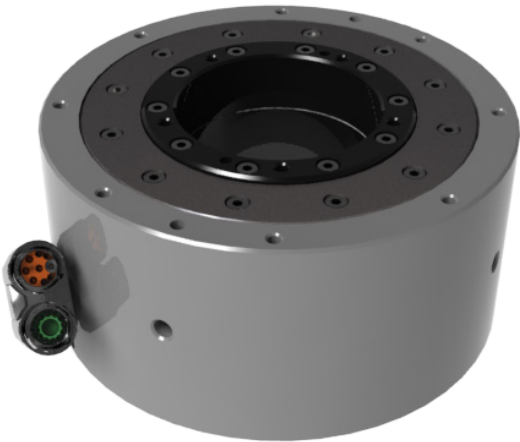
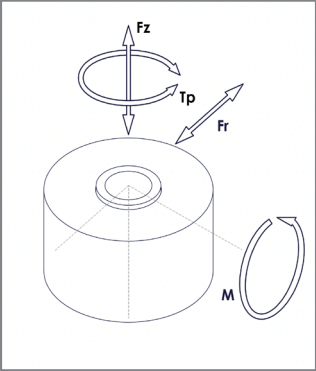


MRT04
ROTARY TABLE

Maximum angular speed: 3045 rpm
Maximum angular acceleration: 18870 rad/s²
Operating voltage: 600 Vdc, max. 900 Vdc

