



sealed gripper

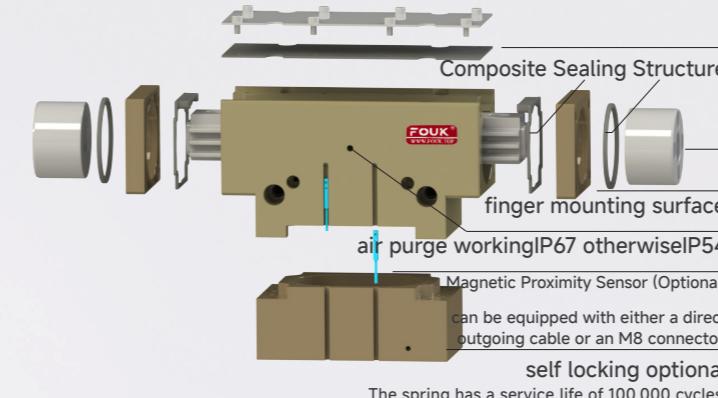
**TRF/TZF sealed two/ three fingers serials**

FOUK-IP67 high protection

IP67 High-Protection Gripper features a composite sealing structure, offering the highest dust protection level and enabling short-term immersion in water. The toothed rail ensures strong load-bearing capacity.

IP67 serial products
instructional video**IP67 class protection**

This gripper series is more suitable for use in high pollution working conditions.

**Composite Sealing Structure**

Multiple materials are used for composite sealing, ensuring stable performance output under harsh working conditions.

Multi-Tooth Guide Rail Structure Design

Drawing on the chuck structure, the three-tooth guide rail has higher load-bearing capacity and longer service life compared with the traditional T-slot rail.

Wedge Transmission Method

Benefiting from the excellent transmission structure, it features both high load capacity and high centering accuracy.

S

stroke per jaw
6/13/16/30/6/8mm

m

work piece
1-18.9kg

m

product weight
0.4-12kg

A

models
数量: 6

Name	Stroke per jaw/mm	Weight/kg	air purge allowable pressure/bar	workpiece weight/kg	Page
TRF28	6	0.4	0.2~0.5	1	90
TRF57	13	2.1	0.2~0.5	5	92
TRF72	16	3.7	0.2~0.5	7.8	94
TRF117	30	12	0.2~0.5	18.9	96
TZF42	6	0.7	0.2~0.5	2.6	98
TZF55	8	1	0.2~0.5	4.5	100

P: Compressed air pressure [bar]

Gas consumption: volume of gas consumed at normal pressure(0.5MPa)

