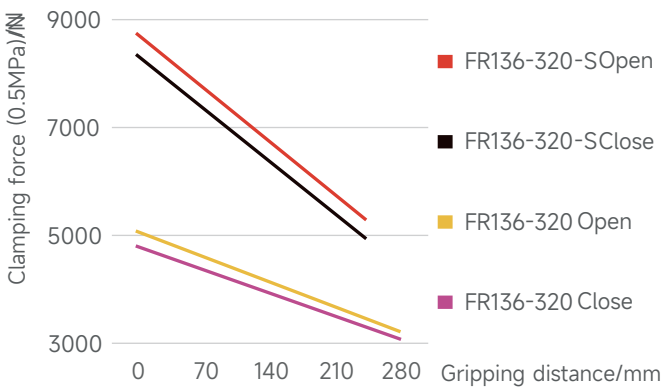
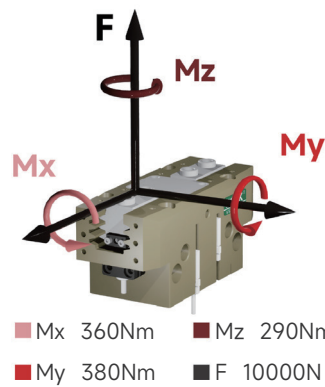


Toothed parallel gripper series FOUK-FR

FR136-320

Static load-bearing torque

Gripping force curve



FR 136-320-S-B-P-NO-H

Serial No.	Cylinder bore	Shell length	Short stroke	Ventilation at bottom	Dust cover IP64	Self-locking form	High temperature resistance
FR Toothed parallel gripper			S Increased gripping force Standard version M	I Ventilation on the side	I Without dust cover	NO Self-locking by opening NC Self-locking by closing I Without self-locking	H ~5~240°C I 0~60°C

Inductive proximity sensor

IPSD-2NS-0831-L3	Inductive, NPN, 3-core3m
IPSD-2PS-0831-L3	Inductive, PNP, 3-core3m

Magnetic proximity sensor

MZC2-1V7NS-FU0	Magnetic, NPN, 3-core3m
MZC2-1V7PS-FU0	Magnetic, PNP, 3-core3m

*Two sensors are required for each gripper. For the detailed monitoring of two positions, see the sensor appendix.

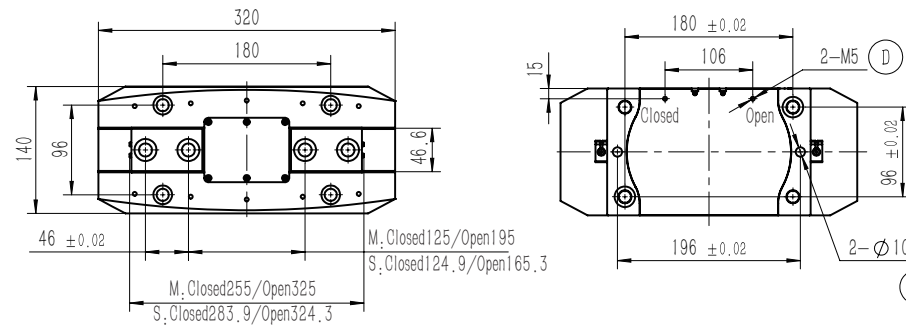
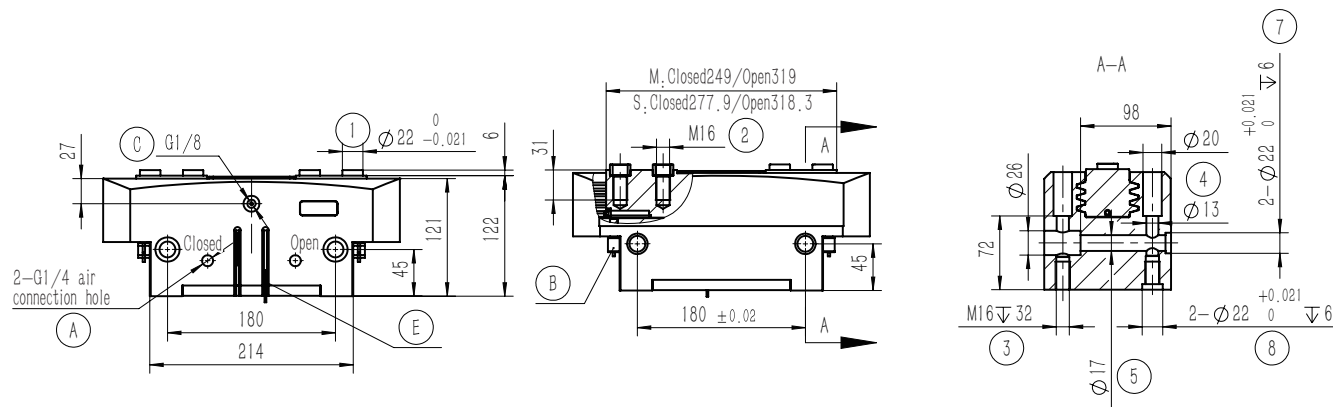
Product attributes	FR136-320	FR136-320-NO	FR136-320-NC	FR136-320-S	FR136-320-S-NO	FR136-320-S-NC	Unit
Single stroke	35	35	35	20	20	20	mm
Product weight	13.8	16.8	17	14.2	17.2	17.4	kg
Maximum allowable gripping distance	280	280	280	250	250	250	mm
Theoretical maximum gripping force: opening/closing	1015P/960P	1015P/-	-/960P	1750P/1655P	1750P/-	-/1655P	N
Minimum Spring Locking Force		1700	1700		2900	2900	N
Workpiece weight	32	32	32	55	55	55	kg
Opening/closing time	0.5/0.5	0.4/0.7	0.7/0.4	0.5/0.5	0.4/0.7	0.7/0.4	s
Gas consumption of single opening and closing cycle	6.3	9.4	7.8	6.3	9.4	7.8	L

P: Compressed air pressure [bar]

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

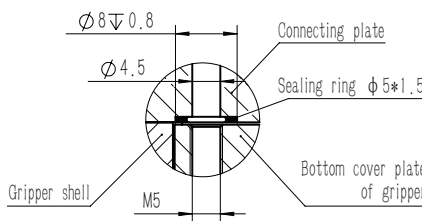
Repeated gripping accuracy/mm	± 0.04	Specification of air connection port	G1/4
Operating air pressure range/bar	3 ~8	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	12

FR136-320-M/S



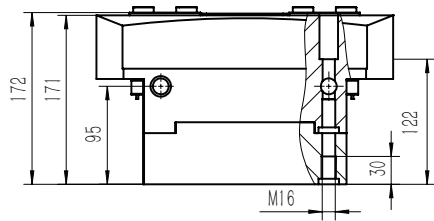
- ① Gripping finger location pin bushing (standard)
- ② Mounting hole of gripping finger
- ③ ④ ⑤ Gripper mounting hole
- ⑥ ⑦ ⑧ Gripper mounting and positioning pin hole
- A Compressed air connection port
- B Location of inductive proximity sensor
- C Positive-pressure air blowing hole/grease injection hole
- D Bottom ventilation hole (version-B)
- E Location of magnetic proximity sensor

FR136-320-B Ventilation at bottom



FR136-320-NC/NO Self-locking

Built-in spring, mechanical self-locking



FR136-320-P Dust-proof

Dust-proof module, IP64 for the positive-pressure air blowing hole after it, is connected to the compressed air of 0.05-0.10MPa, otherwise, IP50

