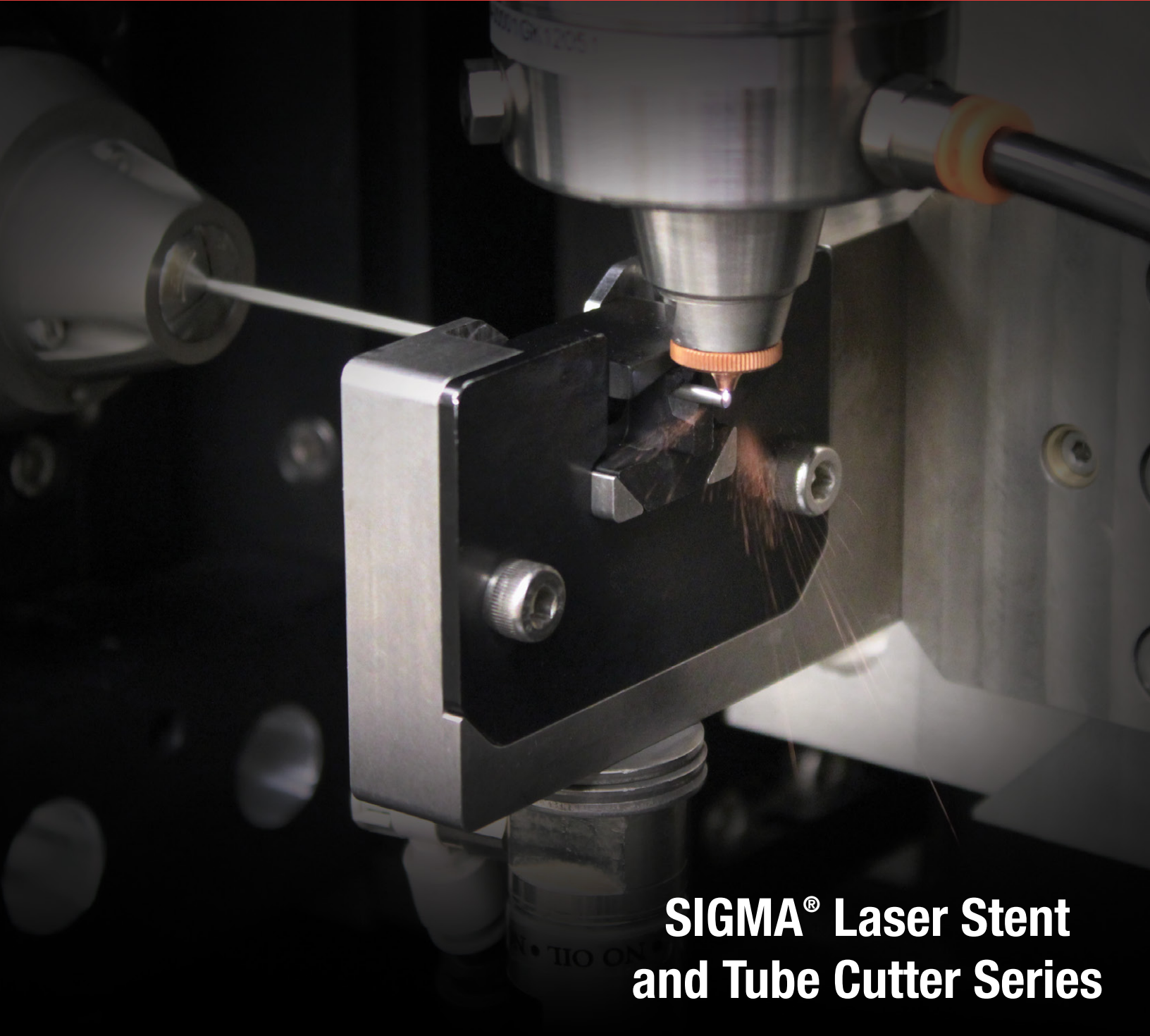


AMADA[®]
AMADA WELD TECH

Improving manufacturing through design, technology and innovation



**SIGMA[®] Laser Stent
and Tube Cutter Series**

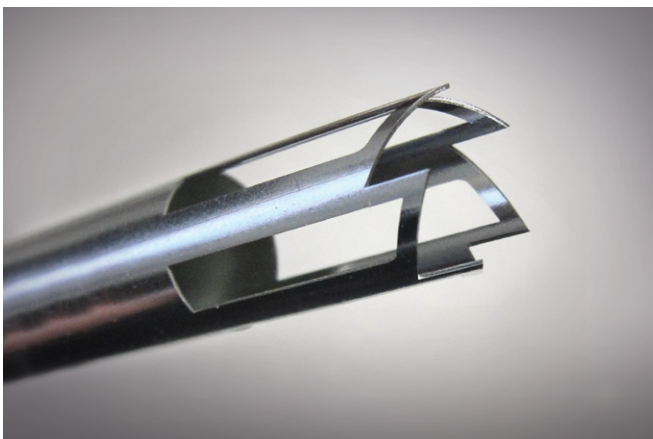
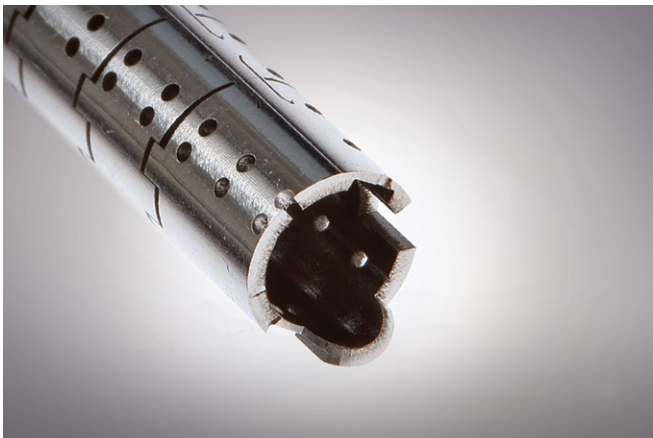
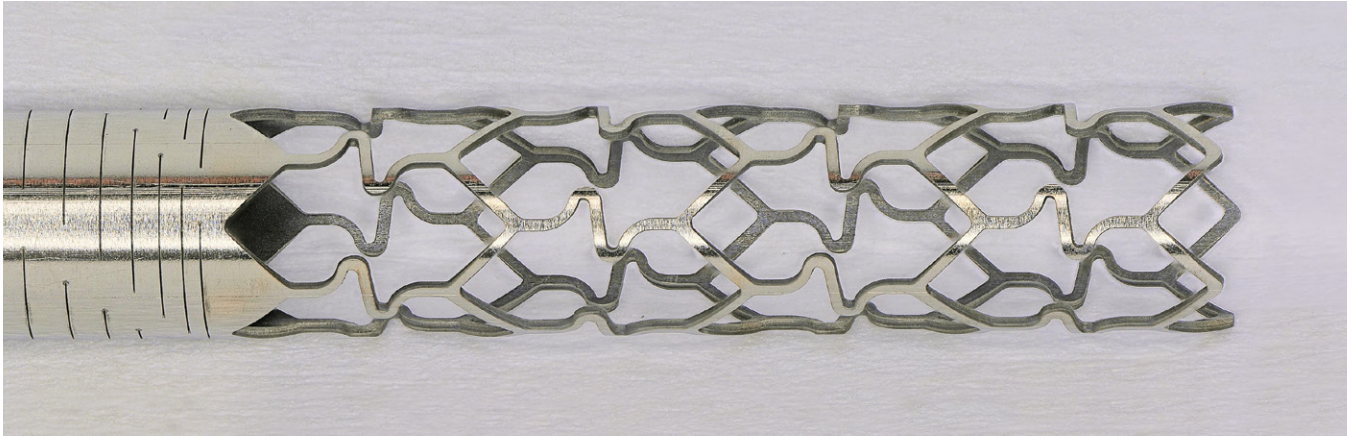
AMADA WELD TECH has been providing laser systems solutions to the medical device industry for over 20 years. This third generation of the SIGMA Stent and Tube Cutter was designed from the ground up to provide a compact, production efficient system geared toward the operator for ease of use and setup for day in day out use.

As with all of our integrated laser systems, the Tube Cutter comes with our 24/7 service support, and the support of our in-house applications engineers.



SIGMA Laser Stent and Tube Cutter Series

All applications for femtosecond and fiber laser cutting are completed in our Technical Center cutting labs.



