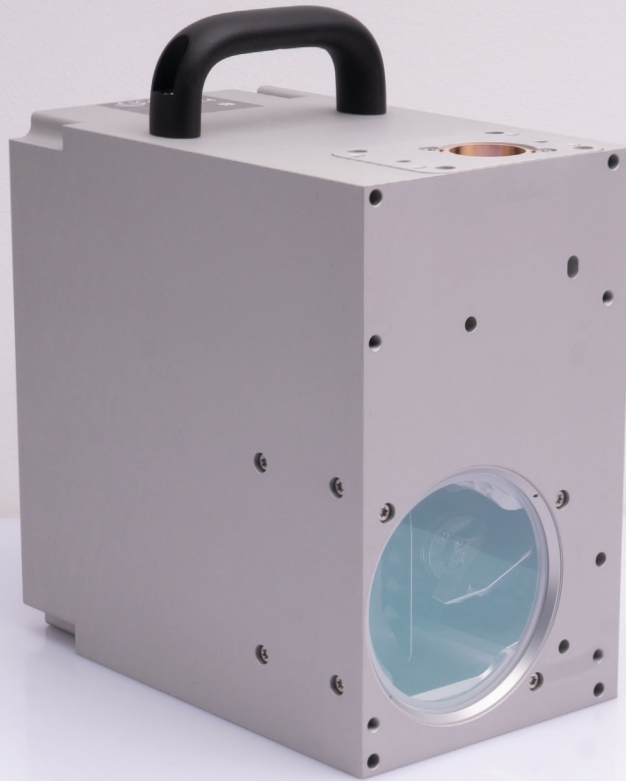


New!



excelliSCAN 30 ARRAY

More Productivity for Additive Manufacturing

Advantages

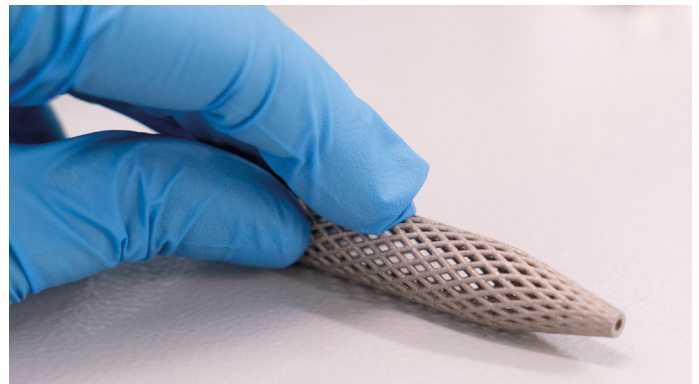
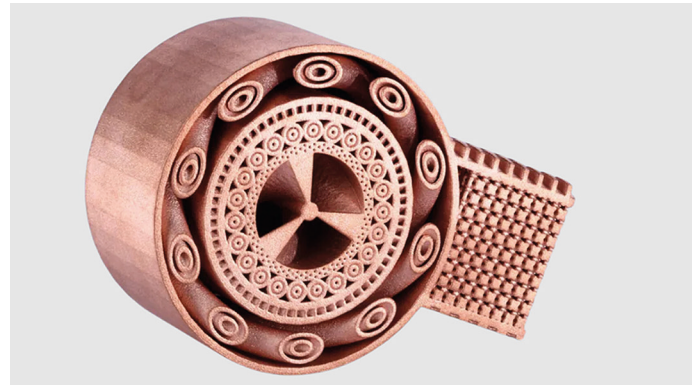
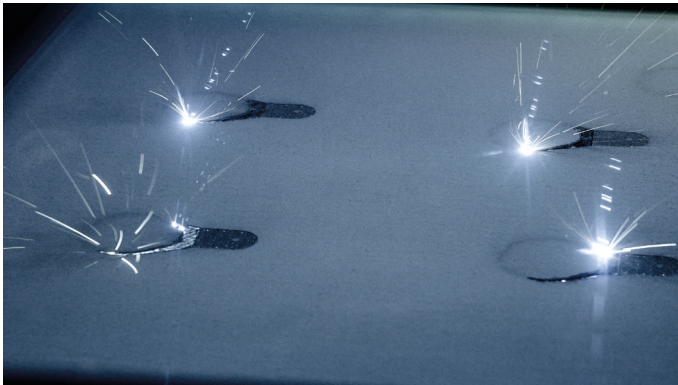
The excelliSCAN system especially for additive manufacturing

