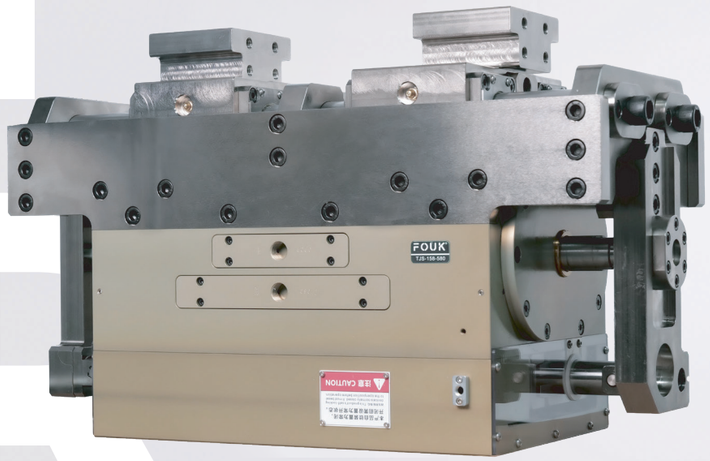
FOUK®



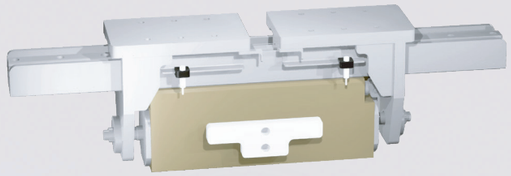
TF shaft or slide rail bearing type gripper series

FOUK-TJ

With one-side opening and closing 100mm~125mm, FOUK'S self-developed heavy-duty pneumatic two-finger parallel gripper has the gripping force of more than ten thousand newtons, and can hold workpieces with the weight of 800KG. Equipped with mechanical self-locking, it ensures stability and safety.

Usage Video of TJ Series Products

TJL with Extra-long Stroke as well as TJM and TJS Particularly Suitable for Truss Bar Gripping

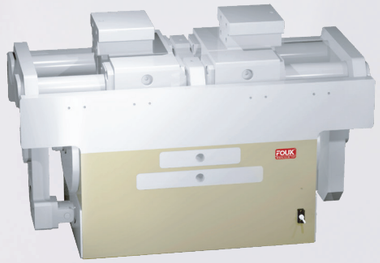


TJL70-250

Driven by double cylinders, with rack synchronization and line rail bearing, it is suitable for gripping hub and other products

TJM115-530

Driven by double cylinders, rack synchronization, and shaft bearing, with mechanical self-locking optional



TJS150-580

Driven by double cylinders, rack synchronization, and shaft bearing, with mechanical self-locking optional

S Single-finger stroke 125/100/105mm

F Gripping force 4000..20000N

m Workpiece weight 50..800kg

m Product weight 23..126kg

Specification Quantity: 3

Product Code	Single stroke/mm	Maximum gripping force on both sides/N	Page
TJL-70-250	125	4000	88
TJM-115-530	100	11000	90
TJS-150-580	105	20000	92

P: Compressed air pressure [bar]
Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

Shaft or slide rail bearing type gripper series FOUK-TJ

TJL-70-250

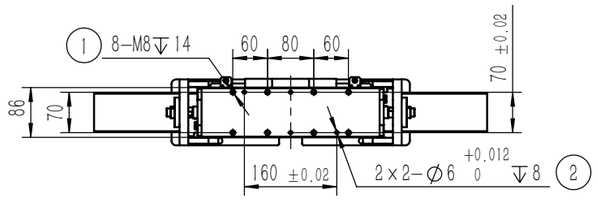
TJL-70-250

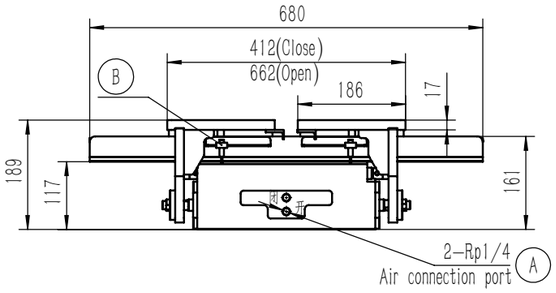
TJL 70 - 250

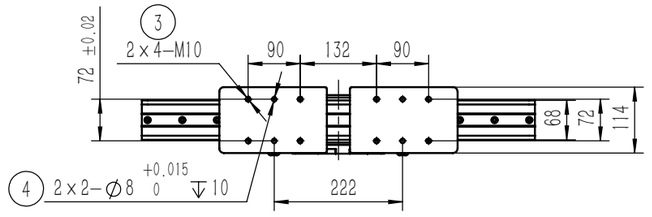
TJL: Serial No.
70: Cylinder bore
250: Total stroke of gripper
TF: Shaft or slide rail bearing

