

Truss System Disc-type Gripping Unit Series FOUK-TG

FZ42-78

TG25


TG 25 - FZ42 - 78 - 0° - ZG25
Serial No. Cylinder bore

FZ Gripping unit

Model of finger cylinder

Toothed three-finger gripper	FZ42-78
Toothed parallel gripper	FR36-96

Flexible compensation unit

Standard installation	0°
Three-finger flip	180°
Two-finger flip	90°

No characters	Without flexible compensation
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Inductive proximity sensor

Used for	IPSD-2NS-0823-L3	Inductive, NPN, 3-core3m
for TG	IPSD-2PS-0823-L3	Inductive, PNP, 3-core3m

Inductive proximity sensor

Used for	IPSD-2NS-0823-L3	Inductive, NPN, 3-core3m
gripper	IPSD-2PS-0823-L3	Inductive, PNP, 3-core3m

Magnetic proximity sensor

D-M9NAL	Magnetic, NPN, 3-core3m
D-M9PAL	Magnetic, PNP, 3-core3m

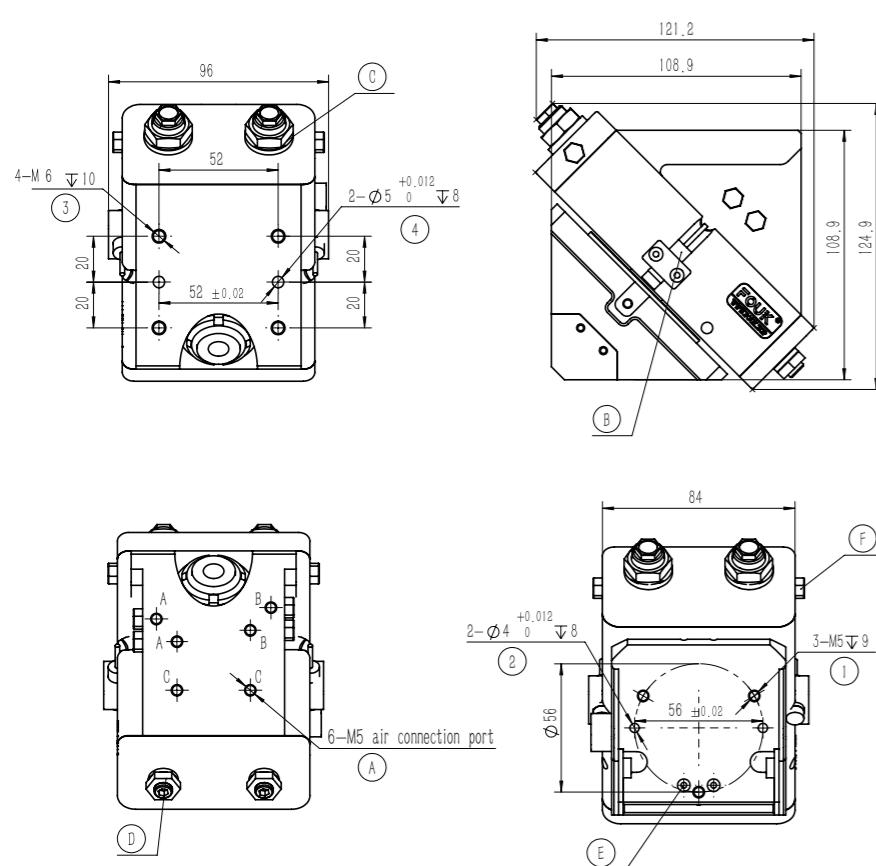
*It is recommended to use two sensors for each rotating unit, and it is recommended to use two sensors for each gripper. For details, see the sensor appendix.

Product attributes	Parameter Value	Unit
Single stroke	6	mm
Product weight	0.51	kg
Maximum allowable gripping distance	90	mm
Specification of air connection port	M5	
Theoretical maximum gripping force: opening/closing	116P/106P	N
Opening/closing time	0.03/0.03	s
Repeated gripping accuracy	± 0.02	mm
Operating air pressure range	3~8	bar
Temperature range of application	-5~60	°C
IP rating	40	

Product attributes	TG25	Unit
Theoretical torque	0.96 × P	N·m
Suitable Workpiece Load for Single-Side Finger Cylinder	1.7	kg
Maximum working load of single-side finger cylinder	2	kg
Product weight	2.4	kg
Rotation time	0.4~1.1	sec
Specification of buffer unit	M14 Hydraulic buffer	
Repeated positioning accuracy	± 0.05	mm
Operating air pressure	3~8	bar
Air connection port of air distribution pipe	M5	
Operating temperature range	-5~60	°C
IP rating	65	

Product attributes	Parameter Value	Unit
Single stroke	8	mm
Product weight	0.5	kg
Maximum allowable gripping distance	110	mm
Specification of air connection port	M5	
Theoretical maximum gripping force: opening/closing	100P/92P	N
Opening/closing time	0.035/0.035	s
Repeated gripping accuracy	± 0.02	mm
Operating air pressure range	3~8	bar
Temperature range of application	-5~60	°C
IP rating	40	