The excelliSCAN 30 ARRAY is specially adapted for additive manufacturing and impresses above all with its compact design. It also includes other features that turn it into the ideal tool for demanding AM applications:

- High image field overlap in multi-head systems
- SCANAhead control technology
- Temperature sensors for system monitoring
- Outstanding dynamic performance

Ready for SCANmotionControl

- Shortest process times thanks to optimum use of scanner dynamics and laser power
- Maximum accuracy and precise laser control
- Simple trajectory planning and simulation:
"What you see is what you get"

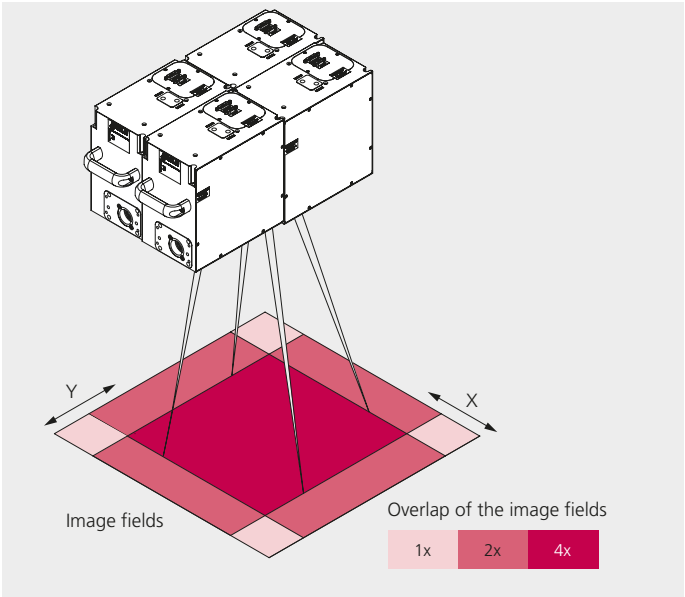


Highlights & Specifications

High image field overlap

The slim design and a optimized galvo-position allow the systems to be installed close together in a multi-head system.

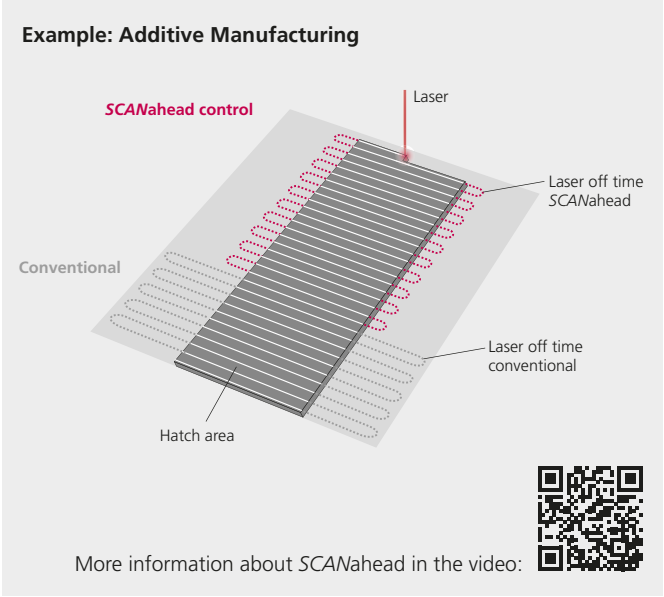
Your advantages: high productivity, simple integration, more freedom in process design



SCANahead control technology

The maximum acceleration and deceleration significantly reduces reversing distances.

Your advantages: shorter process times



Precision & Stability

Repeatability (RMS) [μrad]	< 0.4
Dither (RMS) [μrad]	< 1.6
Nonlinearity [mrad] ⁽¹⁾	< 0.5
Temperature drift	
Offset [$\mu\text{rad/K}$]	< 10
Gain [ppm/K]	< 5
Long-term drift	
Over 24 hours (after 3 h warm-up) ⁽²⁾	
Offset [μrad]	< 20
Gain [ppm]	< 25

