

## Microlution

# ML-5

**Three- or five-axis micromachining platform optimized for small parts**

- Increased productivity
- Exceptional precision, speed, and quality
- HAZ –free ultrafast laser micromachining



ML-5

# New horizons for small part machining

The ML-5 is industry's leading ultrafast laser micromachining platform, combining exceptional part handling, motion control and real-time positional feedback to deliver perfect micro holes and other features in seconds. Femtosecond Laser makes it possible to machine a wide range of materials producing with no tool wear, and no-heat affected zone, which enables ultrahigh surface and edge quality.

## Customize your machine

Additional options enhance your productivity and competitiveness: precision ground natural granite base, ironless linear motor, up to five axes of motion, Heidenhain glass scales, palletized workholding, standard G-code programming, automation for high-volume production capacity, workpiece touch probe, confocal laser probe and mechanical mill spindle.

## Precision machining

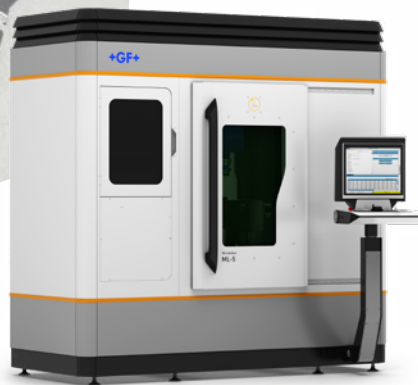
A natural granite base provides high thermal stability over extended production runs for exceptional part quality.

## Boost your productivity

Quickly change and adjust features quantity, size, shape and position. All linear axes are driven by linear motors, allowing for high peak acceleration motion with no backlash and significantly reduced cycle times and consumables.

## Unmatched accuracy

Best in class accuracy and repeatability (sub-micron) allows machining of the tightest tolerance applications. Athermal machining allows you achieve better accuracy ( $\pm 1$  micron) for perfect final parts in a single process.



## Technical specifications

### ML-5

Machine dimension *	mm (in)	2860 x 2100 x 2710 (112.5 x 82.7 x 106.5)
Machine weight (machine only)	kg (lbs)	2730 (6018)
Travel X/Y/Z	mm (in)	280 x 350 x 300 (11 x 13.8 x 11.8)
Rotary 4/5 axis **	°	A +95°-45° / C 360°
Laser sources	W	10/20/50

\* Width x depth x height \*\* Option