*For the model and quantity of optional sensors, please contact our sales department

Product attributes	Parameter Value	Unit
Product model	TJL-70-250	
Product weight	23	kg
Single stroke	125	mm
Operating air pressure	0.4~0.65	MPa
Operating temperature	-5~60	℃
Repeatability accuracy	± 0.15	mm
Maximum usage frequency	8	cpm
Maximum gripping force on both sides	4000	N
Specification of air connection port	Rp1/4	
Lubrication mode	Grease of slide rail	
Air consumption per single working cycle	11.5	L
Self-locking form	None	
Maximum allowable gripping distance	400	mm
Maximum static load Fz that can be withstood vertically	2000	N
Bearing bending moment Mx during operation	400	N.m
Bearing bending moment My during operation	600	N.m
Bearing bending moment Mz during operation	300	N.m
Particle size of air dust during operation	<20	μ m
Operating air humidity	<50	%
Overall dimensions (length, width and height) of product	680*115*190	mm







① Bottom mounting hole

② Positioning for bottom mounting

③ Mounting hole of gripping finger

④ Installation and positioning of gripping finger

Ⓐ Compressed air connection port

Ⓑ Location of inductive proximity sensor

Shaft or slide rail bearing type gripper series FOUK-TJ

TJM-115-530

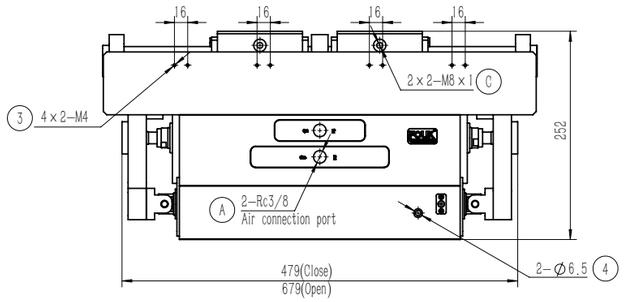
TJM-115-530

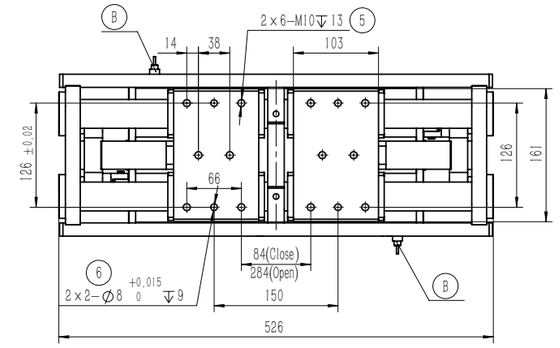
TJS 115 - 530

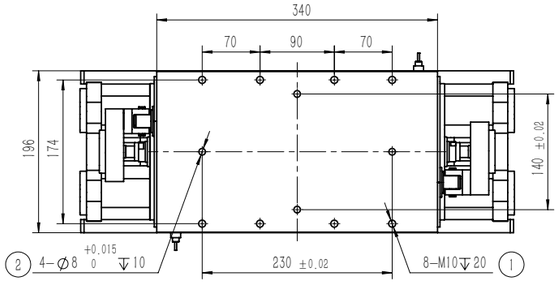
- TJS: Serial No.
- 115: Cylinder bore
- 530: Maximum shell length
- TF: Shaft or slide rail bearing

*For the model and quantity of optional sensors, please contact our sales department

Product attributes	Parameter Value	Unit
Product model	TJM-115-530	
Product weight	69	kg
Single stroke	100	mm
Operating air pressure	0.5~0.7	MPa
Operating temperature	-5~60	℃
Repeatability accuracy	± 0.15	mm
Maximum usage frequency	8	cpm
Maximum gripping force on both sides	11000	N
Specification of air connection port	Rc3/8	
Lubrication mode	Special grease	
Air consumption per single working cycle	23	L
Self-locking form (optional)	Normally closed	
Maximum allowable gripping distance	320	mm
Maximum static load Fz that can be withstood vertically	4500	N
Bearing bending moment Mx during operation	700	N.m
Bearing bending moment My during operation	1300	N.m
Bearing bending moment Mz during operation	500	N.m
Particle size of air dust during operation	<15	μ m
Operating air humidity	<50	%
Overall dimensions (length, width and height) of product	526*196*252	mm







1 Bottom mounting hole
2 Positioning for bottom mounting
3 Mounting hole reserved for proximity sensor
4 Self-locking air pipe access
5 Mounting hole of gripping finger
6 Installation and positioning of gripping finger
A Compressed air connection port
B Position of self-locking proximity sensor
C Grease injection hole

Note:

When there is no air, the gripper maintains the self-locking state to prohibit and the opening and closing actions.

