF	● Leather
● Acrylic	● Slate Coaster	● Tumbler	● Glass
● Velvet	● Ceramics	● Paper	● PVC

### APPLICATIONS



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

## 3 in 1 Fiber Laser Welding, Cutting, Rust Cleaning Machine



Model: CWFL-2000ANW12

### SPECIFICATION

Model	: SP1000W / SP1500W / SP2000W / SP3000W
Laser Source	: 1KW / 1.5KW / 2KW / 3KW
Rated Output	: 1000W / 1500W / 2000W / 3000W
Max Output Power	: 1070 (±10nm)
Cleaning Width	: 0-150 mm
Voltage	: 220V/380V ±20V
Indicators Light	: Red Light
Cooling Method	: Water Cooling
Max Pressure	: 1.0 Mpa
Total Power	: 5120W/5580W, 7120W/7580W, 8720W
Working Model	: Continuous / Modulation
Working Environment	: Flat, No Vibration and Shock
Working Humidity(%)	: < 70
Operating Temperature(°c)	: 10 - 40 °C
Weight	: 120 kg

### 3 In 1 Laser Gun



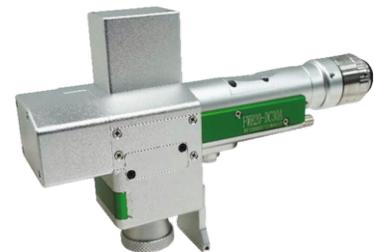
Laser Welding Gun

Laser Cleaning Gun

Laser Cutting Gun



Welding, Cutting & Cleaning



Optional Only Laser Cleaning Gun Head 1 Axis / 2 Axis

### APPLICATIONS

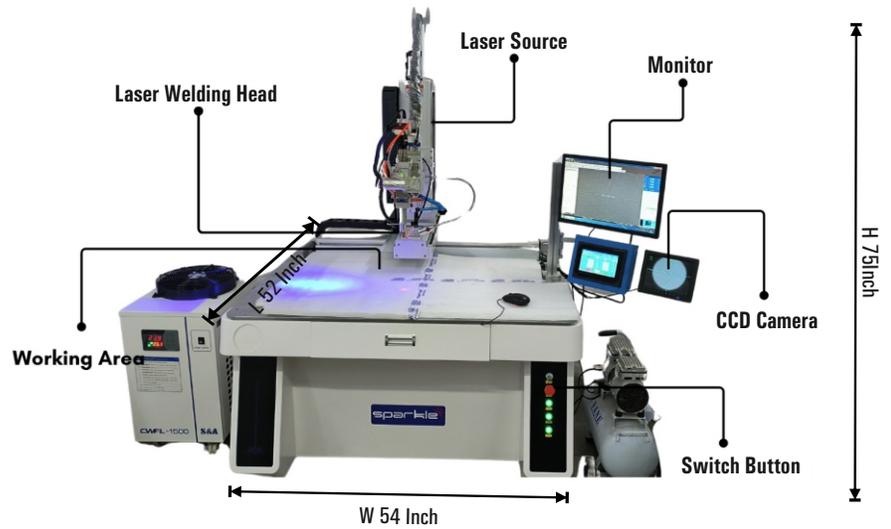


Stainless Steel, Carbon Steel, Galvanized Sheet, MS.

## Laser Welding Machine For Metals



Yag Laser Welding



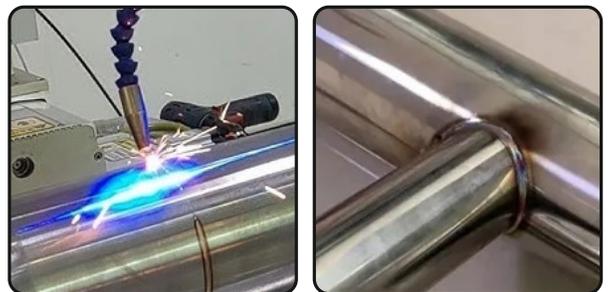
Platform Fiber Laser Welding Machine Multi Axis (for weld all metals)  
1000w / 1500w / 2000w

### SPECIFICATION

Model No.	: SLW-200 / SLW-300 / SLW-400
Output Power	: 200 W / 300 W / 400 W - Based on Requirement
Single-pulse energy	: 0-100 / 150 / 200 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 ± 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)  
5 KVA Online UPS System or 5 KVA Servo stabilizer  
With Isolation Transformer



### APPLICATIONS



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

## 400W Laser Spot Welding Machine



- High Quality Beam And Good Power Machine
- For Welding Product Fixture And Jig Is Customer Scope

