

MOT Low Voltage Servo Motors

Combining high dynamics and power density, MOT synchronous servo motors provide an efficient and economical solution for low voltage applications. Paired with ZED low voltage servo drives, MOT servo motors offer excellent performance and high power density in a compact design.

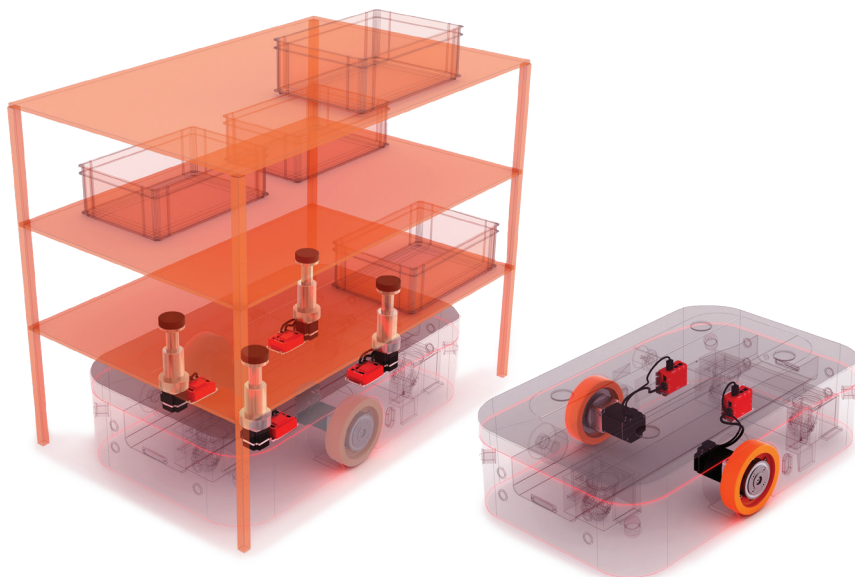
Optimal servo motor solutions for cost-effective low-voltage applications

The MOT series of permanent magnet low voltage servo motors includes four servo motors with a power range from 200 W to 750 W and a peak torque of up to 7.6 Nm.

The series' electromechanical design ensures a highly dynamic performance and low cogging. A range of motor feedback devices as well as winding, cable, and connector options are available on request and can be customized to the specific application needs.

Seamless integration with STXi's ZED servo drives for optimal performance

The ZED-MOT servo drive and motor bundle is optimized for best performance, offering advanced functionality, high power density, and seamless commissioning in a cost-effective package.



Key benefits

- Frame size: 60 – 80 mm
- 0.64 to 2.55 Nm rated output torque
- 200 to 800 W rated output power
- Low cogging
- Insulation class F
- Feedback: Incremental, SSI, BiSS
- IP54 protection class (IP65 optional)
- Optional holding brake
- CE and cUL certifications
- Customization available on request

Related products



softMC
Multi-Axis Motion
Controller



servSD
Servo Drive

MOT product offering

Each motor model can be ordered with the following options:

- Shaft: Smooth, keyway
- Brake: With brake, without brake
- Connector: 0.35m cable with mating connector for ZED servo drives

Rating and dimensions

Model	Flange Size (mm)	Voltage (VDC)	Power (W)	Rated Current (Arms)	Rated Torque (Nm)	Rated Speed (rpm)	Max. Speed (rpm)
SM02-6020	60	48	200	6.5	0.64	3000	5400
SM02-6040	60	48	400	12.0	1.27	3000	5000
SM02-8048	80	48	480	14.6	1.53	3000	5100
SM02-8080	80	48	800	22.6	2.55	3000	4800

Ordering information

	SM2	-	60	006	4	30	0	5	AB	0	M
SM2 Servo Motor											
Frame Size											
60	60 mm										
80	80 mm										
Torque											
006	0.64 Nm										
013	1.27 Nm										
015	1.53 Nm										
025	2.55 Nm										
DC Bus Voltage											
2	24 VDC (optional)										
4	48 VDC										
Rated Speed											
30	3000 rpm										
Shaft											
0	Smooth										
1	Toothed (optional)										
2	Keyway										
IP Rating											
4	IP40										
5	IP54										
Feedback											
AB	Incremental encoder AqB, Halls										
Brake											
0	No brake										
B	With brake										
Connector											
M	0.35 m cable with connector for servSD Power Feedback Brake										
F	0.35 m cable with flying leads										



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