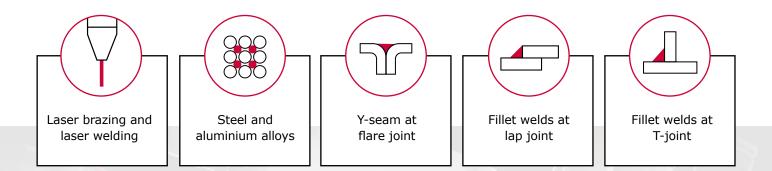
scansonic

THE NEXT GENERATION

OF LASER WELDING AND BRAZING WITH TACTILE SEAM TRACKING

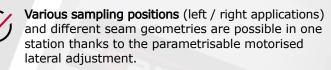
HOW IT WORKS

The filler wire required for the seam during joining also serves as a mechanical sensor. The filler wire is continuously pressed into the joint by the swivel axis and melted in the laser focal point; it positions and guides the processing head precisely over the seam. The additional wire thus forms a wear-free, self-renewing guide tip - directly at the focus of the laser and with consistently high accuracy.



PRODUCT BENEFITS

Stable process control and highest seam quality through automatic compensation of component tolerances by tactile seam tracking with filler wire.



Industry 4.0 as the new standard for connectivity and intuitive user interfaces with recipes for operating and configuring the optics.

SCeye® system for highly automated and intelligent process monitoring, as well as for recording all videos and data from the process.

 \checkmark

Integrated 3D weight compensation and force control guarantee high-precision control of the wire pressure forces and enable a processing space of 360°.



Shortened start-up times, faster optics changeovers and more efficient service thanks to plug & play in the hardware and interface architecture.

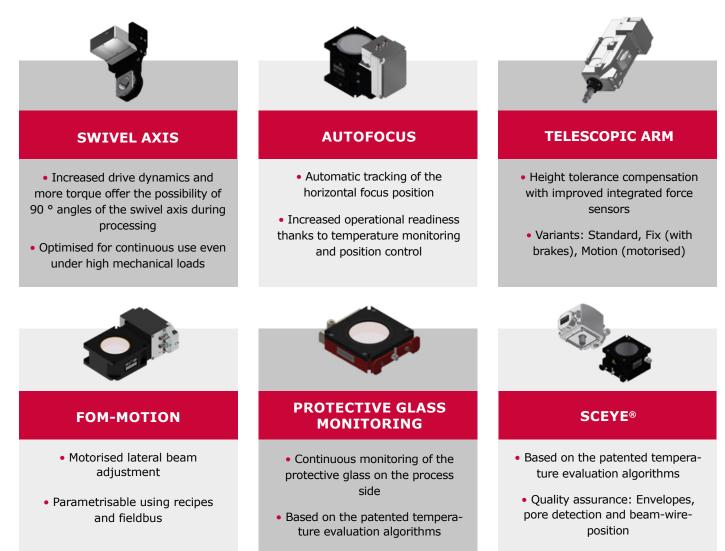


Easy handling thanks to the optional integration of external functions such as wire feeder, media control, QA systems and direct control of the laser source.



Individual device configuration thanks to the modular scapacs[®] building block system and expandability over the entire product life cycle.

SCAPACS®-MODULES



TECHNICAL DATA

Wavelength	900 – 1080 nm
Laser power	< 6 kW up to 10 kW*
Laser protection class	4
Image scales	1:0.9 up to 1:5.4
Total angle of acceptance	up to 485 mrad*
Focal lengths	141 - 250 mm
IP class	Processing optics: IP60 (up to IP64 possible by sealing the laser light cable receiver) Switch cabinets: IP54
Voltage supply	24 V / 10 A provided by the customer or 230 / 400V 4 A using the controller power-supply box
Dimensions (L x W x H) in mm	approx. 350x 250x 580*
Weight	Processing optics: approx. 20 kg Controller power-supply box: approx. 25 kg

*depending on the configuration

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