

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 (Circumferential speed 200 m/s, beam width 0.5 mm)	2.3 μ s
Power absorption rate of chopper for operation in x-ray	1 W

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

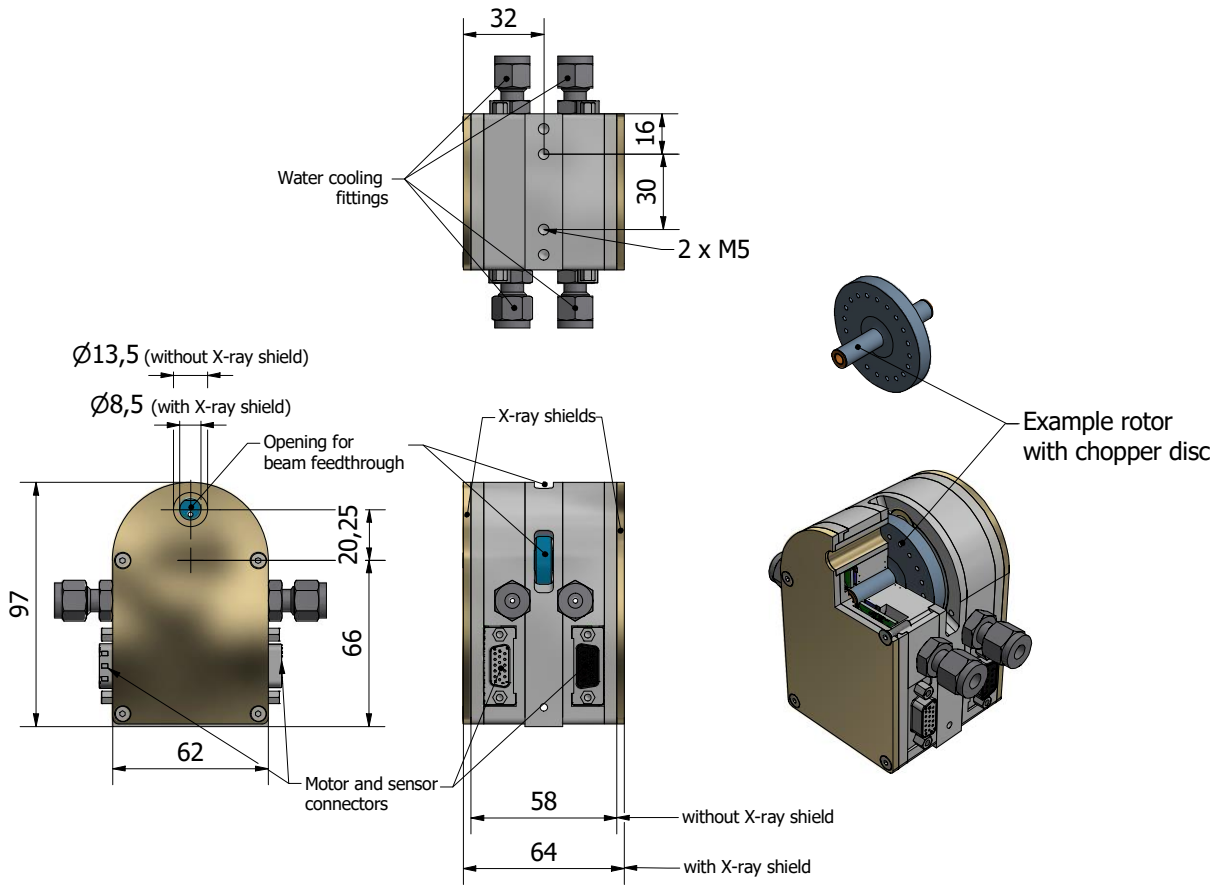
Ordering information

Article number

CM-AMB-400

Contact Celeroton

Drawing in mm



Depending on custom specific operation conditions and the corresponding Celeroton converter the operating range shown in this document may be different or may have additional limitations.

For technical details and further information, please refer to the user manual or contact Celeroton directly.