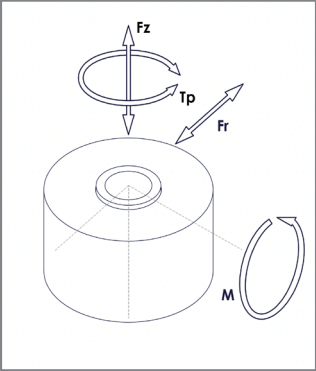


MRT06
ROTARY TABLE

Maximum angular speed: 426 rpm
Maximum angular acceleration: 10670 rad/s²
Operating voltage: 600 Vdc, max. 900 Vdc

Load Diagram



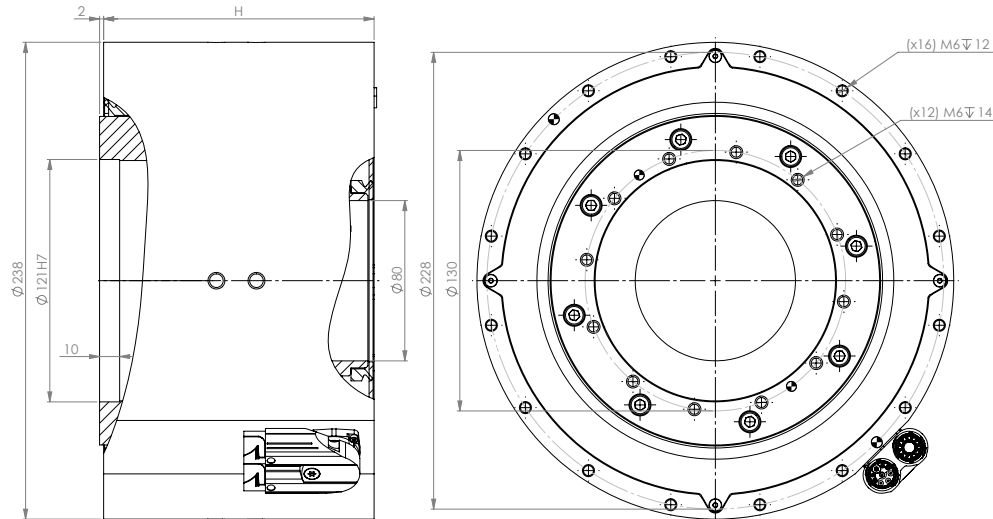
DIMENSIONS AND SPECIFICATIONS

	Parameter	Remarks	Sym	Unit	MRT06			
Performance	Housing type (standar or special)				S	A	S	A
	Winding type				II65N		II85N	
	Motortype, max voltage ph-ph				3-phase synchronous Iron core, 380 V _{ac rms} (560V _{dc})			
	Peak torque @ 20°C/s increase	Magnet @ 25°C	T _p	Nm	175		260	
	Continuous torque	Coil @ 110°C	T _c	Nm	68		105	
	Stall torque	Coil @ 110°C	T _c	Nm	48		74	
	Maximum speed	@T _c 560Vdc	N _{max}	rpm	426		283	
	Motor torque constant	Up to I _c	K _t	Nm/A _{rms}	8.7		13.1	
	Motor constant	Coils @ 25°C	K _m	(Nm) ² /W	6.5		10.9	
	Peak current	Magnet @ 25°C	I _p	A _{rms}	27.2		26.8	
	Maximum continuous current	Coils @ 100°C	I _c	A _{rms}	7.8		8	
	Poles		N _{mgn}	nr	26			
Thermal	Temperature cut-off / sensor			Optional PTC 110/ NTC 10kΩ				
Mechanical	Max. axial load		Fz	N	5100			
	Max. radial load		Fr	N	2245			
	Max. moment load		M	Nm	2000			
	Stator OD			mm	238			
	Rotor ID			mm	80/34			
	Height		H	mm	135		155	
	Rotor inertia			Kg·cm ²	141	140	250	293
	Total mass			Kg	12.7	12.6	17.4	17.3

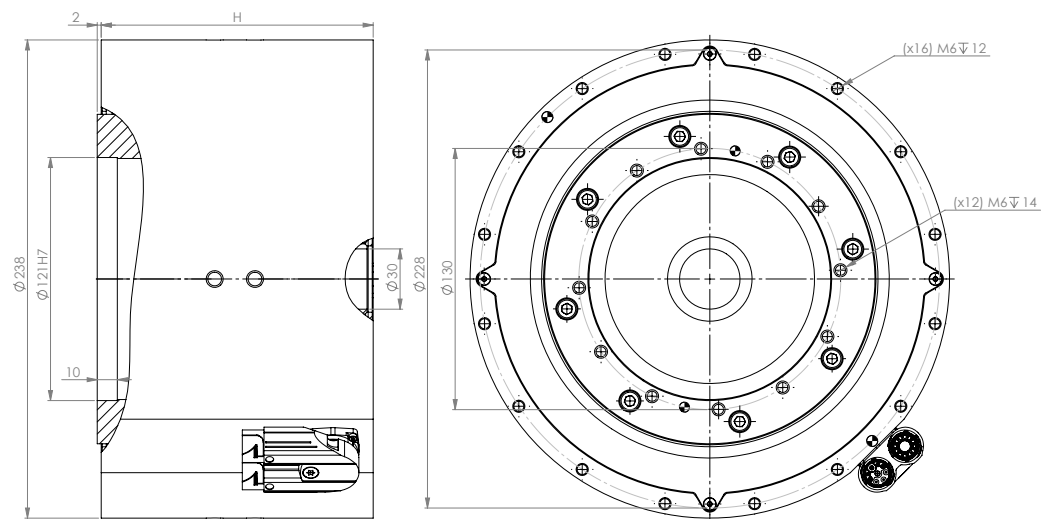
MRT06

TECHNICAL DESCRIPTION

MRT06S STANDARD HOUSING:



MRT06A SPECIAL HOUSING:



Drawing for reference only. Please ask for ready 3D files.

