

FOUR-P[®]
-Fancy

Four Process & Laser Bruting



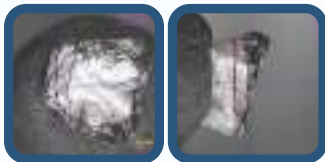

DHARMAJ[®]
TECHNOLOGIES

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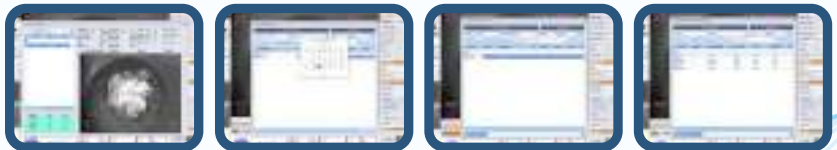
Manufacturing Laser & Automation Solutions



Customized Shape*



Get .BMP format photo & access to any Computer network.



Get Diamond and related process information applied on it.

*This facility is optional.

For Custom Shape software available for **Table & Girdle Bruting***
(Rose cut, Cushion, Triangle etc...)

- All parts of Machine easily arranged for best service.
- Though smallest **FOUR-P**[®] is **Robust** and **Vibration free**.
- Hermetically sealed Laser rail to **Protect optics & Diode from dust** and thus enhances their life.
- Diode Module available with **“Northrop Grumman”**.
- **Smart cutting Parameters**
 - ▶ Process specific **(Table, Crown, Girdle, Pavillion)** Auto Power & Frequency facility.
 - ▶ According to Diameter Auto cutting file & auto margin facility.
- For Direct Data transfer **QR Code Scan** option available.
- **Password / Hasp Lock** facility available for secure Stone setting Data & Parameters
- Live Photo of Set stone.
- Backup of Minimum 10 Days.
- Can easily store cutting stone data with image and parameter according to Operator and Party wise.
- Get data in **CSV format** with Automatic and Manual Excel Export option.
- Easy and **Highly accurate Calibration** process for longer duration.
- In Machine marking facility available for **Girdle & Table**.
- **Servo angle & Rotary motor** used for Precise Positioning.
- For Fancy shape Accuracy **“High Precision Positioning”** Servo Motor used.
- **Axis movement to Shape Cutting**
 - ▶ No need for extra **Optical part (Galvo)**.
 - ▶ Watt variation due to **“Optical Laser Movement” (Galvo)** is solved (Benefit in breaking).

Laser & Machine Specification

Laser	DPSS (ND:YAG Diode Pumped)
Diode Module	Northrop Grumman RBA34-1C2 or Premium Diode
Central Emission Wavelength	1064nm
Transverse Mode	TEM ₀₀
Q-Switched Output Power	24 Watt @ 10 Khz
Pulse to Pulse Stability	(% rms)< 1.6 % @ 6 Khz
Beam Polarization	Linear
Beam Pointing Stability	15μ Rad
Pulse Repetition Rate	1 to 20 Khz
Laser Class	IV

CNC System

Axis Travel	130*130*70mm
Resolution	4000 Steps/mm
Accuracy	2 Micron
Repeatability	5 Micron/25mm Bidirectional
Straightness & Flatness of Travel	5 Micron/25mm
Drive	AC Servo

PC Specification

Intel 4th Generation, 17" LED Screen, I3 Processor OR Higher Configuration

Electrical

Power Consumption 1 Ø, 230 Volts AC, 12 Amps

Temperature

Operating Temperature 18 to 30°C

Chiller

Cooling Capacity 1200 Watt

Power Consumption 1 Ø, 230 Volts, 8 Amps

Dimension

Length * Width * Height 36" x 36" x 60"

Weight ~400kg

Contact us for Sample Cutting and Further Details



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ડોહમજ ટેકનોલોજીઝ માં ઇન્નોવેશન સાથેની વિગતો ધર્મજ ટેકનોલોજીઝ અને એસોસિયેટ કંપની સાથે જોડાયેલ છે.

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