Load Diagram



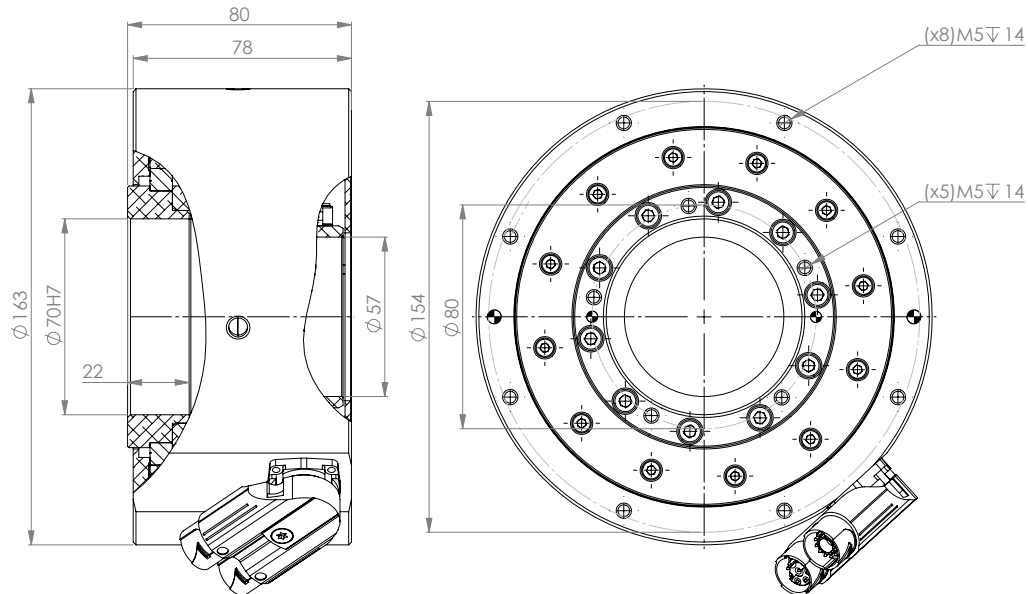
DIMENSIONS AND SPECIFICATIONS

	Parameter	Remarks	Sym	Unit	MRT04	
Performance	Housing type (standar or special)				S	A
	Winding type				II34N	
	Motortype, max voltage ph-ph				3-phase synchronous Iron core, 230 V _{ac rms} (320V _{dc})	
	Peak torque @ 20°C/s increase	Magnet @ 25°C	T _p	Nm	24.7	
	Continuous torque	Coil @ 120°C	T _c	Nm	13.0	
	Maximum speed @ max. voltage	@T _c	N _{max}	rpm	843	
	Motor torque constant	Up to I _c	K _t	Nm/A _{rms}	2.51	
	Motor constant	Coils @ 25°C	K _m	(Nm) ² /W	0.394	
	Peak current	Magnet @ 25°C	I _p	A _{rms}	13.3	
	Maximum continuous current	Coils @ 110°C	I _c	A _{rms}	5.2	
	Poles		N _{mag}	nr	28	
Thermal	Temperature cut-off / sensor				Optional PTC 1kΩ / NTC	
Mechanical	Max. axial load		Fz	N	1575	
	Max. radial load		Fr	N	695	
	Max. moment load		M	Nm	382	
	Stator OD			mm	163	163/191
	Rotor ID			mm	70/57	
	Height		H	mm	78	95
	Rotor inertia			Kg·cm ²	13.1	18.1
	Total mass			Kg	4.8	5.6

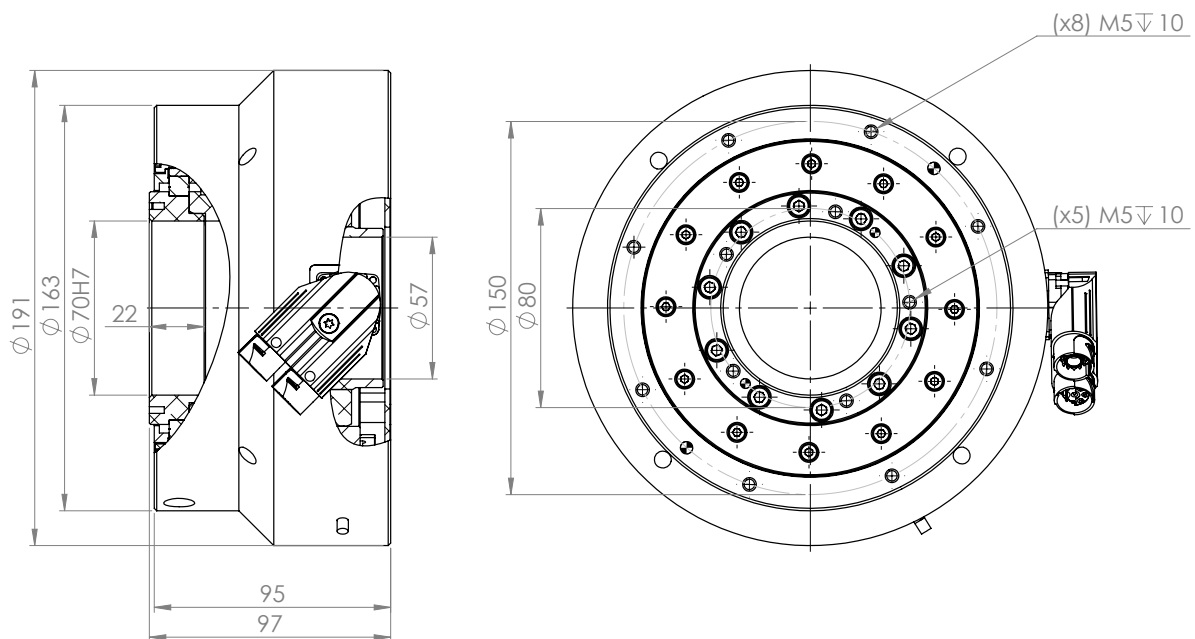
MRT04

TECHNICAL DESCRIPTION

MRT04S STANDARD HOUSING:



MRT04A SPECIAL HOUSING:



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

ACCURACY AND PRECISION

Mechanical Accuracy

Axial runout: Standard 15 μ m, High accuracy 5 μ m
Radial runout: Standard 15 μ m, High accuracy 5 μ m