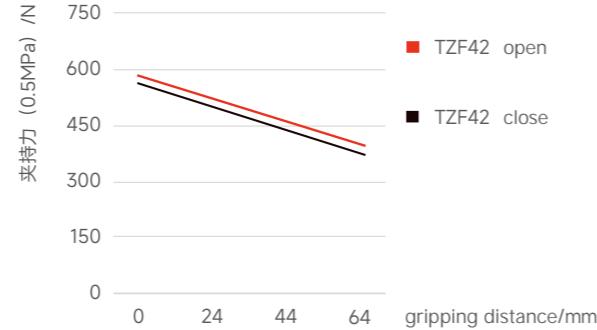
IP67 sealed serial FOUK-TZF

TZF42

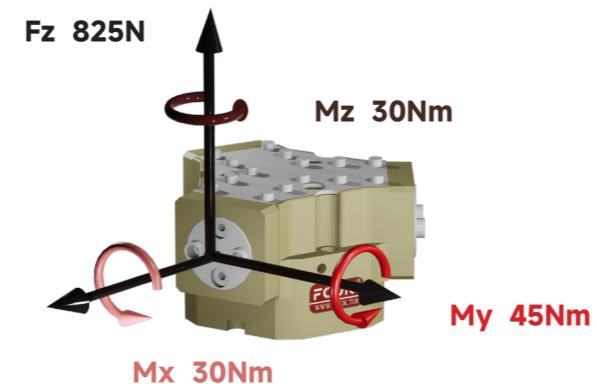
TZF42



gripping force curve

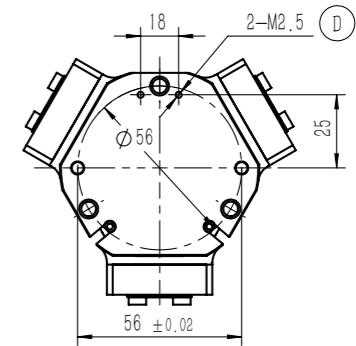
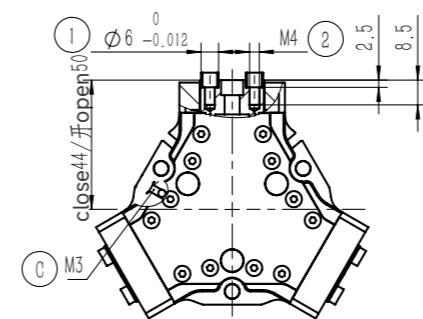
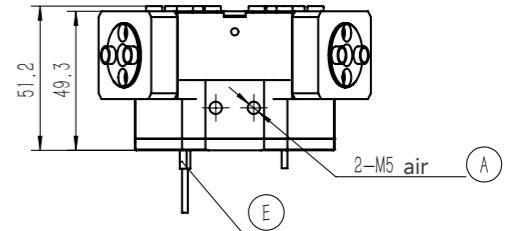
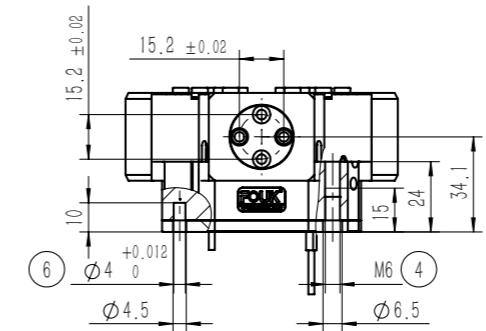


Static Bearing Torque



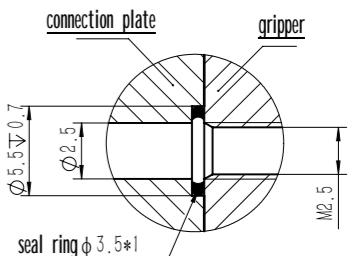
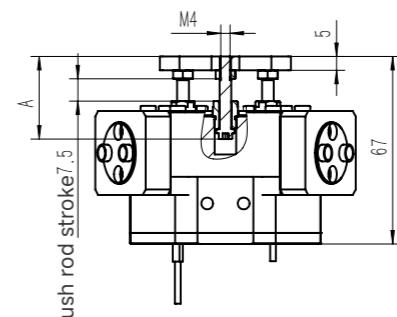
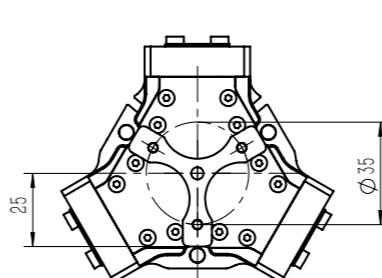
Specification	TZF42	Unit
stroke per jaw	6	mm
product weight	0.7	kg
max gripping distance	60	mm
Theoretical Max. Gripping Force: Opening/Closing	116P/106P	N
Air Consumption per Opening-Closing Cycle	0.14	L
air purge allowable pressure	0.2~0.5	bar
work piece weight	2.6	kg
opening/closing time	0.03/0.03	s
max per finger weight/kg	0.3	
repeat accuracy/mm	± 0.02	
air pressure range/bar	3-8	
air connection feature	M5	
temperature range/°C	-5~60	
IP class	67	

air purge working can reach IP67
otherwise IP54



TZF42-C29

Push Rod Length A: 29.5mm, Feeding Function,
Minimum Thrust of Push Plate: 15N



- ① Finger Locating Pin Bushing (Standard)
- ② finger mounting hole
- ④ gripper mounting hole
- ⑥ mounting locating pin hole

- Ⓐ air connection
- Ⓒ air purge/grease injection
- Ⓓ Hose free connection(B version)
- Ⓔ Magnetic Proximity Sensor Position

Note: To achieve IP67 protection, the positive pressure air purge Ⓐ must be continuously supplied with compressed air at 0.02–0.05 MPa; otherwise, only IP54 protection is available.

