

Ratn Kanti


DHARMAJ[®]
TECHNOLOGIES
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Laser Faceting Machine



Manufacturing Laser & Automation Solutions

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Features are as follows

- Available in Green Laser and IR Laser.
- Symmetrical / Asymmetrical / Facet Cutting
- Round as well as Fancy Shape features available.
- Fine and Precision facet cutting.
- Size from 0.5 cent polish to any big size Round and Fancy.
- Single Sticking requires for all process.
- 8 or 16 facet each side available
- Facet cutting parameters can be import through .obj file from Sarine 8.0 Advisor and Helium Carbon
- Least maintenance for XYZ motion System.
- Fastest facet cutting ever in Laser System.
- Negligible damage ratio in Diamond.
- Robust and Vibration free body structure.
- Optomech combo laser cutting technology specially developed for facet cutting.



Machine Specification

Power Consumption	1 Ø, 230 Volts AC, 12 Amps (HP)
Operating Temperature	18 to 30°C
Dimension	Len : 43" * Wdth : 28" * Hgt : 67.5", Wgt : ~700kg

Laser Specification

Laser	DPSS (ND : YAG) Diode Pumped
Diode Module	Indigenous made Green Laser Head or IR Laser
Central Emission Wavelength	532nm / 1064nm
Transverse Mode	TEM ₀₀
Q-Switched Output Power	Up to 19 Watt @ 9Khz
Pulse to Pulse Stability	(% rms) < 0.86% @ 9Khz
Beam Polarization	Linear
Beam Pointing Stability	15 µ Rad
Pulse Repetition Rate	1 - 20Khz
Laser Class	IV

Available with


IR Laser 20W

Green Laser 20W

Production information / Round Shape

Bottom 16 & Crown 8	Production / 24hrs~
0.05 to 0.25 Ct	120 to 140
0.26 to 0.50 Ct	65 to 80
0.51 to 1Ct	25 to 35
1.1 to 1.50 Ct	20 to 28
1.51 to 2 Ct	15 to 18
2 to 3 Ct	10 to 14
3 to 5 Ct	8 to 12

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