

Truss System Disc-type Gripping Unit Series FOUK-TG

FZ90-155

TG50



TG 50 - FZ90 - 155 - 0°

Serial No. Cylinder bore

FZ Gripping unit

Model of finger cylinder

Toothed three-finger gripper	FZ90-155
Toothed parallel gripper	FR72-192

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

Magnetic proximity sensor

Used for TG	MZC1-2V2NS-FU0	Magnetic, NPN, 3-core2m
	MZC1-2V2PS-FU0	Magnetic, PNP, 3-core2m

Inductive proximity sensor

Used for gripper	IPSD-2NS-0831/0823-L3	Inductive, NPN, 3-core3m
	IPSD-2PS-0831/0823-L3	Inductive, PNP, 3-core3m

Magnetic proximity sensor

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

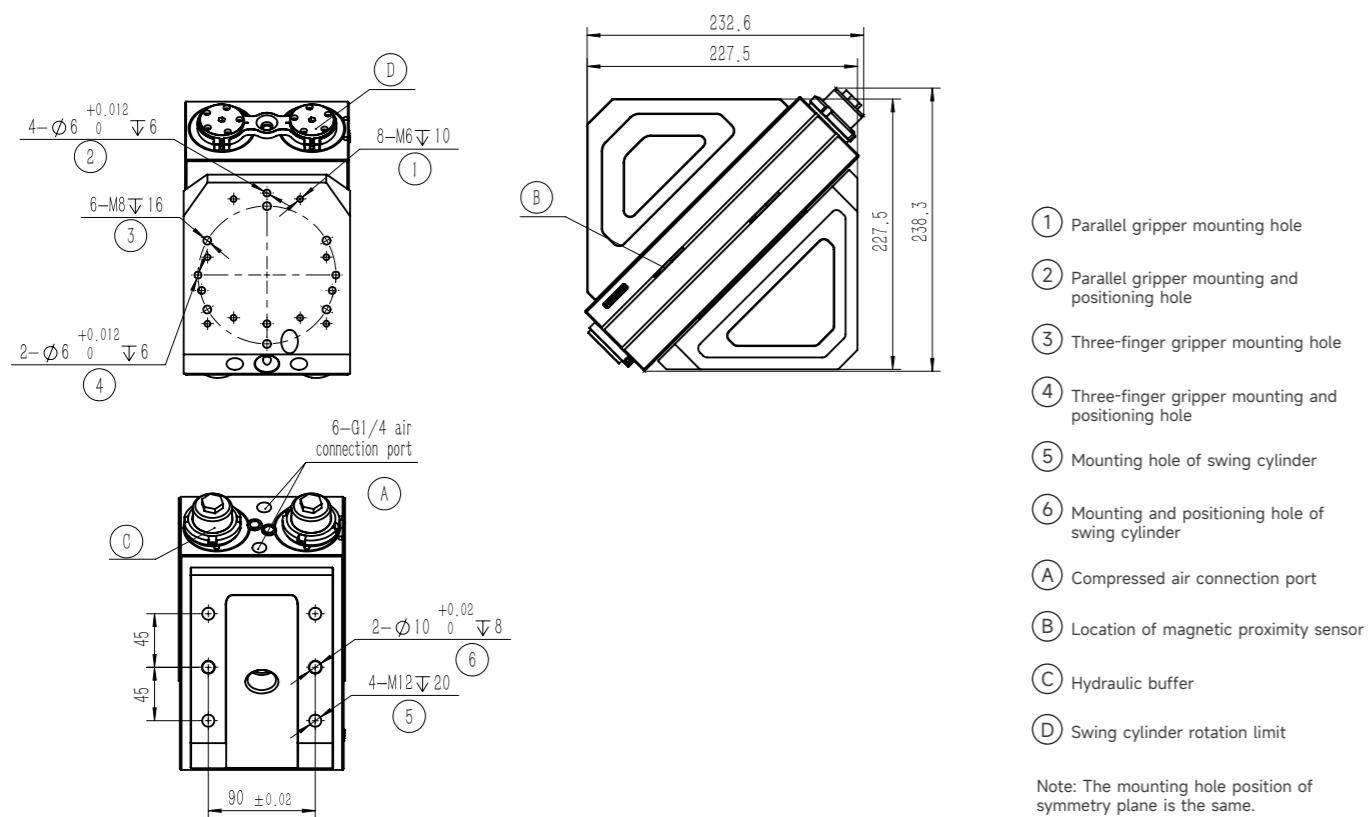
*It is recommended to use two sensors for each rotating unit, and it is recommended to use two sensors for each gripper. For details, see the sensor appendix.

