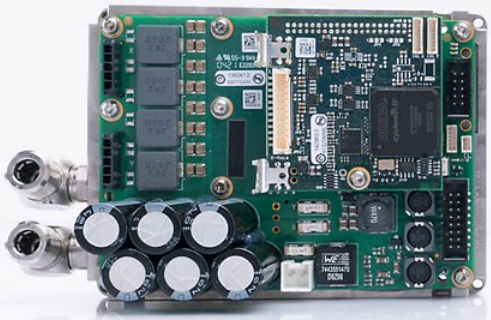


intelli*DRILL*$_{se}$ II – smart drilling

SCANLAB
innovators for industry

intelli*DRILL*$_{se}$ II

Key Features

- Fast step response times permit highest throughput
- New motor design with improved thermal management
- Lightweight beryllium mirrors
- Digital dyn*AXIS*$_{se}$ encoder technology
- Drill time optimization[1]:
  - automatic jump time setting for all jump lengths
  - time-efficient parallel handling of positioning and laser delays
- On request also available with *SCAN*ahead technology

Typical Applications

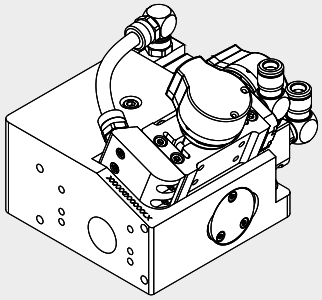
- PCB industry
- Via hole drilling
- Percussion drilling

Specifications

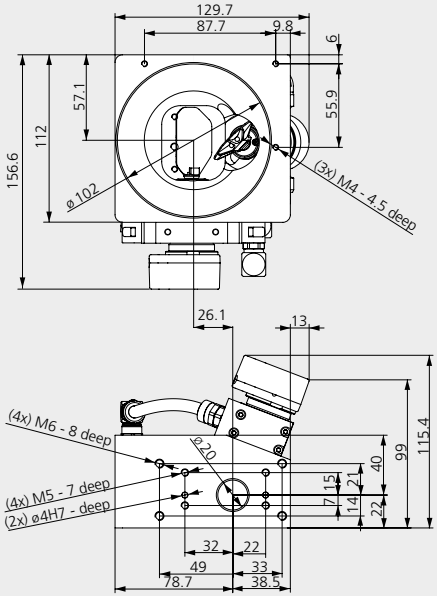
Aperture	20 mm
Maximum scan angle[2]	± 0.349 rad
Wavelength[3]	9400 nm
Step response (positioning and settling to ±5 µm at 100 mm focal length)	0.22 ms at 0.25 mm 0.25 ms at 0.5 mm 0.34 ms at 1 mm
Temperature drift[2]	Offset: < 10 µrad/K Gain: < 5 ppm/K
Long-term drift[2] (8-hour-Drift after 30 min warm-up,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

[1] RTC5 or RTC6 control board required
[2] all angles are optical angles
[3] others on request

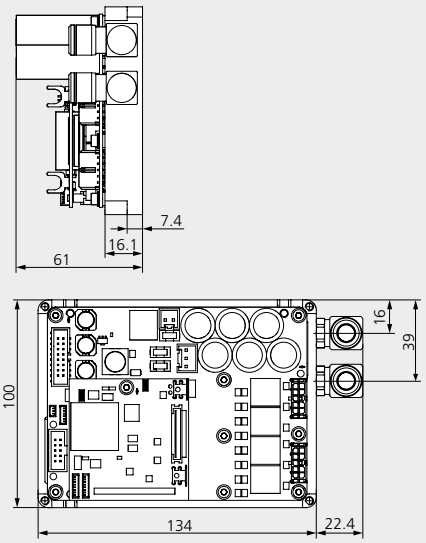
intelli*DRILL*$_{se}$ II Module Layout



intelli*DRILL*$_{se}$ II Module Dimensions



Digital ISB Servo Board Dimensions



all dimensions in mm

SCANLAB GmbH · Siemensstr. 2a · 82178 Puchheim · Germany
Tel. +49 89 800 746-0 · info@scanlab.de · www.scanlab.de

SCANLAB America, Inc. · 100 Illinois St · St. Charles, IL 60174 · USA
Tel. +1 630 797-2044 · info@scanlab-america.com · www.scanlab-america.com

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