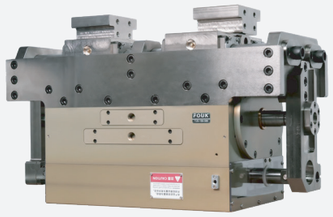
When it is ventilated, the gripper releases the self-locking state to open and close.

This is a mechanical self-locking scheme, which is optional.

(When the self-locking sensor light is on, the self-locking is released)

Shaft or slide rail bearing type gripper series FOUK-TJ

TJS-150-580

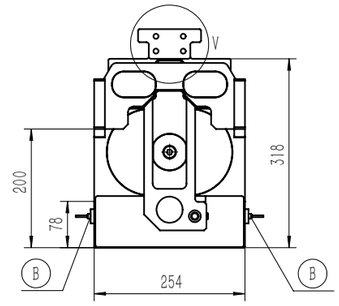


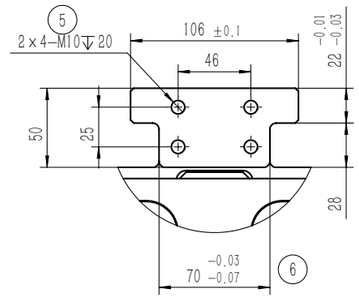
TJS 150 - 580

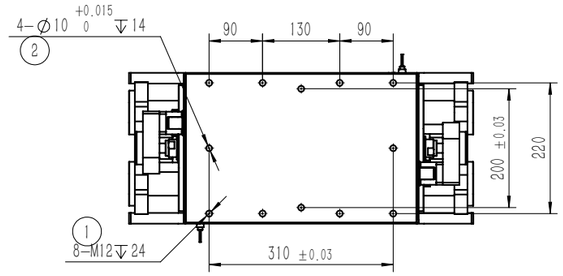
- TJS: Serial No.
- 150: Cylinder bore
- 580: Maximum shell length
- TF: Shaft or slide rail bearing

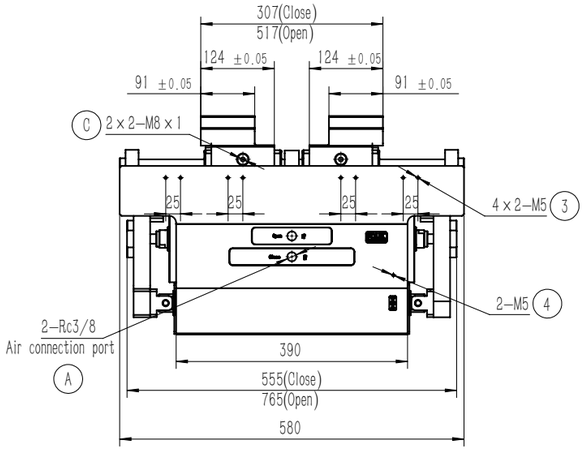
*For the model and quantity of optional sensors, please contact our sales department

Product attributes	Parameter Value	Unit
Product model	TJS-150-580	
Product weight	126	kg
Single stroke	105	mm
Operating air pressure	0.5~0.7	MPa
Operating temperature	-5~60	°C
Repeatability accuracy	± 0.15	mm
Maximum usage frequency	6	cpm
Maximum gripping force on both sides	20000	N
Specification of air connection port	Rc3/8	
Lubrication mode	Special grease	
Air consumption per single working cycle	45	L
Self-locking form (optional)	Normally closed	
Maximum allowable gripping distance	320	mm
Maximum static load Fz that can be withstood vertically	11000	N
Bearing bending moment Mx during operation	900	N.m
Bearing bending moment My during operation	2200	N.m
Bearing bending moment Mz during operation	600	N.m
Particle size of air dust during operation	<15	μ m
Operating air humidity	<50	%
Overall dimensions (length, width and height) of product	580*254*368	mm









① Bottom mounting hole

② Positioning for bottom mounting

③ Mounting hole reserved for proximity sensor

④ Self-locking air pipe access

⑤ Mounting hole of gripping finger

⑥ Installation and positioning of gripping finger

Ⓐ Compressed air connection port

Ⓑ Position of self-locking proximity sensor

Ⓒ Grease injection hole

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