Product attributes	Parameter Value	Unit
Single stroke	13	mm
Product weight	2.7	kg
Maximum allowable gripping distance	170	mm
Specification of air connection port	G1/8	
Theoretical maximum gripping force: opening/closing	515P/490P	N
Opening/closing time	0.2/0.2	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	TG50	Unit
Theoretical torque	7.07 × P	N·m
Suitable Workpiece Load for Single-Side Finger Cylinder	9	kg
Maximum working load of single-side finger cylinder	12	kg
Product weight	15.2	kg
Rotation time	1.5~4	sec
Specification of buffer unit	M33 Hydraulic buffer	
Repeated positioning accuracy	± 0.05	mm
Operating air pressure	3~8	bar
Air connection port of air distribution pipe	G1/4	
Operating temperature range	-5~60	°C
IP rating	65	

Product attributes	Parameter Value	Unit
Single stroke	16	mm
Product weight	2.75	kg
Maximum allowable gripping distance	180	mm
Specification of air connection port	G1/8	
Theoretical maximum gripping force: opening/closing	340P/316P	N
Opening/closing time	0.15/0.15	s
Repeated gripping accuracy	± 0.03	mm
Operating air pressure range	3~8	bar
Temperature range of application	-5~60	°C
IP rating	40	

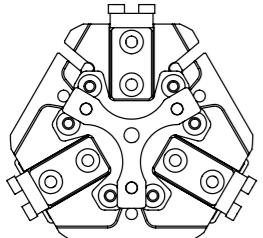
TG50



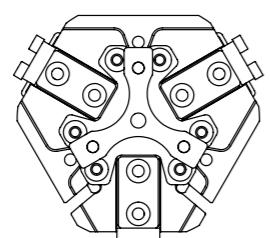
- ① Parallel gripper mounting hole
- ② Parallel gripper mounting and positioning hole
- ③ Three-finger gripper mounting hole
- ④ Three-finger gripper mounting and positioning hole
- ⑤ Mounting hole of swing cylinder
- ⑥ Mounting and positioning hole of swing cylinder
- (A) Compressed air connection port
- (B) Location of magnetic proximity sensor
- (C) Hydraulic buffer
- (D) Swing cylinder rotation limit

Note: The mounting hole position of symmetry plane is the same.

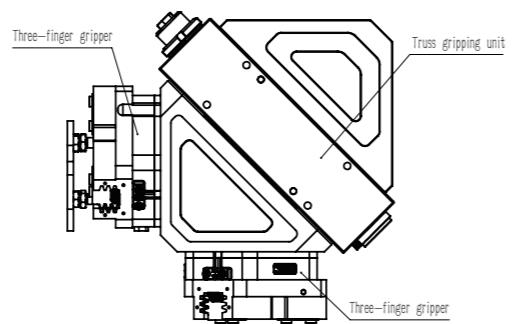
TG50-FZ90-155-0° Standard installation/180° Finger cylinder flip



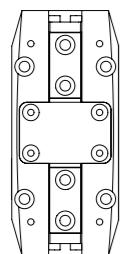
The mounting angle is 0°



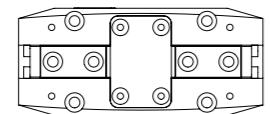
The mounting angle is 180°



TG50-FR72-192-0° Standard installation/90° Finger cylinder flip



The mounting angle is 0°



The mounting angle is 90°