### TECHNICAL SPECIFICATION

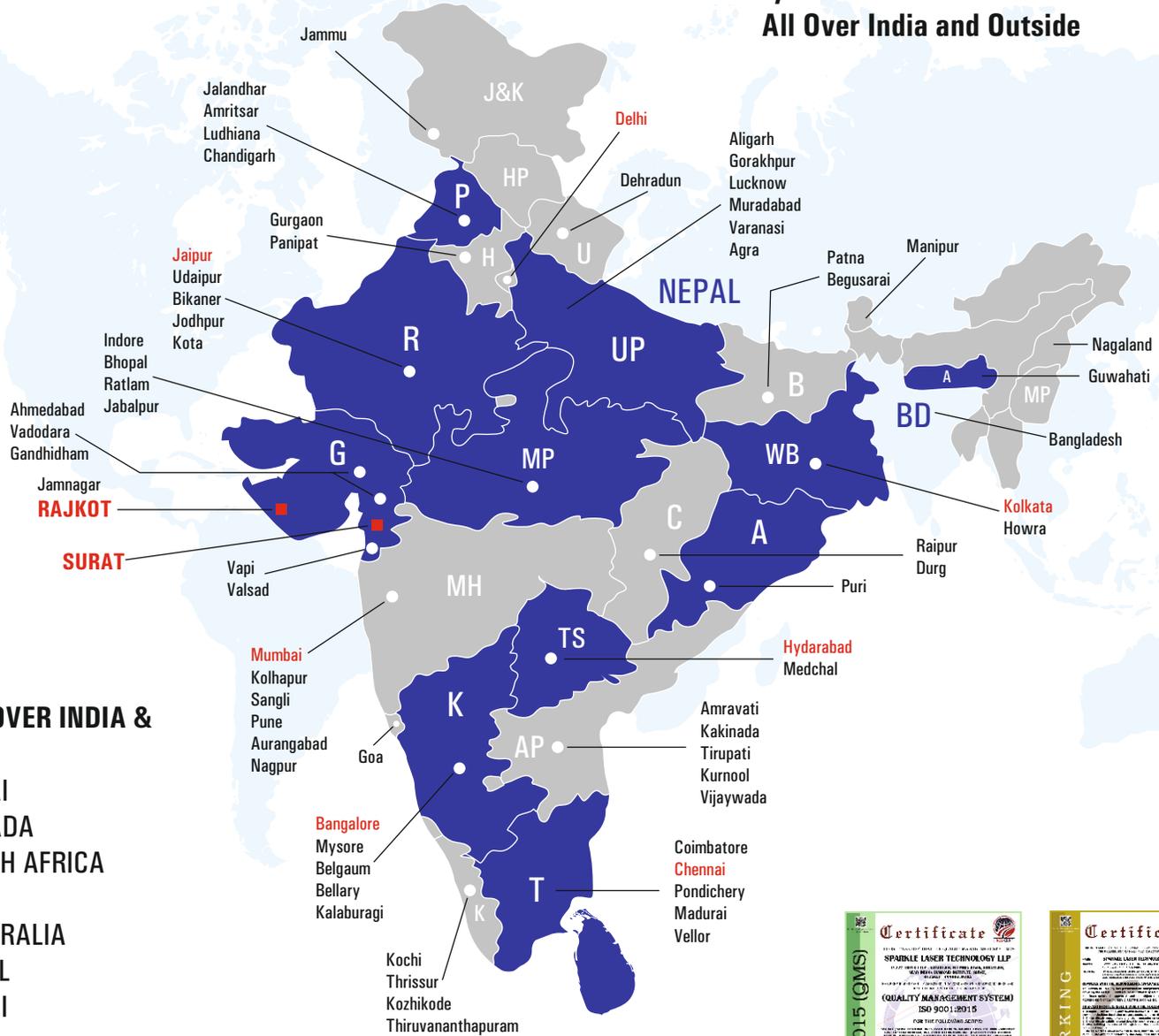
Model No.	: SPIND-YL400W
Output Power	: 400 W-High
Single-Pulse Energy	: 1-180J
Machine Design Type	: Desktop
Laser Source	: ND-YAG
Laser Wavelength	: 1064 nm
Pump Lamp	: Sparkle Pulsed Xenon Lamp
Pulse Width	: 0.1-15 ms Adjustable
Pulse Repeated Frequency	: 1~20 Hz Adjustable
Observing System	: Camera Vision System
Cooling System	: Industrial Heavy Capacity Chiller (up to 1 ton)
Power Supply	: 3 Phase AC 308V ±10%, 50Hz / 60Hz, 15KVA
Running Environment	: Temperature 5°C-28°C Humidity 5%-70%
Machine Dimensions in Inch	: L 2.1 Feet   H 4.5 Feet   W 2.9 Feet with Chiller
Welding Spot Diameter	: 0.1-1.5 mm Adjustable



### FEATURES

- Temperature Control - Accuracy of  $\pm 0.1^{\circ}\text{C}$  to  $\pm 0.2^{\circ}\text{C}$ . Automatically Adjust the Water Temperature The Heat load of the Equipment under running Condition, Reducing the instant Flow Rate.
- Easy-to-use, Remotely Controlled System: Monitors the Machine via PC, (Temperature setting, Function and Parameter setting, Read Machine Working State and fault information) to adapt to Specific Application Requirements.
- Freeze Protection - Automatically Adjusts the Temperature to Prevent Freezing.
- Alarms - Temperature And Pressure Alarms along with flow Display Function And Flow Alarm Value.
- Pump Failure and Low Flow Rate is Prevented with the Flow Meter Automatically, Stainless Steel Coiled Tubular Evaporator with Exterior Coated by an Electrostatic Powder Coating.

Successfully installed Machines in below Cities  
All Over India and Outside



ALL OVER INDIA &

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



An ISO 9001:2015

Head Office & Factory Unit

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