

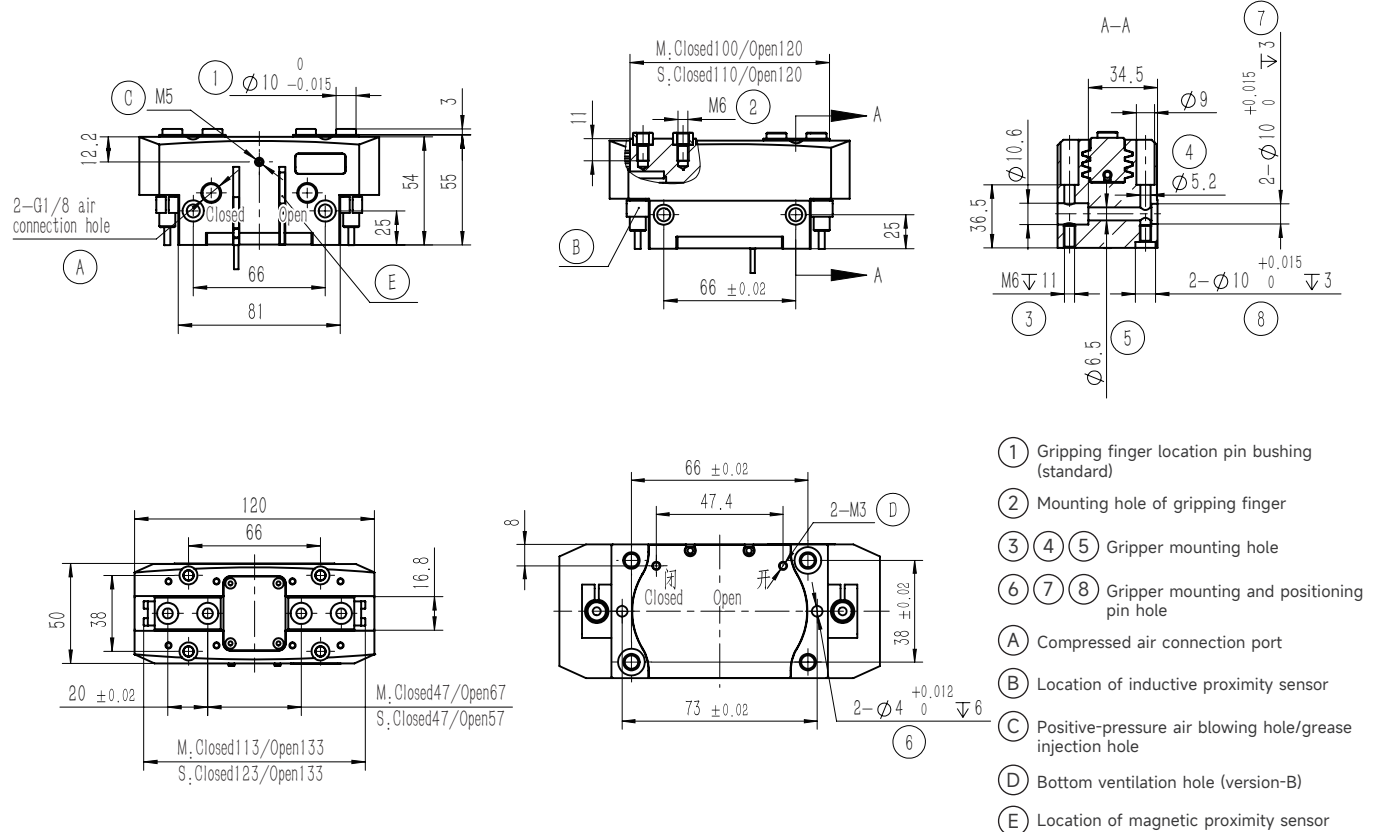
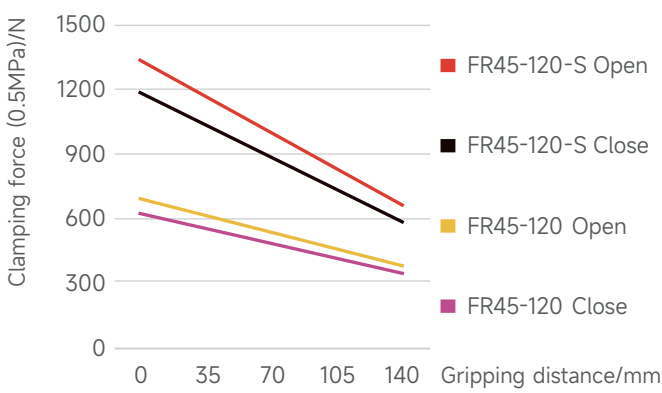
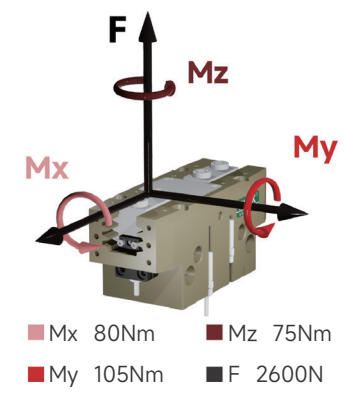
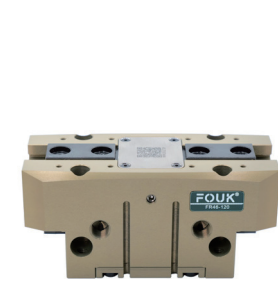
Toothed parallel gripper series FOUK-FR

FR45-120-M/S

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	/ Ventilation on the side	/ Without dust cover	NO Self-locking by opening NC Self-locking by closing / Without self-locking	H -5~240°C / 0~60°C

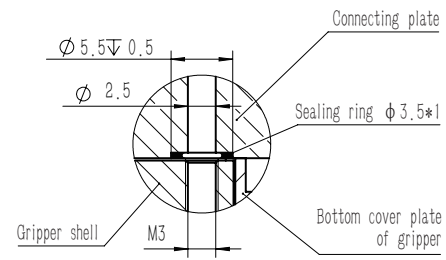
Inductive proximity sensor		Magnetic proximity sensor	
IPSD-2NS-0823-L3	Inductive, NPN, 3-core3m	D-M9NAL	Magnetic, NPN, 3-core3m
IPSD-2PS-0823-L3	Inductive, PNP, 3-core3m	D-M9PAL	Magnetic, PNP, 3-core3m

*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

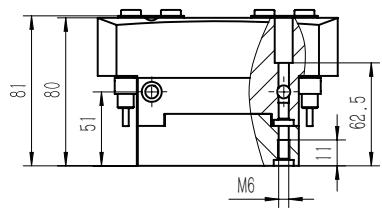
Repeated gripping accuracy/mm	± 0.02	Specification of air connection port	G1/8
Operating air pressure range/bar	3~8	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	1.2

FR45-120-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

