

Microlution
MLTC

Simplify complex tube cutting with Laser



Microlution MLTC

Design for extreme accuracy and uncompromising quality

The MLTC platform from GF Machining Solutions brings the precision and flexibility of laser machining together with the ability to create even the most complex designs in a single set-up, all with unmatched part quality. Achieve success in the medical device industry and other applications, thanks to the ultrafast MLTC Laser tube-cutting platform. Quickly and accurately machine complex features in metal and polymer tubes with high precision.



Granite base construction
Best in class thermal stability

Linear motors and high resolution glass scale encoder
Best in class linear axis accuracy

High acceleration spindle
High dynamic performance

Femtosecond laser process
Burr-free surface finishing

Co-axial camera and On-end vision system
Reduced set-up

Sealed cut box
For small parts catching

6' (1.8 m) bar feeder
Automation ready

Small tube handling
Run tubes down to 0.010"
(0.25mm) diameter



Technical specifications

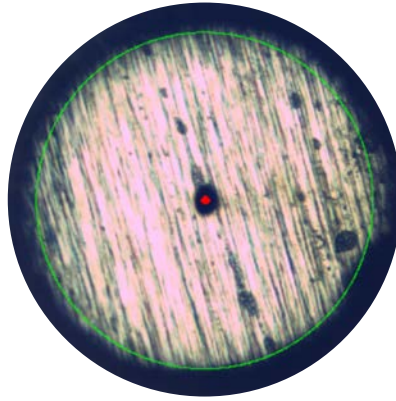
MLTC

Machine dimension*	mm (in)	1600 x 2000 x 2000 (63.0 x 78.7 x 78.7)
Machine weight (machine only)	kg (lbs)	2300 (5000)
Axis travel X/Y/Z	mm (in)	280 x 20 x 24 (11.0 x 0.8 x 0.9)
Spindle speed	rpm	1000
Laser source	W	40

* Length x depth x height



Special-designed spindle for very small delicate tube handling



Beam coaxial and on-end cameras to reduce scrap material and perform secondary operations



Bar Feeder options for high volume production

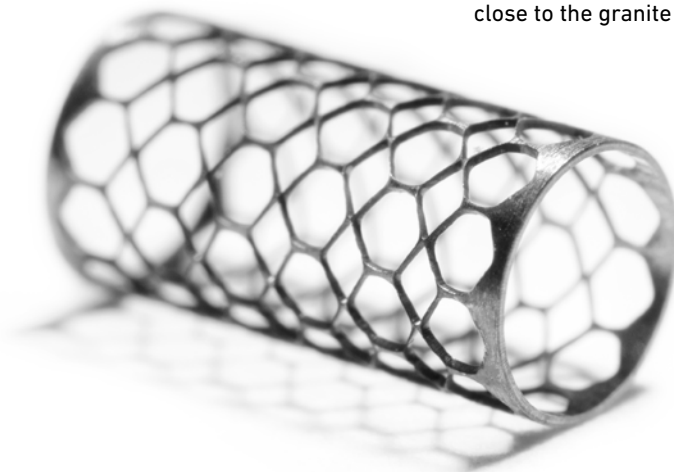


Femtosecond Laser process

Minimize material lost during the machining process, achieve superior, burr-free surface finishing, and get dimensional control—all thanks to femtosecond Laser pulses allowing clean material ablation.

Maintain consistently stable quality

Get the enhanced productivity that comes from achieving rapid accelerations while maintaining high accuracy. This is possible due to Microlution's core design principles: the granite base delivers stability due to its low thermal expansion coefficient and high mass; the short structural loops keep the work-piece (which is under high acceleration) close to the granite base.



One process to improve in quality, efficiency and flexibility

Experience the perfect combination of precision and flexibility in one Laser solution and machine even the most complex designs in a single setup—all with unmatched part quality and an optimized workflow.

Reduce scrapped parts

Easily handle small, thin-walled parts and avoid the risk of scrapped parts, thanks to our smart clamping tool. This innovative concept manages and clamps your parts without damage.



At a glance

We enable our customers to run their businesses efficiently and effectively by offering innovative Milling, EDM, Laser, Additive Manufacturing, Spindle, Tooling and Automation solutions. A comprehensive package of Customer Services completes our proposition.

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