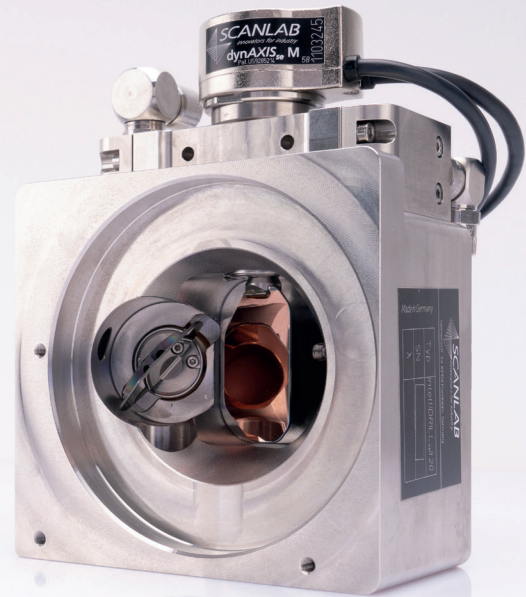
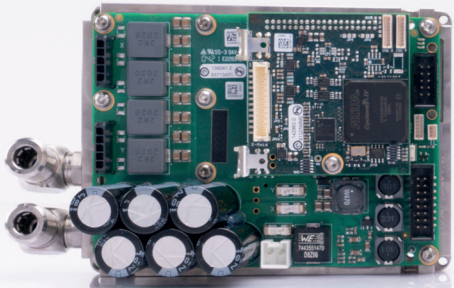


**NEW!**



**intelliDRILL<sub>se</sub> II – smart drilling**



# intelliDRILL<sub>se</sub> II

## Key Features

- Fast step response times permit highest throughput
- New motor design with improved thermal management
- Lightweight beryllium mirrors
- Digital dynAXIS<sub>se</sub> encoder technology
- Drill time optimization<sup>(1)</sup>:
  - automatic jump time setting for all jump lengths
  - time-efficient parallel handling of positioning and laser delays

## Typical Applications

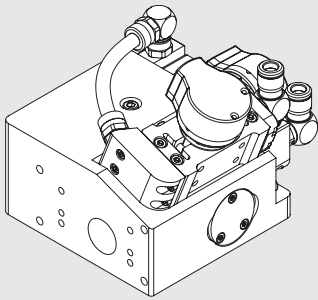
- PCB industry
- Via hole drilling
- Percussion drilling

## Specifications

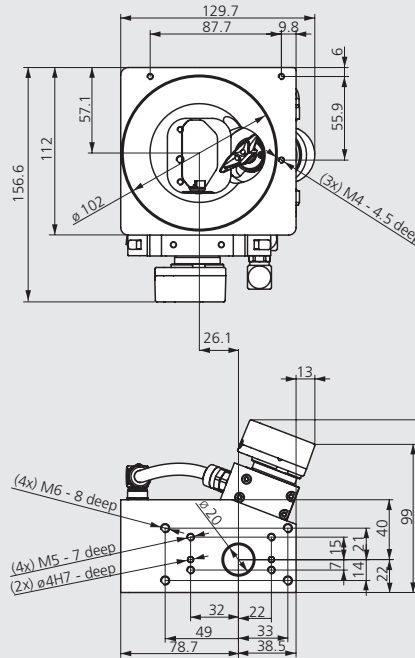
Aperture	20 mm
Maximum scan angle <sup>(2)</sup>	± 0.349 rad
Wavelength <sup>(3)</sup>	9400 nm
Step response (positioning and settling to ±5 µm at 100 mm focal length)	0.22 ms at 0.25 mm 0.25 ms at 0.5 mm 0.34 ms at 1 mm
Temperature drift <sup>(2)</sup>	Offset: < 10 µrad/K Gain: < 5 ppm/K
Long-term drift <sup>(2)</sup> (8-hour-Drift after 30 min warm-up, at constant ambient temperature and load)	Offset: < 50 µrad/K Gain: < 50 ppm/K
Power supply requirements	48 V, 6 A (RMS)
Water cooling requirements	3 l/min at 20 °C and Δp < 1 bar, p < 4 bar

- <sup>(1)</sup> RTC5 or RTC6 control board required  
<sup>(2)</sup> all angles are optical angles  
<sup>(3)</sup> others on request

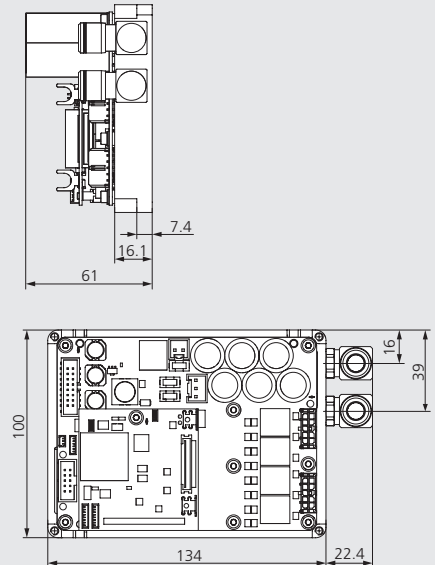
intelliDRILL<sub>se</sub> II Module Layout



intelliDRILL<sub>se</sub> II Module Dimensions



Digital ISB Servo Board Dimensions



all dimensions in mm