

μΜΕΤΑ

FIBER LASER MARKING WORKSTATION

Technology this good has never been so affordable

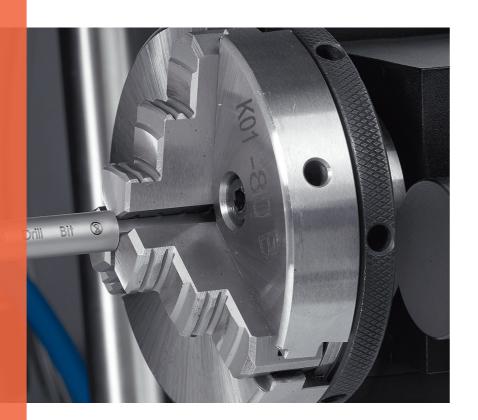
www.lotuslaser.com



STANDARD FEATURES

What makes a Meta workstation so special?

Let us tell you...



EXCELLENT SOFTWARE

µMeta comes with powerful Lotus Mark software. In the more than 20 years that we have been building laser marking machines we know of no other laser marking software that's as feature enriched or easy



INTERCHANGEABLE LENSES

Using lenses of variable focal length, scan area and focal point provides for maximum optimisation of mark effect, output quality and process speeds. µMeta comes with a 110mm lens as standard and can be fitted with 70mm, 180mm and 220mm options.

PROGRAMMABLE Z-AXIS

The Z-axis that we fit into μ Meta is 100% our design and build and comes with a proven track record of intensive use over many, many years. Controllable by software our Z-axis provides for super fast job set-up and job recall as well as the ability to mark objects at multiple heights in a single job.

RELIABLE LASER SOURCE

At the heart of µMeta is a powerful JPT 20w or 30w MOPA Fiber, or a budget conscious Raycus 20w or 30w 1µm Q-switched pulsed fiber laser, both with a proven record of consistent and reliable operation.

STANDARD FEATURES





T-SLOT TABLE & POINTING LASER

Accurate and stable fitting of jigs is essential for error free operation. That's why we incorporate to μ Meta a T-Slot worktable that's CNC cut from a solid block of aluminium. Coupled with a pointing laser delivered through the lens, set-up times can be reduced from many minutes to just a few seconds.



EXTERNAL START

For extra convenience μMeta can be fitted with an external push button or foot switch to activate the marking process.



PNEUMATIC ACCESS PANELS

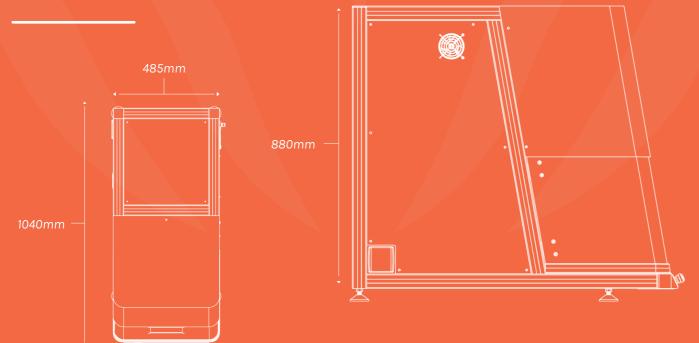
All of our Class 2 workstations incorporate pneumatically operated access panels for hands free, low noise and minimal wear/tear operation. Our design not only delivers convenience but automatically raises to give the operator an instant indication as to when the marking process is complete. The speed and design of our access panel can significantly contribute to reducing jobs times.

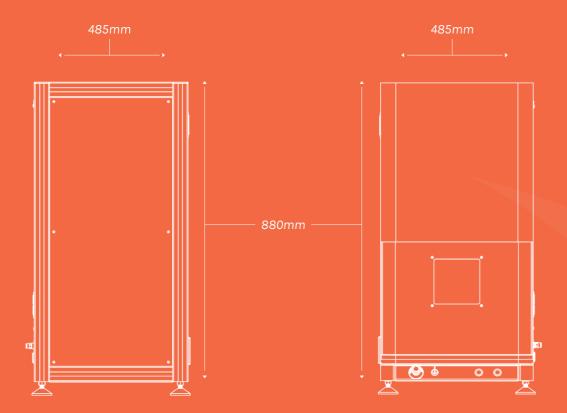


ROTARY DEVICE

For marking cylindrical objects the µMeta rotary device grips the part while turning it during the marking process to hold an accurate focal point.

GENERAL TECHNICAL DATA





WEIGHT & DIMENSIONS

Width	485mm
Depth	1040mm
Height	880mm
Weight	90kg approx
Foot (x4) adjustability	Height plus 20-40mm

LASER SOURCE: Rayous 20w Q-Switched option

Q-switched fiber laser
1060-1085nm optically isolated with random polarization
Pulse energy 1mJ @ 20kHz, M2 <1.5
PRR 20-60kHz
Pulse width <120ns
Integrated (red) pointer <0.99mW @655nm

POWER REQUIREMENT

umption <1A 200W approx
Consumption <1A

COMPUTER

Operating System	Windows
Connection	USB max 2.5m

AIR REQUIREMENTS (for pneumatic door)

Connecting port	12mm female push-fit	
Pressure	Regulated 4-7 bar max	
Oil/Moisture	Must be removed	
Flow negligible	Recommended receiver 24L	

MAXIMUM PART LOAD USING T-SLOT

	300mm
Υ	300mm
Z with 110mm lens	290mm
Z with 180mm lens	200mm
Weight	30kg

MAXIMUM PART LOAD LISING ROTARY AXIS (ontion)

	200mm
Diameter	100mm
Weight	2kg depending on fixture

SAFETY & SECURITY

Class 2 with Class 4 option
Standard
Standard
135mmx135mm
Compliant
Approved 1320021-000

MISCELLANEOUS

T-slot size	300x300x20mm
Integrated start button	
Standard lens scan area	110mm
Optional lens scan area	220mm, 180mm & 70mm S0
Pneumatic door	Standard
Z-axis programmable by software	Standard
Lotus mark control software	Standard
Rotary axis with chuck	Optional
Fume extraction	Application dependent - additional cost

WARRANTY (t&c apply)

Main system: 3 years	Labour: Variable by territor
Laser source: 3 years	Optics: 3 month
Warranty extensions Optional u	p to +5 years
Service contract Optional	

PERFORMANCE

Scan Head signal	Digita
Standard head max velocity	3000mm/sec

ENVIRONMENTAL REQUIREMENTS

Ambient temp. (min/max)	U-C to 40-C
Fume extraction rate	Apps dependant, seek advice
Protect from direct sunlight,	vibration, high humidity, dampness,

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