Encoder Accuracy 3A0360E1H

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

Encoder Accuracy 5S0256H1U

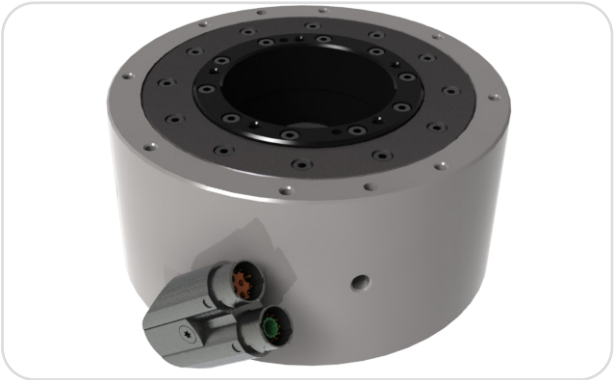
Encoder grating period accuracy: ± 3.6 arcmin¹⁾
Encoder position error: ± 18 arcsec²⁾

¹⁾ Absolute Accuracy of Encoder

²⁾ Repeatability of Encoder

MRT04
CONNECTORS OPTIONS

■ **Connector YTEC**

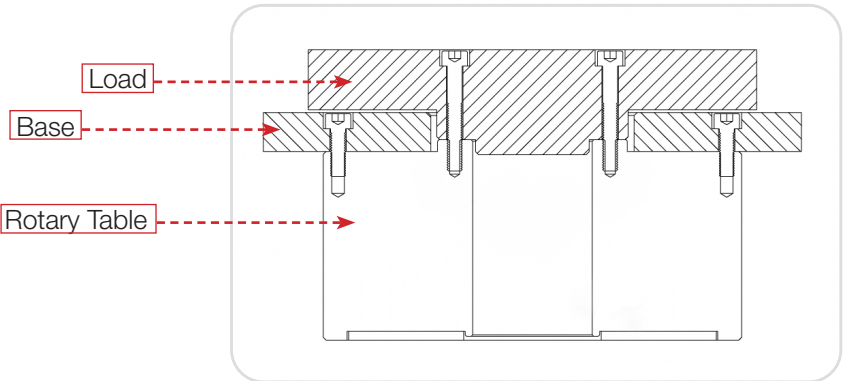


■ **Connector Hybrid M23**
- Only for EnDat2.2 (B&R)

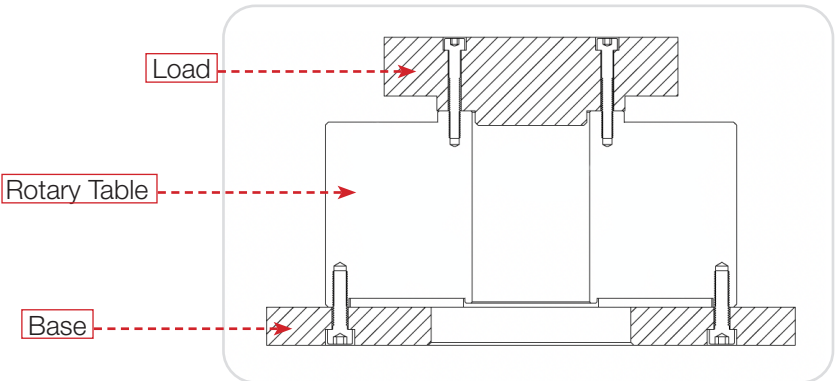


FIXATION OPTIONS

On the top



On the base



MRT04 ORDER CODE

Type model

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

MRT04 - II - - - - - A - T - - - 000

Housing

Type:
S - Standard
A - Special

Motor size

Peak torque, Nm (aircooled)¹⁾:
17 - NA **60** - NA
25 - NA **92** - NA
34 - 24.7 Nm

Winding

Motor winding:
N - Standard winding
Y - High-speed winding
I - Low voltage 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 15µm
02 - High accuracy 5µm

Lubrication

Grease type:
S - Standard

Encoder

Incremental:
- Not Available

Absolute:

3A0360E1H - Absolute inductive EnDat2.2, 3.600.000 inc/turn | only Housing A
5S0256H1U - Absolute magnetic Hiperface, 4.096 inc/turn | only Housing S

¹⁾ Depending on the application and ambient temperature