

Laser welding for elbow and tee tubes



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The MSL series has been specially developed for laser welding of round elbow or tee tubes. These are characterised by absolute tightness and no leakage.

The system is flexible and easy to programme. MSL impresses with quick and easy mould changes, low maintenance and its compact footprint. It can operate as a stand-alone unit or integrated into a production line. The machine is loaded and unloaded manually, while the welding process is fully automatic.

	Tee laser overlap welding	Elbow laser overlap welding	Elbow laser butt welding	Elbow tig welding
Diameter range (ID)	60 – 400 mm	80 – 400 mm	80 – 250 mm	80 – 400 mm
Sector	87° – 90°	30° – 45° – 60° – 90°	45° – 90°	45° – 90°
Thickness	0,4 – 0,8 mm	0,4 – 0,8 mm	0,8 – 2 mm	0,4 – 0,6 mm
Material	Stainless steel / Mild steel / Galvanized		Mild steel / Galvanized	
Laser	400 W – 1.000 W	1.000 W – 2.000 W	3.000 W	TIG

Novatec by Weil Technology

Novatec Engineering was founded in 2012 for the construction of specialised machines for tube and sheet metal processing. Since its foundation, turnkey solutions with complete automation have been developed and manufactured in northern Italy. Novatec has in-depth expertise in laser cutting and welding, rollforming and tube end processing technologies.

Since January 2024, Novatec Engineering has been a subsidiary of Weil Technology GmbH, based in Müllheim in southern Baden. A total of around 250 employees at Weil Technology manufacture machines for sheet metal processing using laser welding and cutting.

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