

Laser Spindle-O

ORBIAL OPTICS FOR PROGRAMMED CIRCULAR WELDING

The Laser Spindle-O is designed for automatic circular welding of metallic axis-symmetrical components up to a diameter of 15 mm.

The laser spindle can be connected to any fiber-coupled laser source with 1064-1070 nm wavelength and QBH-compatible plug (optimized for ALPHA LASER's AL 150 F OEM), and it can be integrated in existing machine setups.

The laser spindle is available in numerous variants, e.g. with camera, with different inclination angles of the deflection unit, and with motor-controlled or mechanical collimation.

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Technical Data

Dimensions (B × T × H)	200 mm × 300 mm × 450 mm
Weight	approx. 10 kg
Max. rotation speed	1,000 U/min.
Spot	50 µm with standard configuration
Laser control	External (via user interface of the laser source)
Inclination angle of the deflection unit	15° (standard), up to 45° (optional)
Focusing lens	100 mm (standard), 150 mm (optional)
Collimation lens	Motoric (standard) or mechanic (optional)
Further options:	<ul style="list-style-type: none"> • Laser (e.g. AL 450 F OEM) • Camera (for process monitoring) • LED lighting

Laser system with Laser Spindle-O