ACCURACY AND PRECISION

Mechanical Accuracy

Axial runout: Standard 25 μ m, High accuracy 6 μ m
Radial runout: Standard 25 μ m, High accuracy 6 μ m

Encoder Accuracy 0A036004C/0A036041U

Encoder grating period accuracy: ± 18 arcsec¹⁾
Encoder position error: ± 7.5 arcsec²⁾

Encoder Accuracy 3H0105E1S

Encoder grating period accuracy: ± 40 arcsec¹⁾
Encoder position error: ± 3 arcsec²⁾

Encoder Accuracy 3A0360E1S

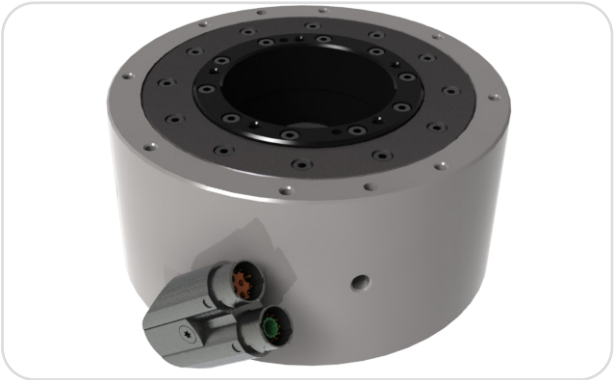
Encoder grating period accuracy: ± 18 arcsec¹⁾
Encoder position error: ± 3 arcsec²⁾

¹⁾ Absolute Accuracy of Encoder

²⁾ Repeatability of Encoder

MRT06
CONNECTORS OPTIONS

■ **Connector YTEC**

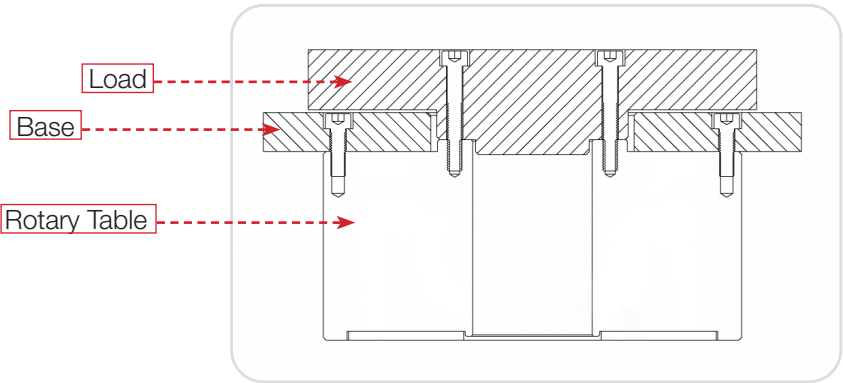


■ **Connector Hybrid M23**
- Only for EnDat2.2 (B&R)

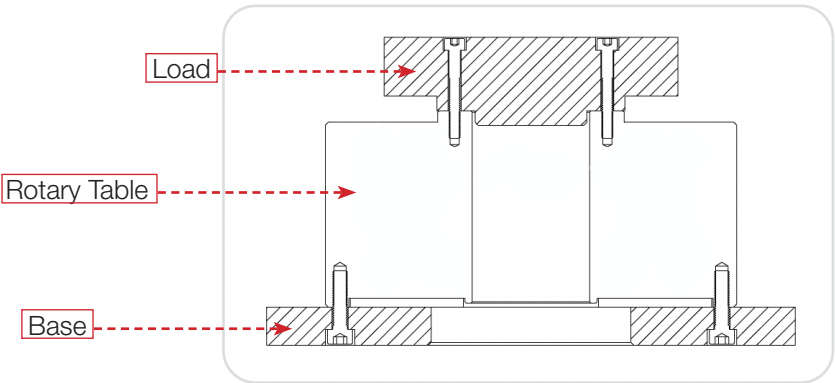


FIXATION OPTIONS

On the top



On the base



MRT06 ORDER CODE

Type model

MRT - Compact rotary table with torque motor and hollow shaft.

MRT06 - II - - - - - A - T - - - 000

Housing

Type:
S - Standard
A - Special

Motor size

Peak torque, Nm (aircooled)¹⁾:
65 - 175 Nm
85 - 260 Nm
05 - NA

Winding

Motor winding:
N - Standard winding
X - No motor

Connectors

Type:
00A - Base Y-TEC connector
09A - Hybrid M23 connector | only for EnDat2.2 (B&R)

Crossed Roller Bearing Accuracy

Axial and Radial Runout:
01 - Standar accuracy 25µm
02 - High accuracy 6µm

Lubrication

Grease type:
S - Standard

Encoder

Incremental:

0A036004C - Incremental inductive 1Vpp (sin/cos) 9.000 inc/turn | only Housing S
0A036041U - Incremental inductive TTL 360.000 inc/turn | only Housing S

Absolute:

3H0105E1S - Absolute inductive EnDat2.2+Safety, 1.048.576 inc/turn | only Housing A
5S0256H1U - Absolute inductive EnDat2.2+Safety 3.600.000 inc/turn | only Housing S

¹⁾ Depending on the application and ambient temperature