

FOUR-P[®]

Four Process & Laser Bruting

Models of Series DEL-14

- CNC Integrated Laser Diamond Bruting Machine
- CNC Integrated Laser Diamond Four Processing Machine

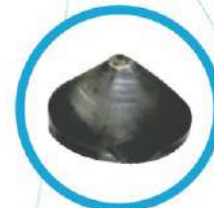


Manufacturing Laser & Automation Solutions





Four Process & Laser Bruting



Key Features

- Having **FOUR-P**® save **space** up to 50%
- Working with **FOUR-P**® save up to 50% in **electricity bill**
- Ergonomically designed structure for **Hassle free 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.
- Available with **“Northrop Grumman or Premium”** Diode modules

Key Features : **FOUR-P[®]**

- Calibration Free Software
- **Smart cutting Parameters files** : (Auto Power, Angle Frequency)
 - ▶ Rough type specific
 - ▶ Process specific (**Table, Crown, Girdle, Pavillion**)
- **Smart Margin files**
 - ▶ Diameter wise
 - ▶ Rough type specific (**PALCHA / HEIGHT STONES**)
- Servo motor used in fixture for Precise Positioning

Key Features : Bruting Machine

- Special Software Designed for **Girdle** Diamond.
- Extra Facet Cutting Facility.
- Direct Data Transfer.
- Automatic Power Adjustment according to Diameter.

Upgraded Software Features **FOUR-P[®]**

- Live Photo for current set stone.
- **Live center position** for maintaining accuracy.
- **Hardware lock** in all functions for preventing your current setting data.
- Easy and **Highly accurate Calibration** process for better quality of **FOUR-P[®]** shape for longer duration.
- New Software can select **Auto smart file** and **Bottom angle** according to total height of a stone.
- All kind of **Data importing** Facility in one software (**QR Code / BarCode, LAN, Eagleye, etc.**).
- **Auto camera spot** checking function.
- **Fastest ever FOUR-P[®] software** for Quality Production.
- **Percentage wise** power increase/decrease facility in all process.
- **Diameter wise** smart margin facility.
- 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.
- Get Double Side Table Sawing Photo (Using Enter Key).
- Backup Minimum of 10 Days.

Additional Features

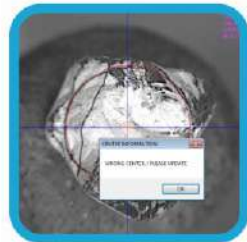
Set Operator Login.



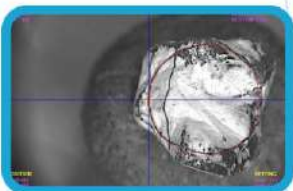
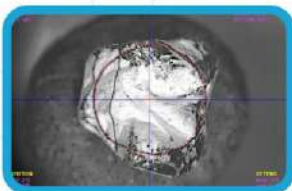
- Calibration Done With **Date & Time Record with Time.**



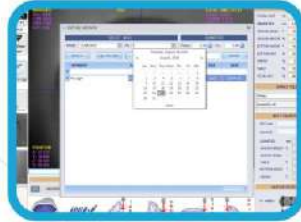
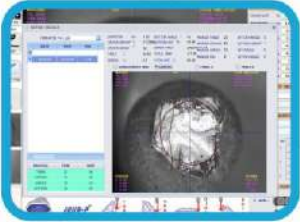
- If **Wrong Center** than No Any Further Process.



- Get Image in **.BMP Format** and can be Accessible from Any Computer in network.



- Get all Diamond History & Diamond Process History Date wise.



Laser Specification

Laser
Diode Module

Central Emission Wavelength
Transverse Mode
Q-Switched Output Power
Pulse to Pulse Stability
Beam Polarization
Beam Pointing Stability
Pulse Repetition Rate
Laser Class

DPSS (ND:YAG Diode Pumped)
Northrop Grumman RABAT24-1C2 (Silent Light) or
Northrop Grumman RBA34-1C2 (RB Plus) or Premium Diode
or with Fiber Laser
1064nm
TEM₀₀
24 Watt @ 10 KHz
(% rms) < 1.6 % @ 6 KHz
Linear
15μ Rad
1 to 20 KHz
IV

CNC System

Axis Travel
Resolution
Accuracy
Repeatability
Straightness & Flatness of Travel
Drive

130*130*70mm
4000 Steps/mm
2 Micron
5 Micron/25mm Bidirectional
5 Micron/25m
AC Servo

PC Specification

Intel 3rd Generation, 17" LED Screen
Dual Core 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

Our other Products

triumph
Non-stop

harit
Non Stop

FOUR-P™
Non Stop

VICTORY

pragathi

White Pigeon

Nano
Fiber 4

harit

triumph

Eagle Eye



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