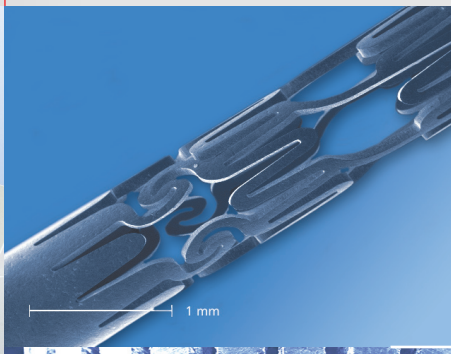
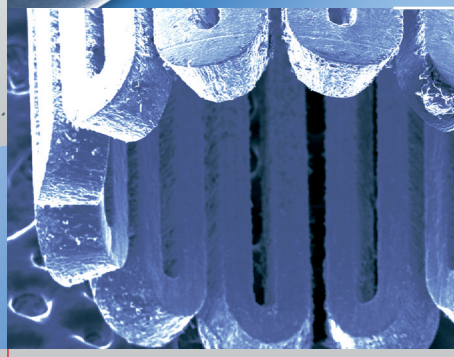
rofin
BAASEL LASERTECH

StarCut Tube

...as fine as <15 µm – unmatched accuracy





The StarCut Tube – a high precision laser cutting system for cutting medical implants such as stents or other precision components. It features fast and very precise motion systems and sophisticated control electronics, which adjust all performance parameters of the beam source optimally to the travel speed of the motion system. Cutting even smallest radii is no problem. The massive and proven granite set-up accounts for a preciseness of only few micron – with high long-term stability.

The flexible concept of the StarCut Tube allows the integration of various beam sources. The proven StarPulse C 18 laser with 7 to 25 Watt, achieves cutting widths of 18 -20 µm. The new StarPulse C 12 fm, a fundamental mode laser with 12 W power and also the StarFiber reduce the cutting width to less than 15 µm. The system features an automatic tube feeder. A stereo microscope and an optional camera, allow the exact monitoring and control of the cutting process.

For more than 10 years, ROFIN Baasel Lasertech has been developing high precision stent cutting systems for the medical device technology. Several hundred systems installed all over the world - in many places in 24/7 operation – prove the high quality and productivity of the laser systems.

Within the ROFIN group, BAASEL LASERTECH is responsible for the laser micro market. The wide range of products includes laser systems for precision welding, precision cutting, micro structuring and micro drilling. The complete product development is carried out in-house in direct co-operation with customers. Numerous innovations worldwide and more than 31,000 lasers and laser systems in use all over the world indicate the creative energy and product quality of the ROFIN group.

FOCUS ON FINE SOLUTIONS

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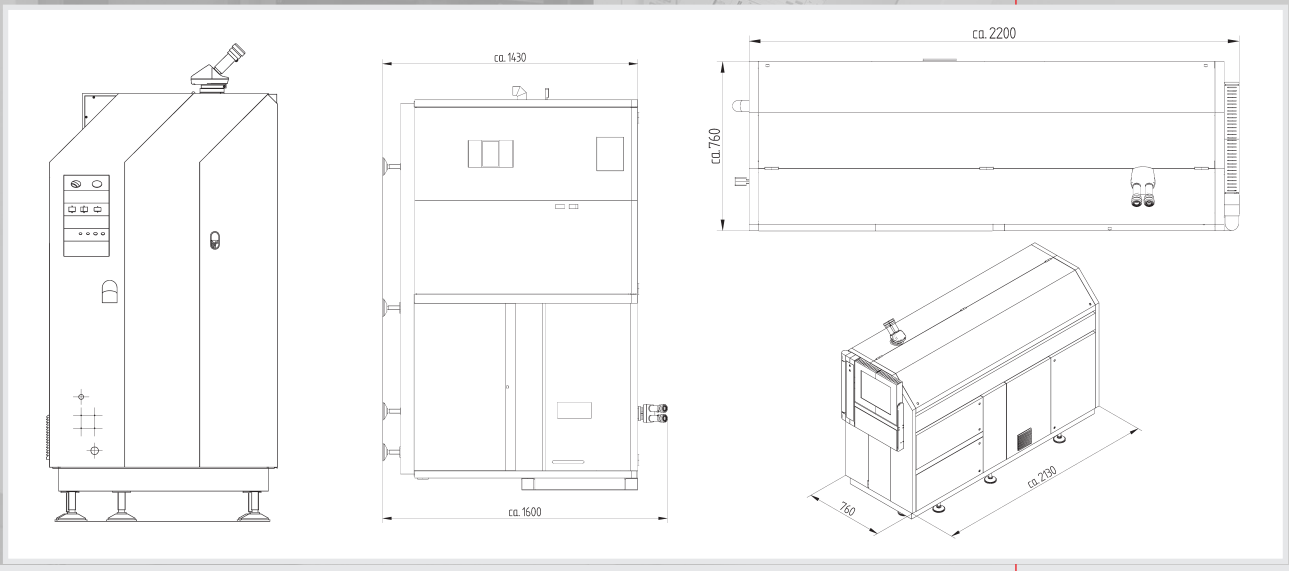
StarCut Tube



Specifications

Laser	StarFiber	StarPulse C 12 fm	StarPulse C 18
Type	Er/Yb-doted cw fiber laser	pulsed Nd:YAG laser	pulsed Nd:YAG laser
Wavelength	1070 nm ±5 nm	1064 nm	1064 nm
Nominal power	> 20 W (for cutting widths* < 16 µm)	12 W @ 800 Hz (for cutting width* < 18 µm) 11 W at 1100 Hz	7 W @ 1000 Hz (for cutting width* < 20 µm) 18 W @ 1000 Hz (for cutting width* approx. 35 µm) 25 W @ 1000 Hz (for cutting width* approx. 60 µm)
Pulse duration /pulse width	> 1 µsec - cw	0.05 - 2.5 msec	0.05 - 2.5 msec
Pulse frequency	up to 170 kHz	up to 4000 Hz	up to 4000 Hz
Beam expansion	2-8 (can be adjusted)	2-8 (can be adjusted)	alternatively 3 - 6
		*cutting width in stainless steel/nitinol with 100 µm thickness with a focus length of approx. 77 mm	
Beam quality	M^2 < 1.2	M^2 < 1.2 (fundamental mode)	M^2 < 1.4 (7 W)
Power shutter		opening rise time approx. 5 msec	opening rise time approx. 5 msec

Measures	
Dimensions (WxDxH)	2200 x 760 x 1600 mm
Weight	1200 kg

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