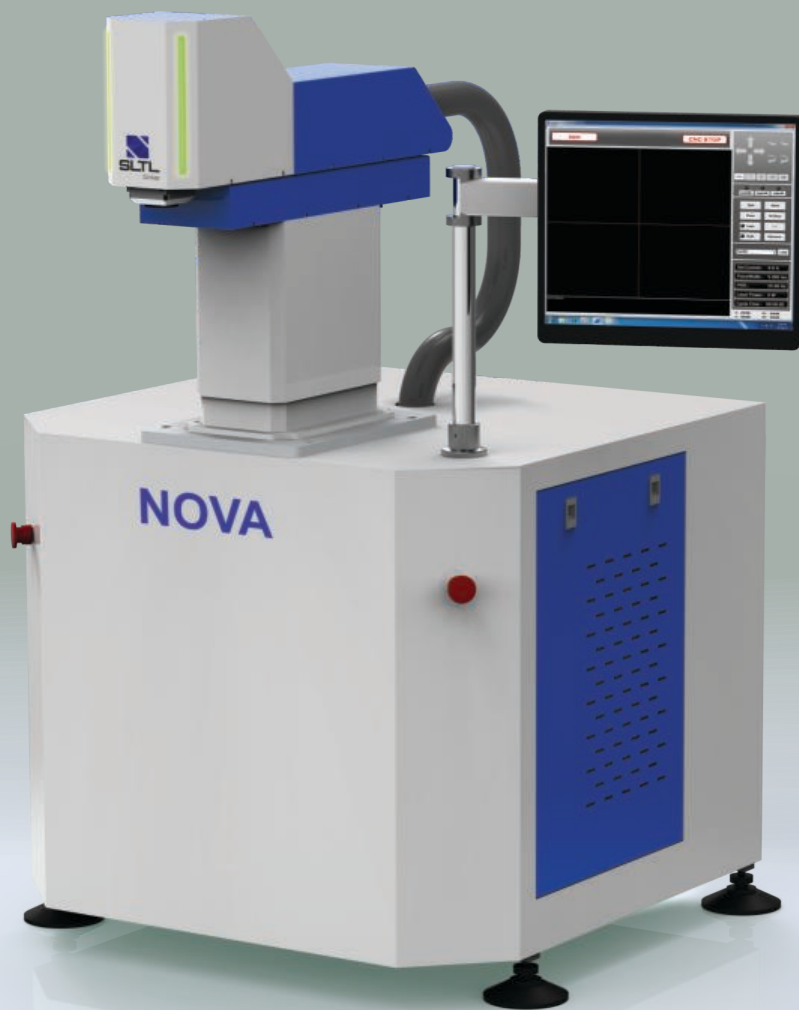


Innovative Laser Welding System



NOVA

Features and Benefits

- Versatile Fiber laser, working in continuous-wave and pulsed modes
- High linear processing speeds (up to 1m/sec), for minimized component distortion and high suitability for volume production applications
- Small laser beam width (~50µm), for narrow heat-affected zone
- High beam quality (BPP=2mm·mrad with 50µm fiber diameter)
- Pulse shaping capability, to enable tailored energy distributions
- Outstanding pulse power and energy stability

Applications

- **Spot and Seam Welding**
- **Drilling and Cutting**
- **Joining of aluminum to copper for electrical applications in automotive, transport and aerospace industries**
- **Fuel cell manufacture for applications including transport and bulk energy storage**
- **Medical devices, Packaging & Electronics and sensors**
- **Hardest material can be processed**

Technical Specification

Y Axis	: 200 mm
Z Axis	: 200 mm
Wavelength	: 1070 µm
Mode of operation	: Pulsed/Continuous-wave (CW)
Pulse Duration*	: 0.05-50 ms
Wall-plug efficiency	: >30%
Overall Size (L X W X H):	1240 mm X 795 mm X 1520 mm

Average Power(W)/	150/	300/	450/	600/	900/	1200/
Peak Power(W)	1500	3000	4500	6000	9000	12000
Maximal Pulse Energy(J)	15	30	45	60	90	120

* Technical specifications are subject to change without prior notice



An ISO 9001: 2015
certified company

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Long Pulse Quasi-CW Fiber Lasers:

SLTLs NOVA is capable of welding very small parts and fine structures to larger ones. Achieving strong, visually flawless seams is increasingly important in all production processes. And laser welding system from SLTL deliver the precision and efficiency required for large scale industrial applications. Having a compact, portable design laser system has a fully integrated, ergonomic and innovative user concept.

The fast precision linear motion, also with a new control concept, continue to ensure the greatest possible production throughput. The modular construction of it and standardized interfaces allow for an easy integration - also in already existing systems. The approved beam guiding systems ensure a safe operation under industrial conditions.

Advantages Over Flash Lamp

- No lamp replacement
- Compact
- 10x energy efficient, > 30 % wall-plug efficiency
- Temporal pulse-shaping
- No free space optics, all fiber design
- Thermally and mechanically robust
- Not a fiber delivered laser - FIBER laser
- Choice of delivery fibers:
Single-mode, multi-mode or flat top Red aiming diode



SLTL
Group



UK:

SLTL Ltd.



USA:

SLTL Inc.



Germany:

SLTL GmbH



China:

SLTL Guangzhou

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