



FOUR-P™

Four Process & Laser Bruting

Manufacturing Laser & Automation Solutions



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Key Features : Laser Bruting

- Having “PRAGALBH” save space up to 50%
- Working with “PRAGALBH” save up to 50% in electricity bill
- Ergonomically designed structure for Hassle free service
- Though smallest “PRAGALBH” is Robust and Vibration free
- Hermetically sealed Laser rail to Protect optics & Diode from dust and thus enhances their life.
- Available with “Northrop Grumman / Premium” Diode modules

Key Features : Four-P™

- Calibration Free Software
- Specially formatted 3 process software for “FADACHI” type rough
- **Smart cutting Parameters files** : (Auto Power, Angle Frequency)
 - ▶ Rough type specific (PALCHA / HEIGHT STONES)
 - ▶ Process specific (Table, Crown, Girdle, Pavillion)
- **Smart Margin files**
 - ▶ Rough type specific (PALCHA / HEIGHT STONES)
 - ▶ Diameter wise
- Servo motor used in fixture for Precise Positioning

Key Features : Laser Bruting

- Well organized and user friendly software
- Air, Light operates automatically by software
- **“Skin Banding”** facility to prevent stones from opening reflections
 - ▶ 1 Side, 2 Side, 4 Side, Multi Side
 - ▶ Z-Axis guided
 - ▶ Multi Layer Skin Banding
- Low weight loss, Negligible, breakage with quality production
- Save & Resume file for urgent cutting
- Re-instant facility to resume last stone on occasion of power failure
- USB camera for better vision
- Multi dye, Belt drive fixture with 360° Rotation
- Manual modification facility in **“Stroke & Focal”** during cutting

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
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
Dual Core Processor OR Higher Configuration
17" LED Screen

Electrical

Machine Power Consumption

1 Ø, 230 Volts AC, 12 Amps

Temperature

Operating Temperature

18 to 30°C

Chiller

Cooling Capacity
Power Consumption

1200 Watt
1 Ø, 230 Volts, 8 Amps

Dimension

Length * Width * Height
Weight

36" x 36" x 60"
~400kg



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