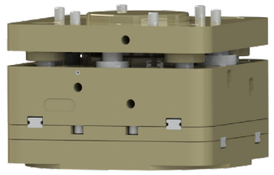
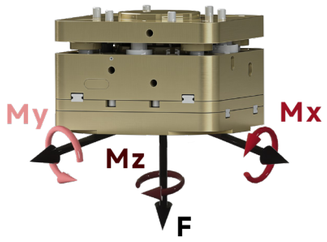
Compensation unit serials FOUK-F

F20-160





Mx max 200Nm

My max 200Nm

Mz max 100Nm

F max 800N

F 20 - 160 - XY - P

serial No.	stroke	model	No. of axes		Position memory	
F floating compensation			dual-axis	XY	-0	without
			tri-axis	XYZ	-P	with Position memory
			single axis	Z		

For single axis uses	Magnetic proximity sensor		For dual axis uses	Magnetic proximity sensor	
	D-M9NAL	Magnetic, NPN, 3core3m		MM08-60ANS-ZUK	Magnetic, NPN, 3core3m
	D-M9PAL	Magnetic, PNP, 3core3m		MM08-60APS-ZUK	Magnetic, PNP, 3core3m

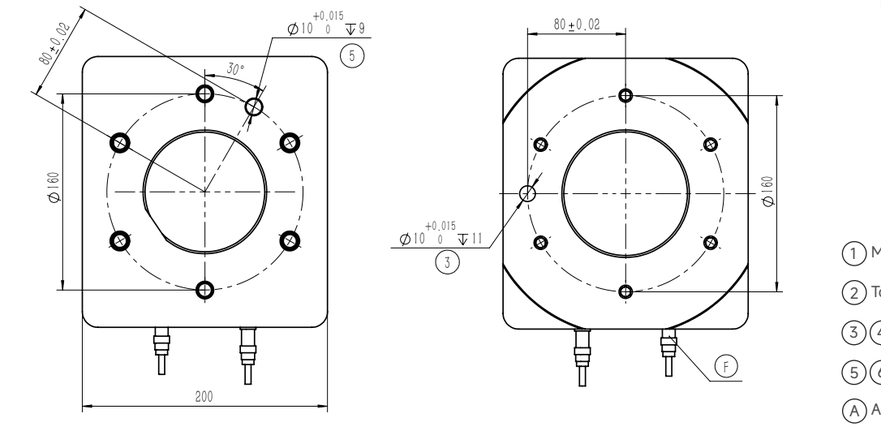
*Each unit is equipped with two sensors to monitor two positions.
See the sensor appendix for details.

Specifications	F20-160-XYZ-0	F20-160-XYZ-P	F20-160-XY-0	F20-160-XY-P	F20-160-Z-0	Unit
Weight	14.5	14.5	10.5	10.5	11.5	kg
XY compensation	± 10	± 10	± 10	± 10		mm
Z compensation	14	14			14	mm
Recommended handling weight, vertical	60	60	60	60	60	kg
Recommended handling weight, horizontal	40	40	40	40	40	kg
Locking Force	1800	1800	1800	1800		N
Position memory piston force		2900		2900		N
Max. radial force, position storage		309		309		N
Piston Force (Z-axis)	1900	1900			1900	N
Min. spring force	640	640			640	N

Ambient temperature range/°C	5~60	Air connection specification	G1/8
Operating pressure range/bar	3~8	Repeataccuracy/mm	± 0.1
Robot-side connection	ISO 9409-1-160-6-M10	Tool-side connection	ISO 9409-1-160-6-M10

F20-160-XYZ

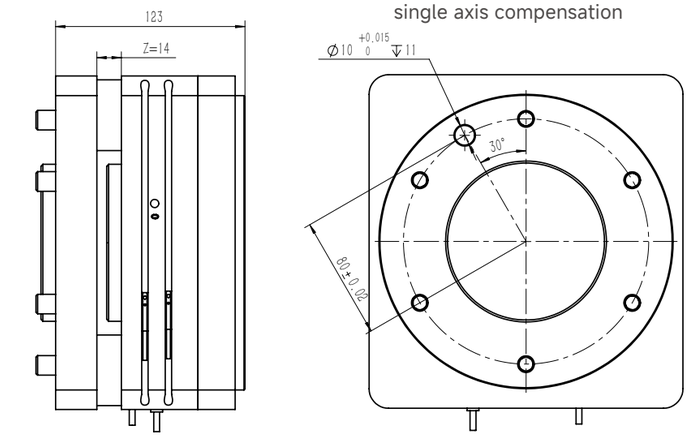
Three-axis compensation



1. Mounting screws, robot side (Std.)
2. Tool-side mounting holes
3. 4 Tool side locating hole
5. 6 Robot-side locating hole
A. Air connection unlocked
B. Air connection locked
C. Air connection position memory XY
D. Air connection locked Z
E. Magnetic proximity sensor position (Zaxis)
F. Magnetic proximity sensor position (XY-axis)

F20-160-Z

single axis compensation



F20-160-XY

dual- axis compensation