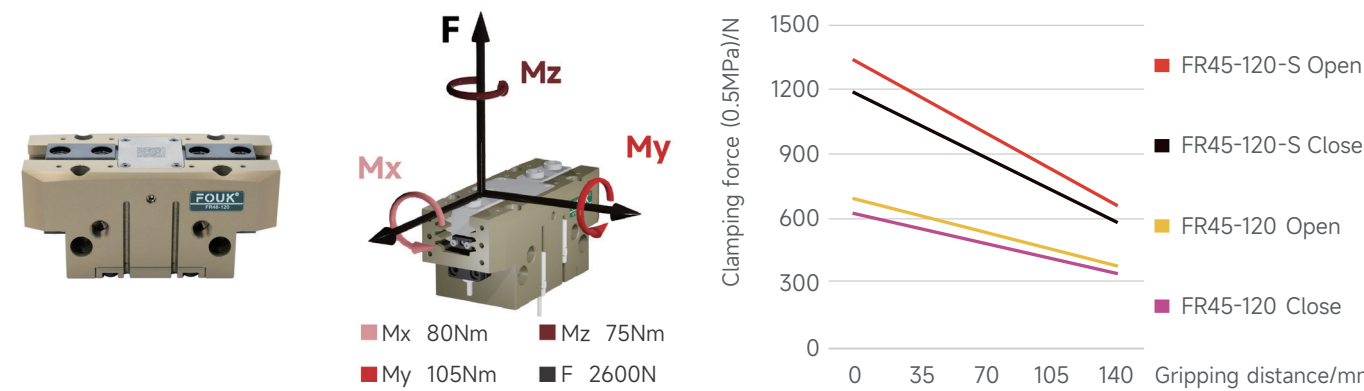


Toothed parallel gripper series FOUK-FR

FR45-120

Static load-bearing torque

Gripping force curve



FR

45

-

120

-

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

Magnetic proximity sensor

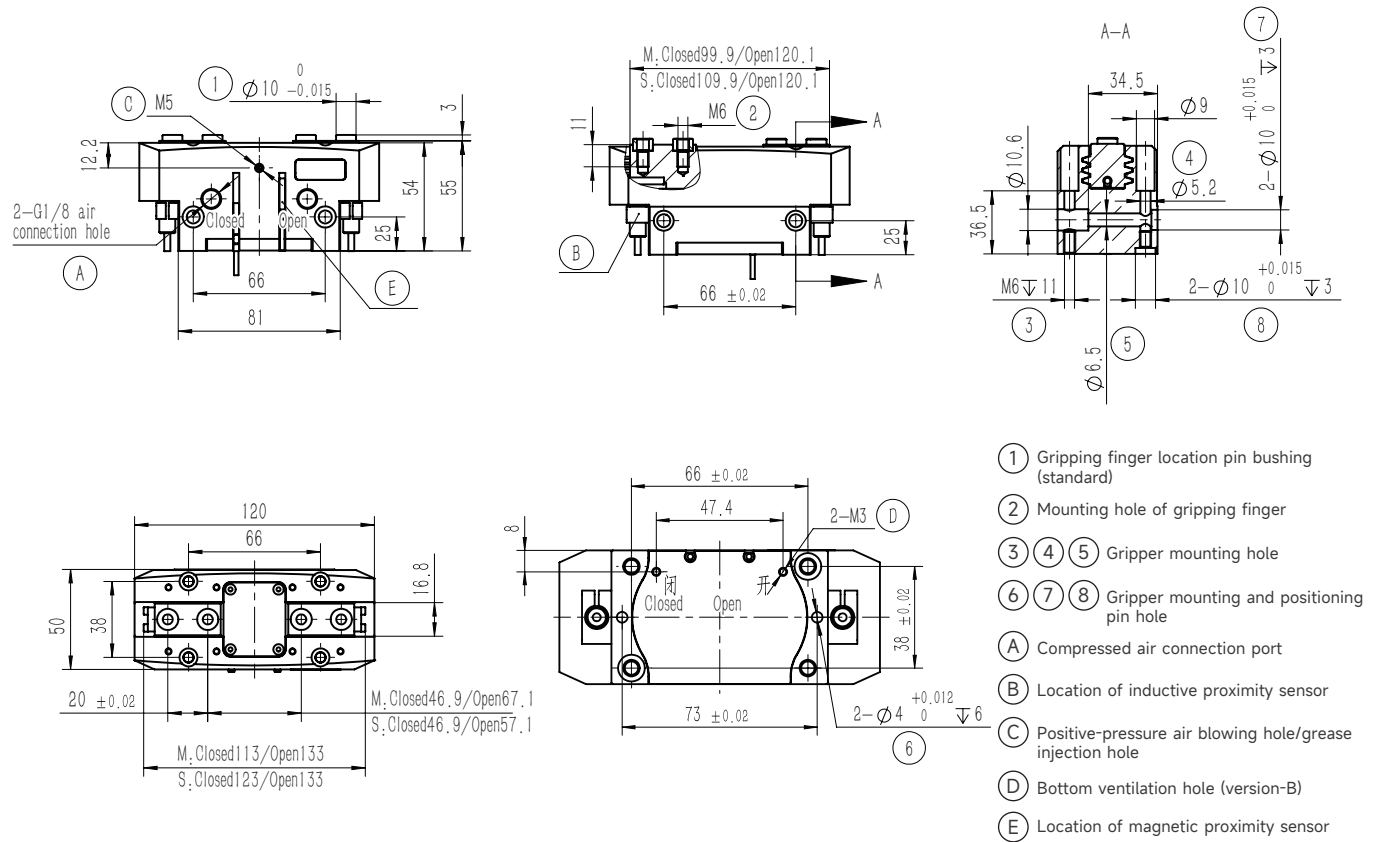
IPSD-2NS-0823-L3 Inductive, NPN, 3-core3m
IPSD-2PS-0823-L3 Inductive, PNP, 3-core3m

