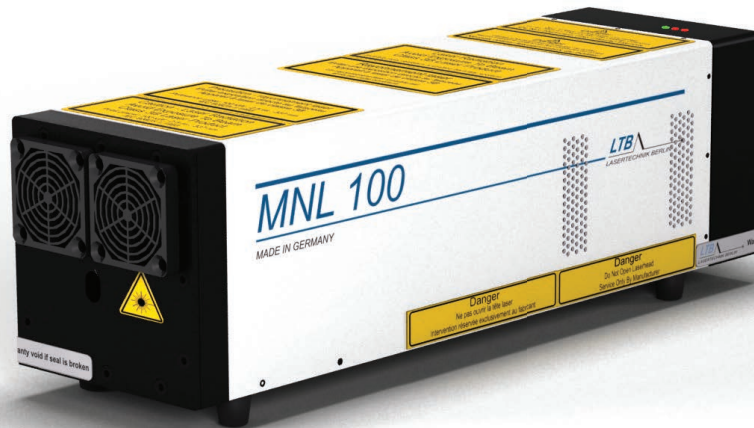


LIGHT. PRECISION. ANALYTICS.

337 nm High Power Laser



MNL 100^{High Power} Nitrogen laser

- 337 nm
- Up to 225 μJ
- Long operating life
- Replacement for 337-Si OEM, VSL-337-ND
- Adaptation to various MALDI-TOF spectrometers

LTB has developed a high power version of its nitrogen laser MNL 100. This is available both as standard and as LD-version with low divergence.

These versions are particularly recommended as high-quality replacement for nitrogen lasers of other manufacturers, which are not produced anymore. The MNL 100^{High Power} provides a clearly longer lifetime than the replaced models at the same parameters. Adaptation kits for the incorporation into MALDI-TOF mass spectrometers or LIF-systems of different manufacturers are offered by LTB on request.

The MNL 100^{High Power} provides the same features and high quality standards like the other proven models of the MNL 100 series at pulse energies of up to 225 μJ.

Applications

- OEM-laser source
- LIF-spectroscopy
- MALDI-TOF MS
- Ion trap MS
- UV-microscope
- Micro-LIPS
- Pumping of dye lasers

Specifications

		MNL 103-PD ^{High Power}	MNL 103-LD ^{High Power}
Wavelength	nm	337.1	
Pulse halfwidth	ns	3	
Pulse energy @ 30 Hz guaranteed after 60 million pulses	μJ	225	175
Pulse power, max	kW	75	58
Repetition rate, max.	Hz	30	
Energy stability SD/<E> (for all repetition rates)	%	≤ 2	
Beam dimensions	mm	3 x 4	4 x 2.5
Beam divergence	mrad	≤ 3.5 x ≤ 3	≤ 0.5 x ≤ 0.3
Jitter: ext. trigger - laser pulse	ns		± 2.5
Sync Out (optional)			
Jitter: electr. trigger - laser	ns		< 0.2