FOUK-TZF

TJ
TP
TG
TE
QTC
HT

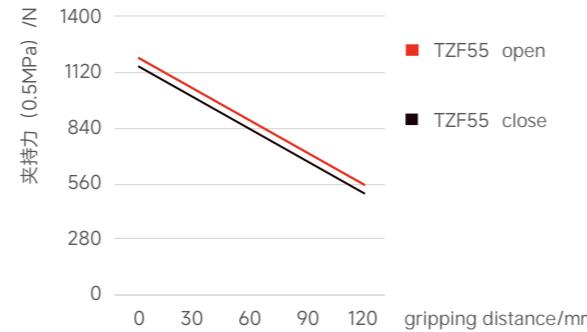
IP67 sealed serial FOUK-TZF

TZF55

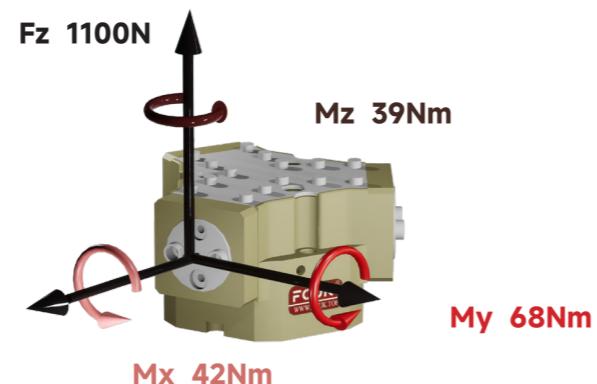
TZF55



gripping force curve

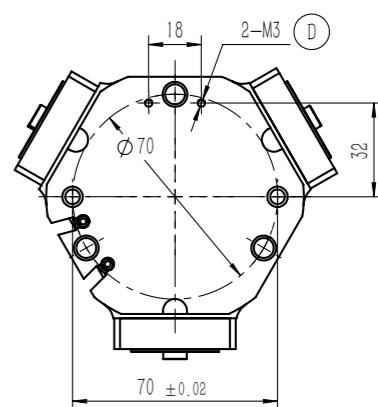
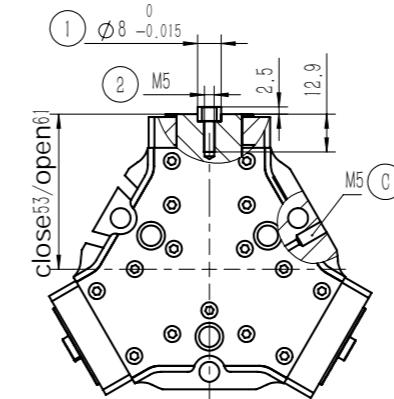
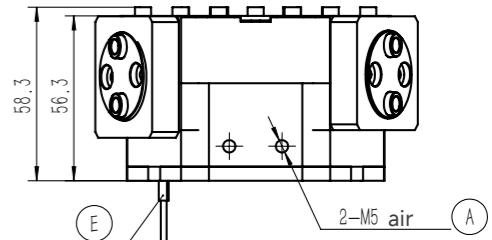
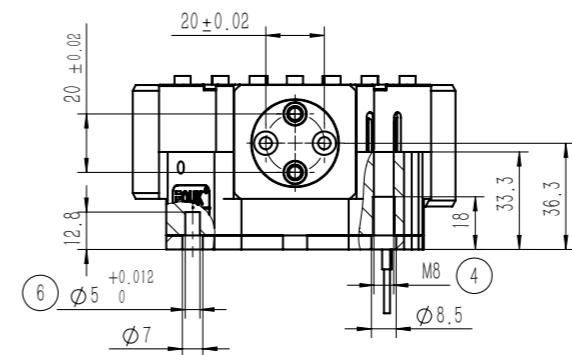


Static Bearing Torque



Specification	TZF55	Unit
stroke per jaw	8	mm
product weight	1	kg
max gripping distance	80	mm
Theoretical Max. Gripping Force: Opening/Closing	230P/200P	N
Air Consumption per Opening-Closing Cycle	0.37	L
air purge allowable pressure	0.2~0.5	bar
work piece weight	4.5	kg
opening/closing time	0.05/0.05	s
max per finger weight/kg	0.5	
repeat accuracy/mm	± 0.02	
air pressure range/bar	3~8	
air connection feature	M5	
temperature range/°C	-5~60	
IP class	67	

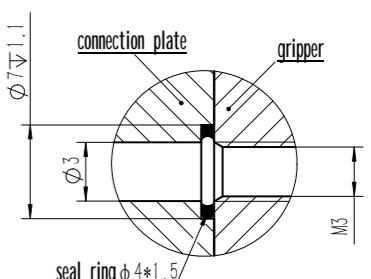
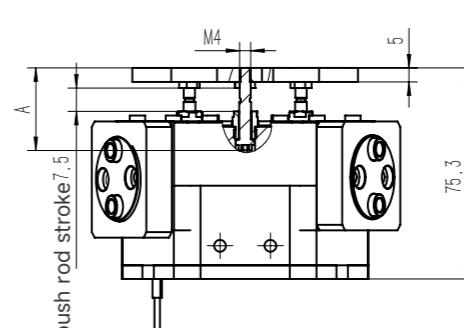
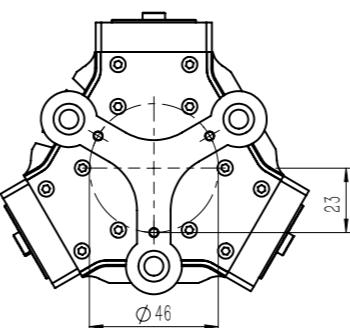
air purge working can reach IP67
otherwise IP54



TZF55-C29

TZF55 hose free airconnection

Push Rod Length A: 29.5mm, Feeding Function,
Minimum Thrust of Push Plate: 15N



- ① Finger Locating Pin Bushing (Standard)
- ② finger mounting hole
- ④ gripper mounting hole
- ⑥ mounting locating pin hole

- (A) air connection
- (C) air purge/grease injection
- (D) Hose free connection(B version)
- (E) Magnetic Proximity Sensor Position

Note: To achieve IP67 protection, the positive pressure air purge (C) must be continuously supplied with compressed air at 0.02–0.05 MPa; otherwise, only IP54 protection is available.

FOUK-TZF

TJ
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TG
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QTC
HT

FR

TRL

FZ

TZL

TF