1 Our applications engineers test and select the best laser for the process from an array of femtosecond lasers

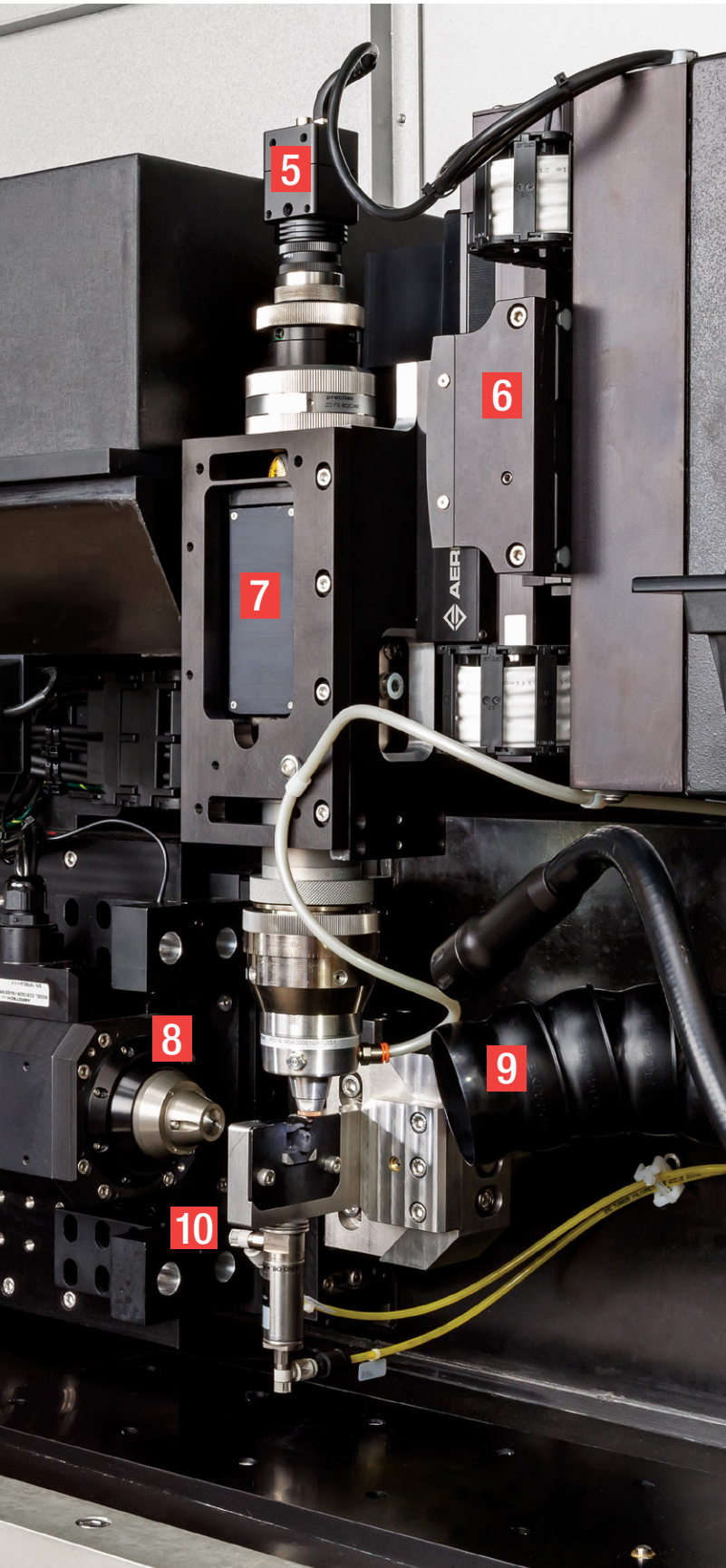
2 Internal gooseneck lighting for setup and part viewing

3 Standard 300 mm x linear stage

4 Composite base for maximized vibration isolation and space efficient



SIGMA Femtosecond Laser Stent and Tube Cutter



- 5** In-line camera for part and process viewing
- 6** ZY stage set, 50 mm x 100 mm linear stages
- 7** Precision cutting head with highest quality optics to provide minimum spot size of 12 μm (0.0005 in)
- 8** Rotary stage / collet for tube diameters up to 30 mm (1.18 in)
- 9** Nano-particulate extraction
- 10** Proprietary front guide system

