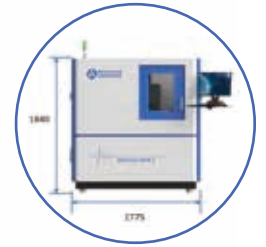


## AOFemto MDM 4

# Femtosecond laser processing system for vascular stents

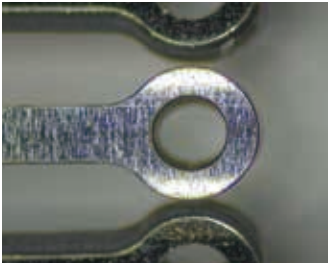


### System Advantages ▶

- »» 2-5 axis system optional
- »» Customized clamping and support
- »» Coaxial and off-axis monitoring
- »» Compatible with dualwavelength femtosecond pulses
- »» Dry and wet cutting optional
- »» Specialized integrated software

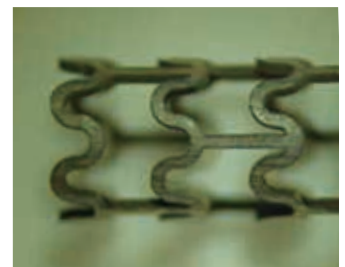
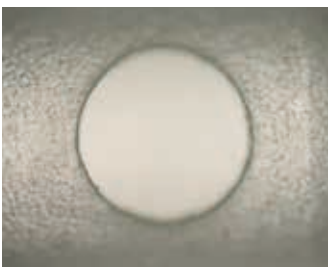
## Application case - Metal stent

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## Application case - Biodegradable stent

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# AOFemto 4000

## System Parameters

Processing performance	Maximum travel speed	2m/s (x-axis) ; 300rpm( $\theta$ -axis)
	Positioning accuracy	$\pm 1\mu\text{m}$ (X-axis) ; $\pm 5\text{arc sec}$ ( $\theta$ -axis) ; $\pm 2\mu\text{m}$ (Y-axis) ; $7\mu\text{m}$ (Z-axis)
	Repeatability accuracy	$\pm 0.5\mu\text{m}$ (X-axis) ; $\pm 3\text{arc sec}$ ( $\theta$ -axis) ; $\pm 1\mu\text{m}$ (Y-axis) ; $\pm 5\mu\text{m}$ (Z-axis)
Processable Workpiece	Tube material type	Implantable metal and polymer tubing
	Tube diameter	0.5~16mm/16~30mm
	Tube length	<2m
	Processing range	Customizable
	Tube thickness	0.02mm~0.6mm
	Flat machining	Customizable
Laser Source	Laser type	Dual-wavelength femtosecond laser optional
	Frequency range	100KHz~1000KHz
	Wavelength	1030nm/515nm
	Beam quality	$M^2 < 1.3$
	Maximum power	20w/10w
	Pulse width	<800fs
File type	Compatible file type	DXF、DWG、IGES、Gerber、EPS、PDF、AI、PLT、Trumpf-GEO
Utilities	Power supply	Three-phase 380VAC $\pm 10\%$ 、50/60Hz、40A、3L+N+PE five-wire system
	Ambient temperature	23 $^{\circ}\text{C} \pm 2^{\circ}\text{C}$
	Compressed air pressure	0.5Mpa~0.7Mpa
	Ambient humidity	<70%RH without condensation
	Process gas pressure	Nitrogen gas, Argon gas, <1.5 Mpa
	Floor load-bearing capacity	1000Kg/m <sup>2</sup>
Dimensions and weight	Maximum outer dimensions	1775mm $\times$ 1300mm $\times$ 1840mm
	Weight	2000Kg