

LAZER DUO



The Next Revolution in Laser Processing

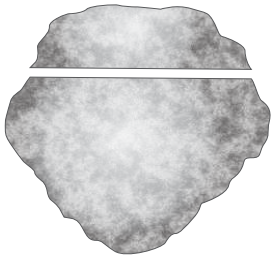
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LAZER DUO

HIGHER PRODUCTIVITY IN COMPACT SIZE

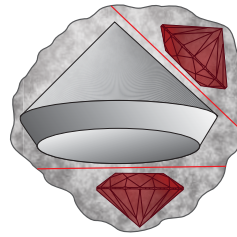
Saw • 4P • 5P • Block • Everything



Sawing



4 P



5 P



Blocking

A Unique Technology Where Versatility Meets The High Standard Productivity.

It's time to pass all the traditional hurdles to gain maximum productivity through Lazer DUO. Introducing industry's first ever fully independent dual workstations machine design laser system with the versatility of Sawing, 4P, 5P & Blocking and much more.



A Revolutionary Dual Workstations Machine Design.

Time to say goodbye to all those space consuming machines. With its dual workstations compact design Lazer DUO is designed to give you maximum productivity.

Accurately Designed for Mass Production.

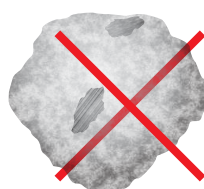
Lazer DUO is tuned for the maximum production. When a system that performs everything, the velocity of production gets a boost to the best. And it does it with an astounding accuracy; cut-to-cut, diamond-to-diamond.



Minimum Breakage and Minimum Weight Loss.

The team effort of Lazer DUO and Silent Light Diode generates a high standard beam profile and best beam stability resulting in minimum breakage and weight loss.

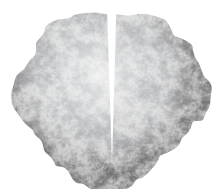
Minimum Breakage



Weight Loss



Other IR Lasers



Lazer DUO

STONE SIZE (in ct)	Production/24 hours (twin side sawing)	Breakage Ratio	Weight Loss
0.10 - 0.25	400 ct	<1.00%	<2.50%
0.26 - 0.50	440 ct	<1.00%	<2.25%
0.51 - 1.00	520 ct	<1.00%	<2.00%

* may vary as per diamond type and/or cutting geometry.

A Unique Combination Of Customization, Differentiation & Innovation: Mix & Match.

Our special feature of customization offering you the option to configure your Lazer DU0.
Possible options are mentioned here.

- ☒ LS-9 & LS-9e
- ☒ LS-9 & LS-9
- ☒ LS-9e & LS-9e

- ☒ Sawing & 4P
- ☒ Sawing & Blocking
- ☒ Sawing & Sawing
- ☒ 4P & 4P
- ☒ Blocking & 4P
- ☒ Blocking & Blocking

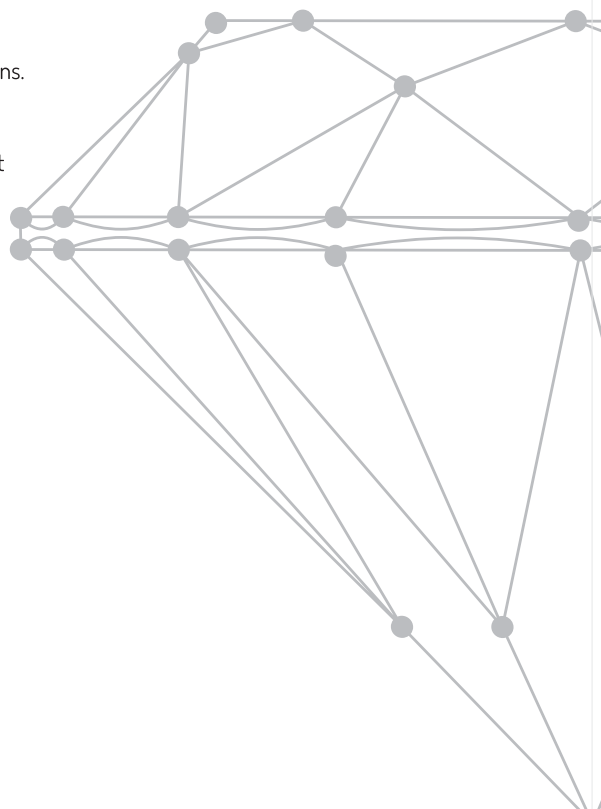
Similarly the Lazer DU0 provides you a freedom to select various operations on each work station of the machine. The various options for a process selection are mentioned here.

SPECIAL FEATURES

- Silent Light Diode module** (Northrop Grumman-USA) which is specially designed to generate superior quality laser beam and stability throughout its working range.
- An effective **dust proof enclosure** ensures long lasting life of optical components.
- A **Skin Banding** feature provides safety against the damages which occurs due to internal reflections.
- Automatic **360° fixture** is provided for twin side sawing and much more.
- Requires less operator intervention in operation:** based on the size of the diamond intelligent software automatically sets optimized laser parameters and other cutting parameters.
- Highly optimized ergonomics** minimizes operator fatigue and corresponding errors.
- A long lasting and highly **precise X-Y-Z CNC stages** for accurate cutting performance.
- Specially **developed granite base** minimizes vibration.
- Single plate optical rail design** to achieve best optical property and stability of the laser beam.

SPECIFICATIONS

Dimension	:	115 cm × 153 cm × 178 cm (L × B × H)
Laser	:	Nd:YAG @1064nm TEM ₀₀ - Diode Pumped Solid State
Output Power	:	26 watts @ 10 kHz
Operating Voltage	:	Single phase, 230 Volts AC, 1.8 kW (Per Each Station)
Axis Travel	:	130 mm x 130 mm x 70 mm (X, Y, Z)





 PROUDLY INVENTED & MADE IN INDIA

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