

A-WAVE 250 LASER

For SLA[®] 250/30-40-50



- Solid state replacement for HeCd
- Up to 70 mW output power @ VAT
- For SLA 250/30-40-50
- Minimal hardware change, system is backward compatible
- No need for Buildstation™ code SW modification
- SL resin material proven
- All latest SL materials for solid state laser available
- Transparent for the operator
- Lower Power Consumption, Lower Heat dissipation, Air Cooled, increase UPS capacity
- New design and latest components
- Easier Maintenance
- Field replaceable diode
- Warranty : 1 year – hours unlimited. Additional years of warranty available upon request.

Truly maximize the SLA 250 productivity with high vat power, up to 70 mW @ 20Khz, excellent beam profile for smoot sidewall.

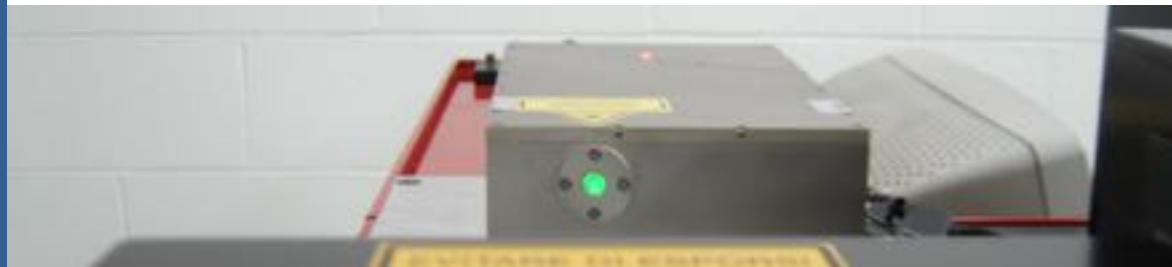
The A-Wave Series for SLA systems is a commercial product, not a specific design made for an application or a an exclusive supplier. Critical components like laser diode have low cost of ownership and are field replaceable.

It features a patent pending harmonic conversion technologies , with 24/7 proven reliability in various industrial applications.

Installs in one day with minimum modifications.

The power supply is installed internally to the system without external accessories. Software controlled for on/off switching.

Utilizing solid state laser technology, all the materials portfolio becomes available for the SLA 250, including transparent, ABS like and ceramic.



No need for build style modification.

Fully tested on materials , does not alter VAT properties , does not alter part properties.

The laser unit is air sealed to increase operating lifetime. Thanks to the harmonic conversion design does not require periodic tuning to recover crystal damage, thus reducing maintenance costs.

KEY SERVICE
YOUR Customized Experience

Technical Characteristics



A-Wave UV/355 nm series, are Q-switched TEM 00 mode lasers and engineered for the highly demanding 24/7 production environment, consisting of a laser head and a laser controller connected with an umbilical cable. The fiber coupled pumping diodes are located in the laser controller for easy field replacement. The laser head is assembled and sealed in a clean room to assure long term reliability and dust free contamination.

Many companies have already choose A-Wave for their most demanding applications since its introduction. Not only for rapid prototyping but also for wafer dicing/scribing, LCD repair, electronic circuits trimming, components marking, memory repair, photolithography, PCB manufacturing and flexible circuitry, marking, engraving and diamond cutting.

For more info
<http://www.kstm.it>
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| | VAT Power | Spot Size Diam. |
|------------------|------------|-----------------|
| SLA 250/30-40-50 | 70 mW max. | 0,100 mm min. |

Higher power, excellent beam quality, all SL materials portfolio available for the system.

| | |
|---------------------------|--------|
| Wavelength (nm) | 355 |
| Max Pulse Repetition Rate | 50 kHz |
| Spatial Mode | TEM 00 |
| Operating Voltage (VAC) | 90-260 |
| Line Frequency (Hz) | 47-63 |
| Cooling | Air |
| Ambient Temperature (°C) | 15-30 |

If your process requires high laser power, A-Wave is the perfect choice.

It meets or exceed original laser specs driving the SLA system at full drawing speed.

Specification are subject to change without notice



Upgrade to A-Wave

Helium Cadmium - HeCd

Power

A-Wave delivers up to 70 mW taking the SLA at its maximum performance. Maintains its output power for long time. Not effected by crystals damage.

HeCd Laser will deliver just 40 mW.

HeCd laser are prone to misalign resulting in low power and bad emission mode.

Every "n" hours re-melt operation is required.

Service

A-Wave is a entire new unit. Laser head & PS.

Spare parts are up to date and have lower running cost.

Lifetime is typically >10.000 Hrs.

HeCd have high cost of ownership , High price, low power, low lifetime, typically no more than 2500 Hrs.

HeCd have low efficiency and the technology is out of date.

Warranty

A-Wave comes with one year full warranty. Additional years of full coverage is also possible.

HeCd replacement lasers are refurbished units.

In case of tube replacement warranty will apply only for it, not for the power supply.