- Femtosecond or fiber laser systems
- Femtosecond laser provides ultra-high precision cutting of metals and plastics
- Femtosecond laser processing provides minimal post-processing
- Compact footprint
- Fully vibration isolated platform
- Tube diameters up to 30 mm
- Available in 2, 3, or 4 axes
- Seamless pattern cutting of tubes longer than X stage length
- Quick change-over XY flat cutting option
- Excellent workspace access
- Recirculating wet cutting with integrated water pump system
- Automatic tube loader for wet and dry cutting
- Single screen operator designed GUI
- Application and CAM training provided



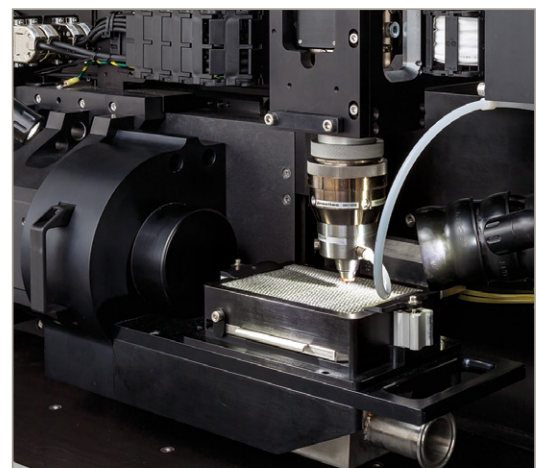
Excellent access to all system parts



SIGMA Fiber Laser Stent and Tube Cutter



SIGMA Femtosecond Laser Stent and Tube Cutter



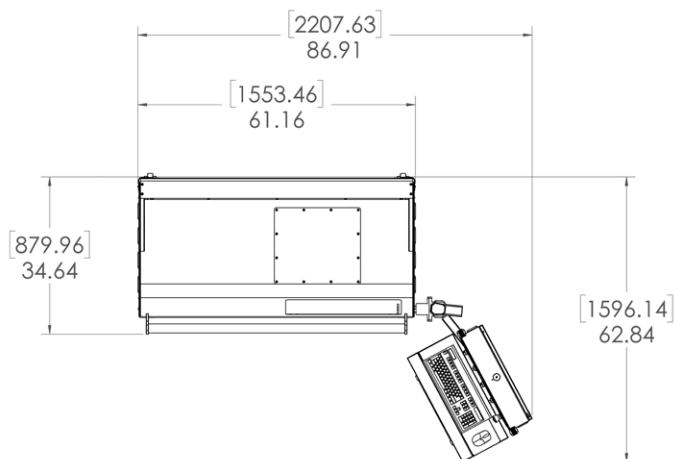
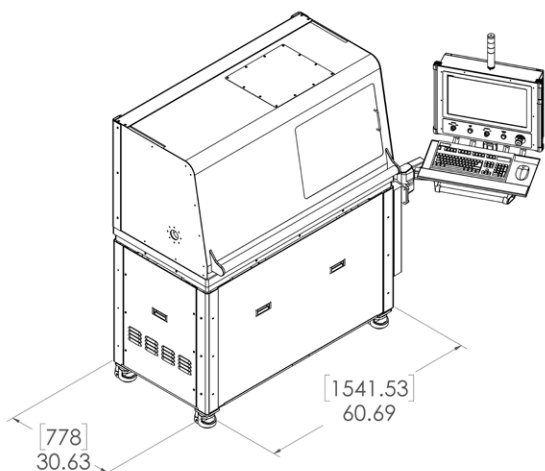
Flat XY 100 mm x 100 mm cutting platform

LASER TECHNICAL SPECIFICATIONS

Laser Source	Femtosecond	Fiber
Wavelength	1030 / 515 nm	1070 nm
Pulse energy	maximum 200 μ J	
Frequency	maximum 1 MHz	Single shot - 100 kHz
Pulse width	259 fs - 10 ps	20 μ s - CW
Average power	5, 10, 15, 20, 40 W	250 W