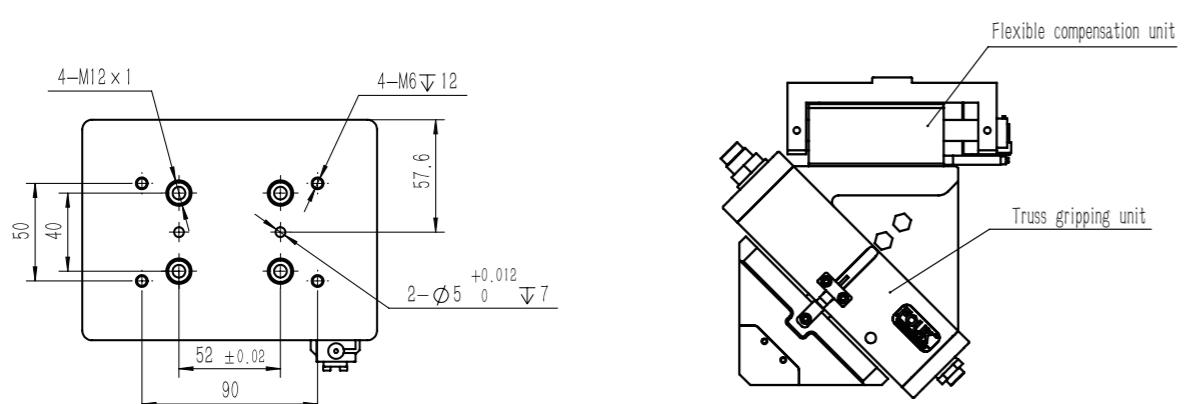
TG25



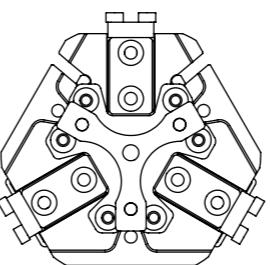
- ① Gripper mounting hole
- ② Gripper mounting and positioning hole
- ③ Mounting hole of swing cylinder
- ④ Mounting and positioning hole of swing cylinder
- ⑤ Compressed air connection port
- ⑥ Location of inductive proximity sensor
- ⑦ Hydraulic buffer
- ⑧ Swing cylinder rotation limit
- ⑨ Air passage hole in gripper

Note: A and B are gripper air connection ports
C is the air connection port of the swing cylinder

TG25-ZG25

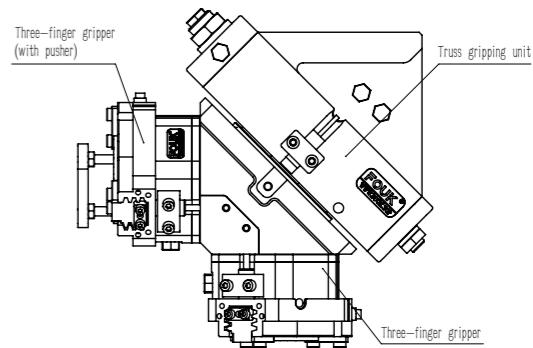


TG25-FZ42-78-0°Standard installation

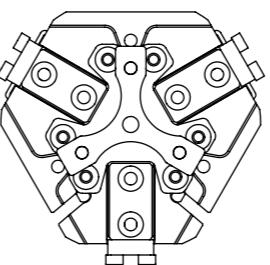


The mounting angle is 0°

Note: A set of pusher module is provided for the standard version.

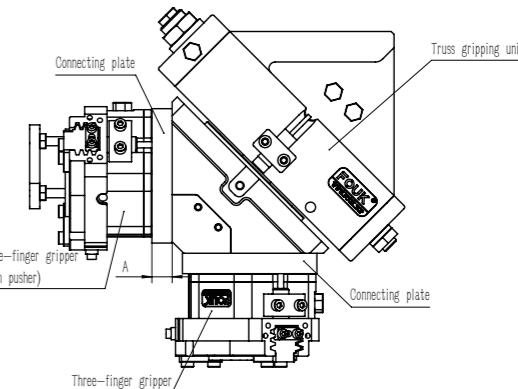


TG25-FZ42-78-180°Finger cylinder flip

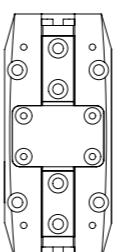


The mounting angle is 180°

Note: The connecting plate is designed with different thickness A according to different requirements; and a set of pusher module is provided for the standard version.

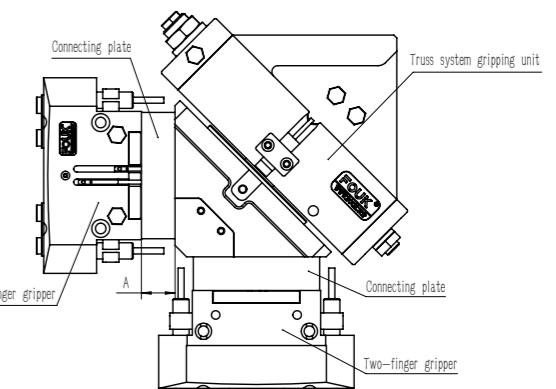


TG25-FR36-96-0°Standard installation

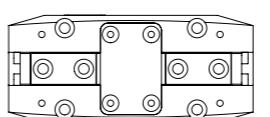


The mounting angle is 0°

Note: The connecting plate is designed with different thickness A according to different requirements.



TG25-FR36-96-90°Finger cylinder flip



The mounting angle is 90°

Note: The connecting plate is designed with different thickness A according to different requirements.