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

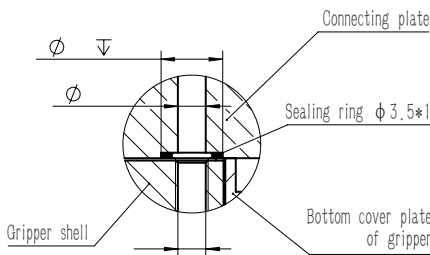
*Two sensors are required for each gripper. For the detailed monitoring of two positions, see the sensor appendix.

Product attributes	FR45-120	FR45-120-NO	FR45-120-NC	FR45-120-S	FR45-120-S-NO	FR45-120-S-NC	Unit
Single stroke	10	10	10	5	5	5	mm
Product weight	0.9	1.15	1.15	0.9	1.15	1.15	kg
Maximum allowable gripping distance	140	140	140	140	140	140	mm
Theoretical maximum gripping force: opening/closing	138P/124P	138P/-	-/124P	266P/238P	266P/-	-/238P	N
Minimum Spring Locking Force		280	280		540	540	N
Workpiece weight	4	4	4	7	7	7	kg
Opening/closing time	0.06/0.06	0.05/0.09	0.09/0.05	0.06/0.06	0.05/0.09	0.09/0.05	s
Gas consumption of single opening and closing cycle	0.25	0.41	0.38	0.25	0.41	0.38	L
P: Compressed air pressure [bar] Gas consumption: volume of gas consumed at normal pressure (0.5MPa)							
Repeated gripping accuracy/mm	± 0.02		Specification of air connection port		G1/8		
Operating air pressure range/bar	3~8		Temperature range of application/°C		-5~60		
IP rating	40		Maximum allowable single-finger gripping weight/kg		1.2		

FR45-120-M/S

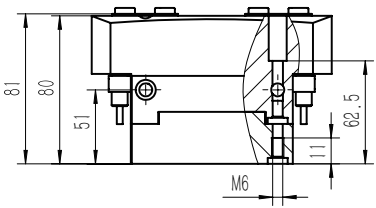


FR45-120-B Ventilation at bottom



FR45-120-NC/NO Self-locking

Built-in spring, mechanical self-locking



FR45-120-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

