

CM-AMB-400

High-speed active magnetic bearing chopper for infrared, laser and x-ray applications.

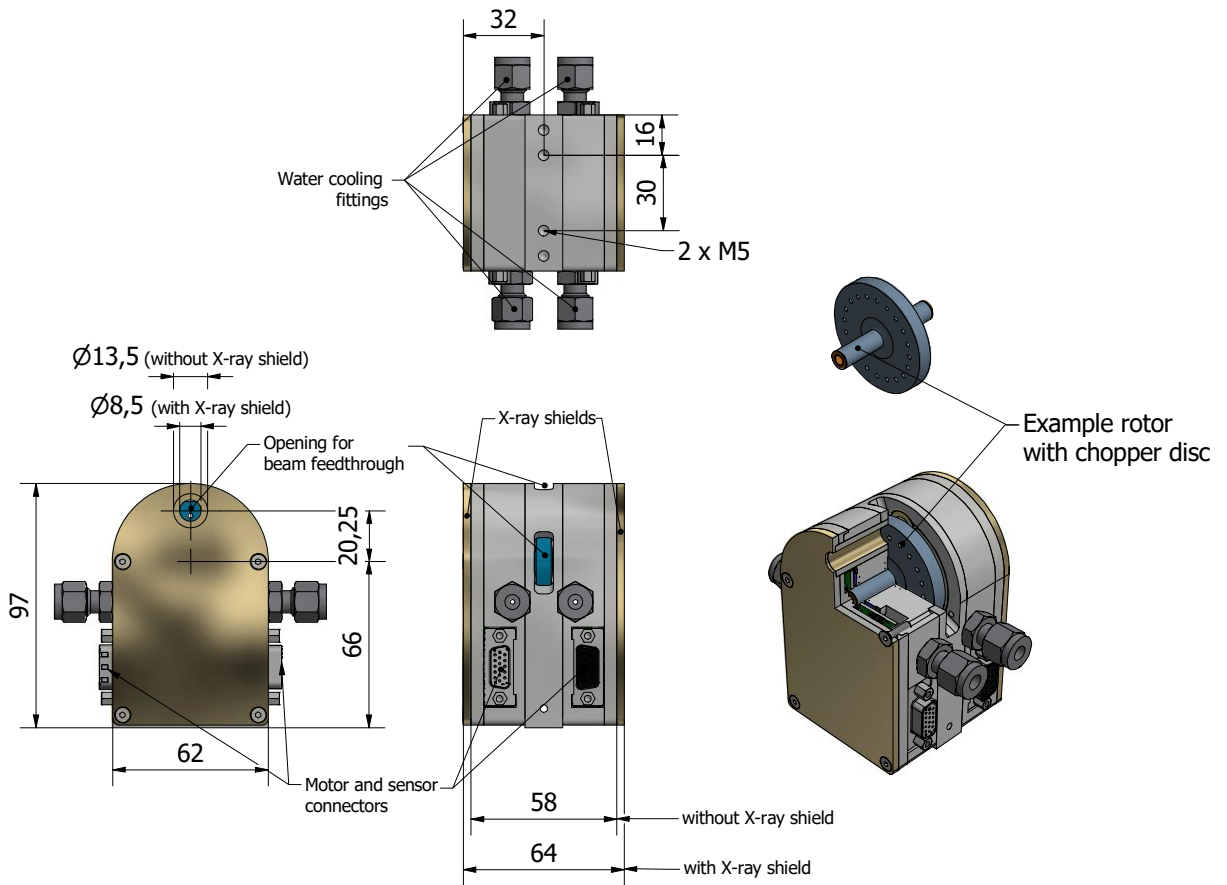
- Operation in vacuum or rare gas atmosphere possible
- Tantalum shielding configuration for operation in x-ray environment available
- Magnetically levitated rotor for vibration and wear free operation
- Maximum speed of 400,000 rpm
- Rotational speed stability < 200 ppm
- Custom specific rotor including chopper pattern on request



Specifications motor

Rated speed	400,000 rpm
Rated power	250 W
Rated torque	6 mNm
Weight	600 g
Cable length (for operation in air)	2 m
Rotational speed stability	< 200 ppm
Stator vibrations	< 10 mN per axis
Rotor displacements from center (orbit)	< 40 μ m
Rotor orbit jitter	< 8 μ m
Vacuum operation	10^{-5} mbar
Chopper applications, chopper frequency	< 250 kHz
Opening / closing time @ 4kHz	2.3 μ s
Power absorption rate of chopper for operation in x-ray	1 W

Drawing (in mm)



Options

Custom specific rotor

Custom specific casing modifications

Shielding for operation in x-ray

Controller CC-AMB-500/1000/1500 (supplied with motor)

Magnetic bearing controller

Motor controller

Control with PC-Software CelerotonPilot

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