Dynamics

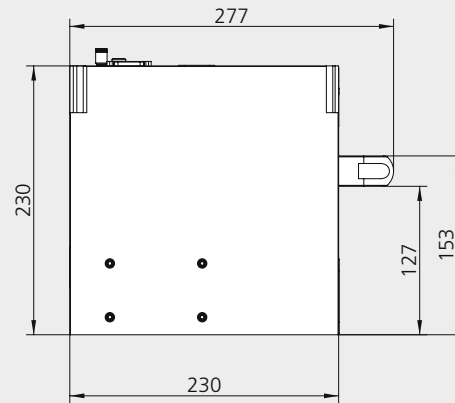
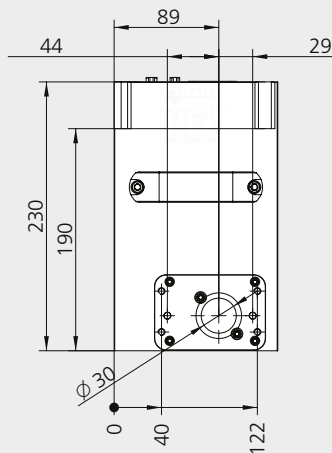
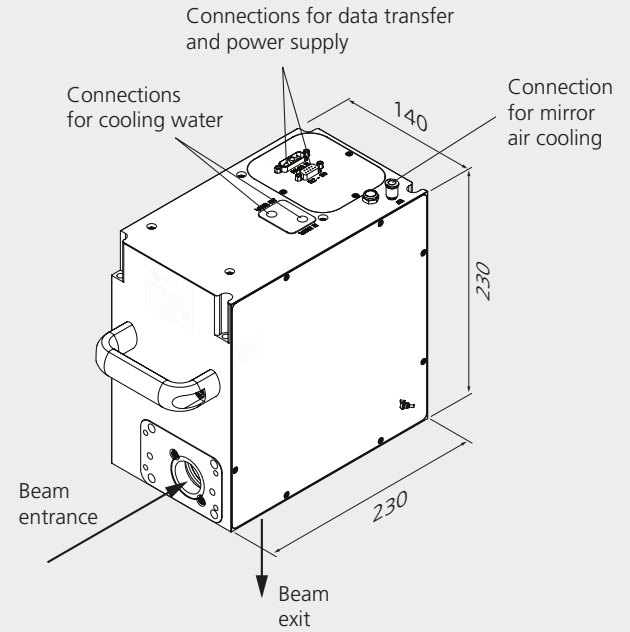
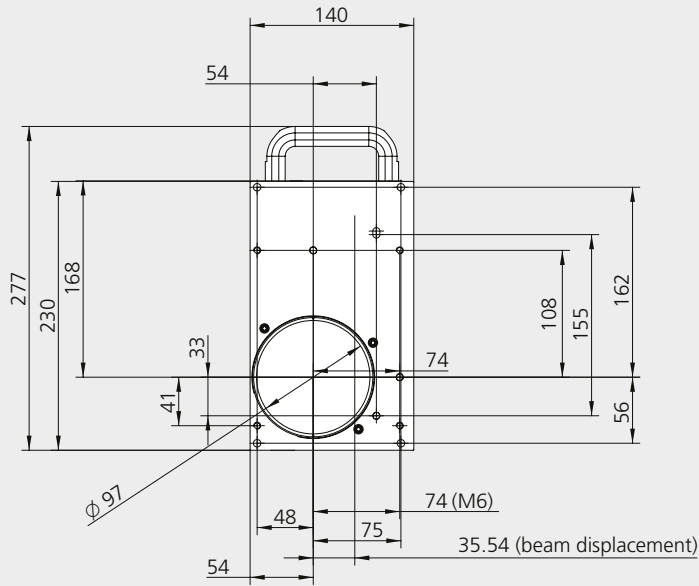
Tracking error [ms]	0
Acceleration [rad/s^2]	130,000
Maximum speed [rad/s]	70

Common Specifications

Optical performance	
Typical scan angle [rad]	± 0.37
Gain error [mrad]	< 5
Zero offset [mrad]	< 5
Wave length [nm]	1060 – 1085
Max. laser power [kW]	2
Power supply (RMS)	48 V, 5 A
Digital interface	SL2-100
Weight [kg]	approx. 9

⁽¹⁾ related to 0.77 rad ⁽²⁾ at constant ambient temperature and load
(all angles are in optical degrees, all specifications are preliminary)

Technical Drawings



all dimensions in mm