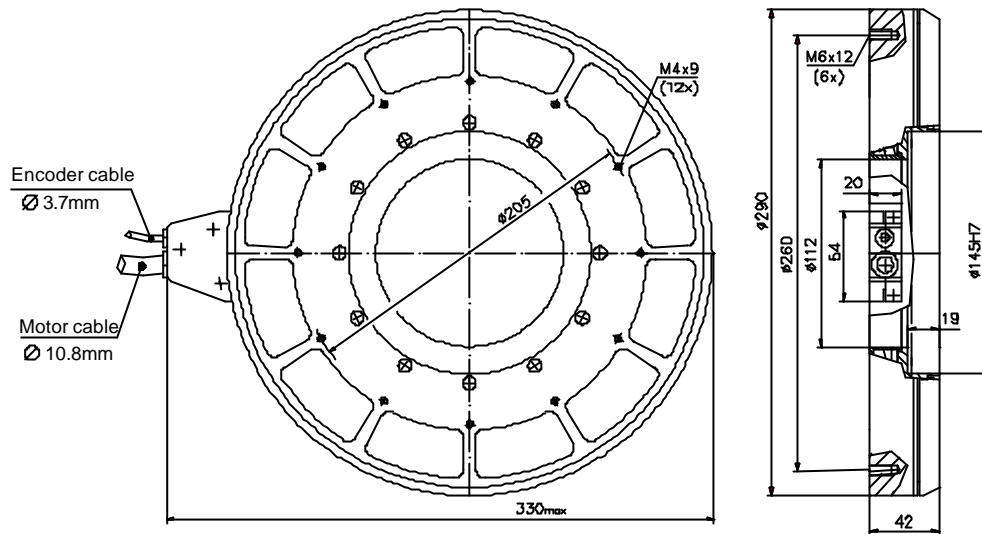


TORQUE MOTOR RSMR-T-24-237x25

Overall and join dimensions



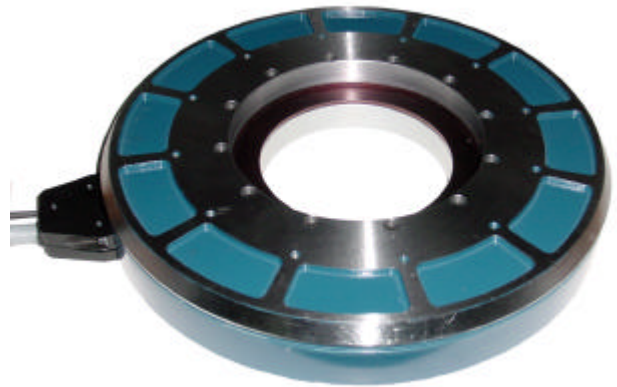
Short design description:

Torque motor (rotary synchronous motor) RSMR series consist of a fixed coil unit (stator or primary part) and rotated steel ring with glued permanent magnets (rotor or secondary part). The stator is composed of a coil unit that is encapsulated in thermally conductive epoxy. The smoothness of movement is achieved by sinusoidal commutation of currents in the coils. Motor has built-in sensors for overheating protection.

Advantages:

Low profile (height 42mm), hollow shaft ($\phi 112mm$), no mechanical transmissions, high precision, repeatability and resolution, no backlash, smooth movement.

Application: semiconductor manufacturing, pick and place machines, indexing tables.



SPECIFICATION OF RSMR-T24-237x25-C-...		GS	GT
Number of poles pairs 2P			31
Peak torque Mp (coil at 20°C)	Nm		110
Continuous torque Ma (coil at 120°C)	Nm		42
Bearing friction torque Mb	Nm		0,3
Peak current at Mp	Arms	14,0	24,2
Continuos current at Ma	Arms	5,1	8,7
Inductance L	mH	23,0	7,6
Resistance R	Ohm	4,3	1,4
Maximum velocity Np at 310 VDC and Mp	rpm	180	330
Maximum velocity Na at 310 VDC and Ma	rpm	325	565
Rotor moment inertia	kg•m ²		0,07
Motor weight	kg		10
Maximal user payload	kg		65
Axial / radial runout	micron		30/20
Encoder output signal			1Vpp
Number of encoder lines			5400
Position accuracy	arc.sec.		45
Resolution	arc.sec.		0,2
Repeatability	arc.sec.		5
Hollow shaft	mm		112

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