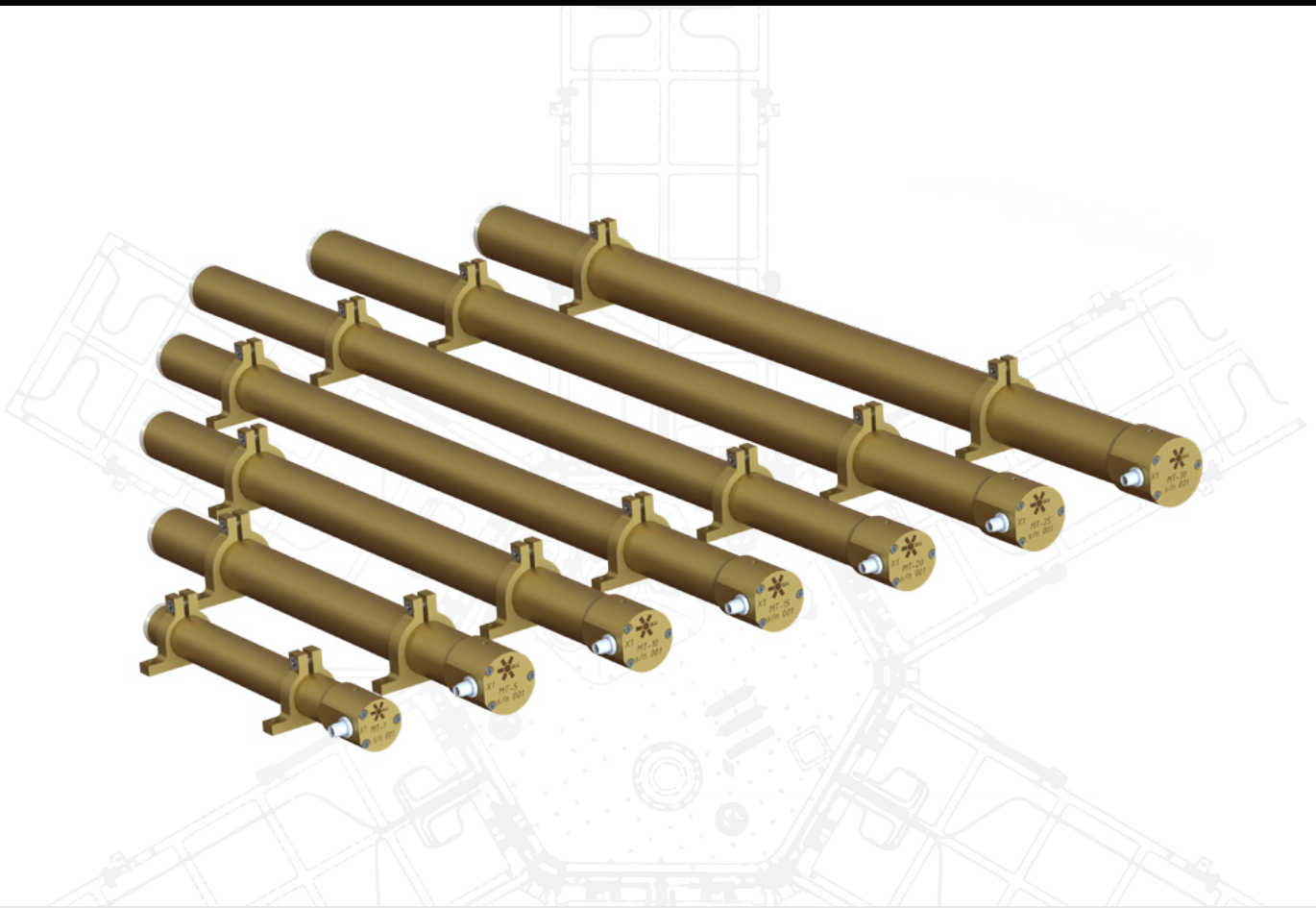


Magnetic torquer

SX-MT



Features:

- Special design and assembly technology allow to withstand high loads and provides high reliability during operation
- Special core and winding production technology ensure high compliance with declared parameters
- A wide range of magnetic torquers to choose from
- Magnetic momentum stability
- Mounting brackets can be modified according to Customer's requirements, providing flexibility for installation on a spacecraft

- A reliable connector allows you to repeatedly connect and disconnect the device during the preparation and assembly of the spacecraft
- Low consumption

Configuration (at Customer's choice):

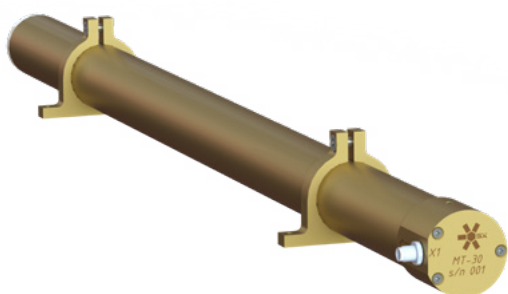
- Type of mount
- We can provide individual design and manufacture according to Customer's requirements

Article	Max. momentum, $A \cdot m^2$	Consumption, W	Mass, g	Diameter, mm	Dimensions, mm
MT-1	1	0.4	200	16	140 × 30 × 30
MT-5	5	0.6	350	20	220 × 50 × 35
MT-10	10	0.7	550	20	320 × 50 × 35
MT-15	15	0.8	650	20	400 × 50 × 35
MT-20	20	1.0	800	20	470 × 50 × 35
MT-25	25	1.2	1000	22	470 × 50 × 35
MT-30	30	1.8	1200	25	440 × 50 × 40

SX-MT are intended for use in conjunction with the Magnetic torquers control unit produced by SPUTNIX company to provide orientation and stabilization modes that do not require high accuracy and speed. As a rule, these are the modes that provide detumbling and reaction wheels unload.

Magnetic torquers require careful control during winding and assembly of the entire device, as well as high-quality core and winding wire. The experience and qualifications of our specialists provide a high level of torquers winding and assembly. We use specialized equipment and proven materials, as well as follow proven technological processes.

Minimum 3 magnetic torquers should be installed on the spacecraft.



Operating conditions

Operating temperature range	-30...+60°C
Mechanical vibration	12 g (request full test report)
Mechanical shock	50 g (request full test report)

Testing*

Tests	Options
Functional	QT, AT
Vibration	QT, AT (on demand)
Mechanical shock	QT
Thermal cycling	QT, AT (on demand)
Thermal vacuum	QT, AT (on demand)

QT – Qualifying tests

AT – Acceptance tests

*QT is performed on the design/qualification model

AT is performed on the unit to be shipped

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SPUTNIX LLC is a Russian private company manufacturing high-tech small satellite components and platforms, as well as ground equipment for smallsat testing, ground-based satellite stations, and equipment for aerospace education. The company is a resident of the Skolkovo Innovation Center.