

LAZER SUPER-9 E



The Supremo of Laser Processing

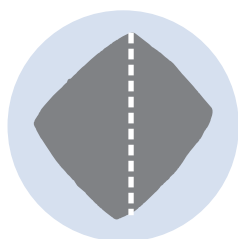
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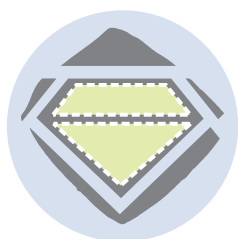
LAZER SUPER-9E

STANDS FOR POWER, PERFORMANCE, PRODUCTIVITY

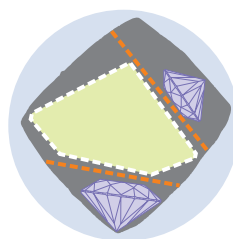
Saw • 4P • 5P • Block • All in one



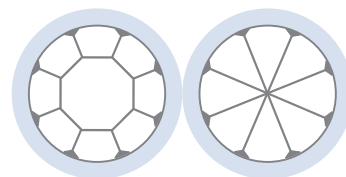
Saw



4P



5P



Block

Where Incredible Versatility Unites with Incredible Performance.

It's time to break down those conventional barriers to efficiency. Introducing diamond industry's first laser system with the versatility of Sawing, 4P, 5P and Blocking, the Lazer Super – 9E.

Precisely Engineered for the Maximum Production.

LS-9E 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.



Other IR Lasers



LS-9E

Minimum Breakage. Minimum Weight-loss.

The synergy between LS-9E and the Silent Light Module provides an excellent beam profile & stability resulting in minimum breakage & weight-loss.

STONE SIZE (in ct.)	Stone Size (in ct.)	Lazer Super-9E
Production / 24 hrs (Twin Side Sawing)	0.10 - 0.25	200 ct.
	0.26 - 0.50	220 ct.
	0.51 - 1.00	260 ct.
Breakage Ratio %	< 0.25	< 1.00 %
	> 0.50	< 1.00 %
	> 0.50	< 1.00 %
Weight-loss %	< 0.25	< 2.50 %
	> 0.50	< 2.25 %
	> 0.50	< 2.00 %

Synergy of a high-grade cooling system and a high standard power supply unit

To achieve an optimum performance LS-9E is tuned with an adept cooling system and a proficient power supply unit which are having high reliability and lower failure rate.



A High Grade Cooling System: (TERMOTEK-Germany)

- LS-9E is equipped with a high-grade cooling system, which is having an exceptional ability to maintain accurate temperature within $\pm 0.10^\circ\text{C}$ of the set point. This minimizes laser power fluctuation during cutting operation.
- The cooling system takes care of the best possible thermal management of the Silent Light diode. This enables an excellent cutting performance even for the big size stones.

A High Standard Power Supply Unit: (AMETEK/SORENSEN-USA)

- We have chosen a rock solid performer to accompany the Silent Light diode pump module. The power supply, which energizes diode module, is sourced from USA. Together with Northrop Grumman's Silent Light diode module, it gives ultimate stability to the laser beam output.
- The highly stable laser beam is delivering reliability to the laser processing operation. LS-9E is designed with the highly demanding process needs for bigger size, high value diamonds.



SPECIAL FEATURES

- **Silent Light diode module** (Northrop Grumman-USA) produces unmatched beam quality and stability throughout its working range.
- **Dust protective enclosure** gives optimum life to optical components.
- **Skin Banding** feature prevents damages due to the internal laser reflections.
- **Automatic 360° fixture** for twin side sawing.
- **Less Man-Machine Interactions**; intelligent software automatically sets optimized laser parameters based on the size of a diamond.
- **User friendly operating software** saves time and reduces operator mistakes.
- Highly accurate and **long life X-Y-Z CNC stages** for accurate cutting performance.
- Impeccable machine design and **vibration free MS frame structure** provides better stability.



 PROUDLY INVENTED & MADE IN INDIA

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*Available as an optional accessory at the additional cost.