SYSTEM TECHNICAL SPECIFICATIONS

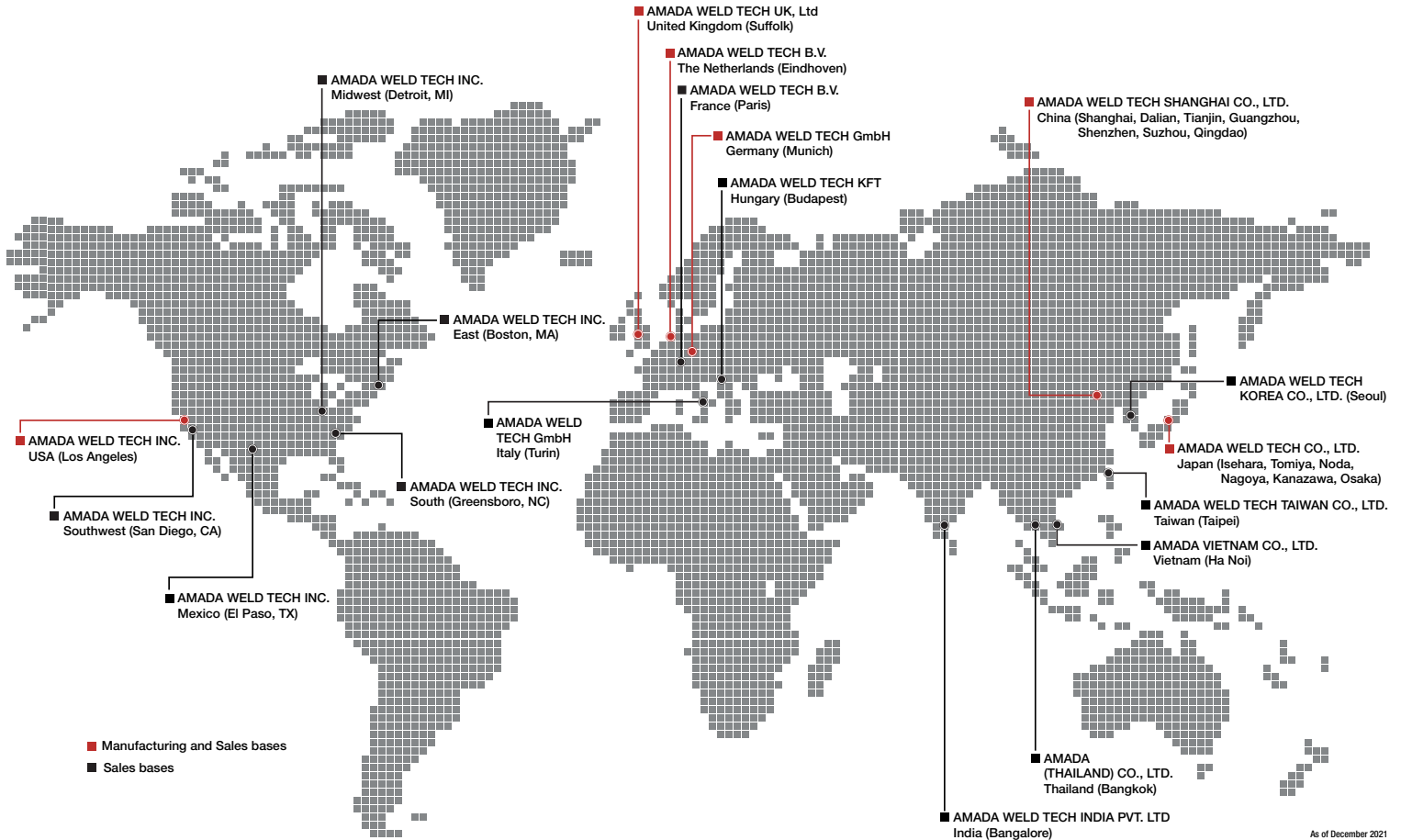
Axes travel (x, y, z)	300 mm x 100 mm x 50 mm (12 in x 4 in x 2 in)
Tube diameter	Up to 30 mm (1.18 in)
Input power	208-240 VAC 50-60 Hz, single phase, 30 Amps
Dimensions (D x W x H)	790 mm x 1525 mm x 1960 mm (31 in x 60 in x 77 in)
Weight	1360 kg (3000 lb)



- Tube diameters > 0.2 mm (0.008 in)
- Tube length maximum 3700 mm (12.1 ft)
- Wet tube loading for diameters > 1.5 mm (0.06 in)
- Robotic load/unload options



SIGMA Laser Stent and Tube Cutter Auto Load



As of December 2021



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