

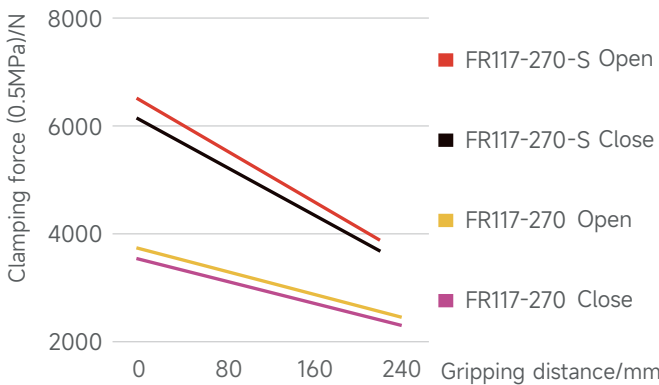
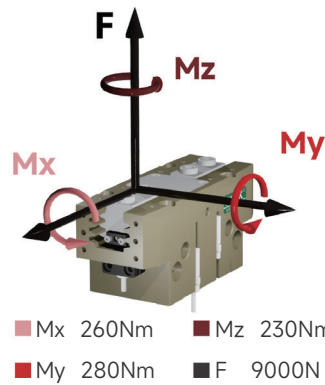
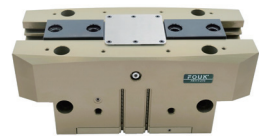
Toothed parallel gripper series FOUK-FR

FR117-270-M/S

FR117-270

Static load-bearing torque

Gripping force curve



FR 117 - 270 - S - B - P - NO - H

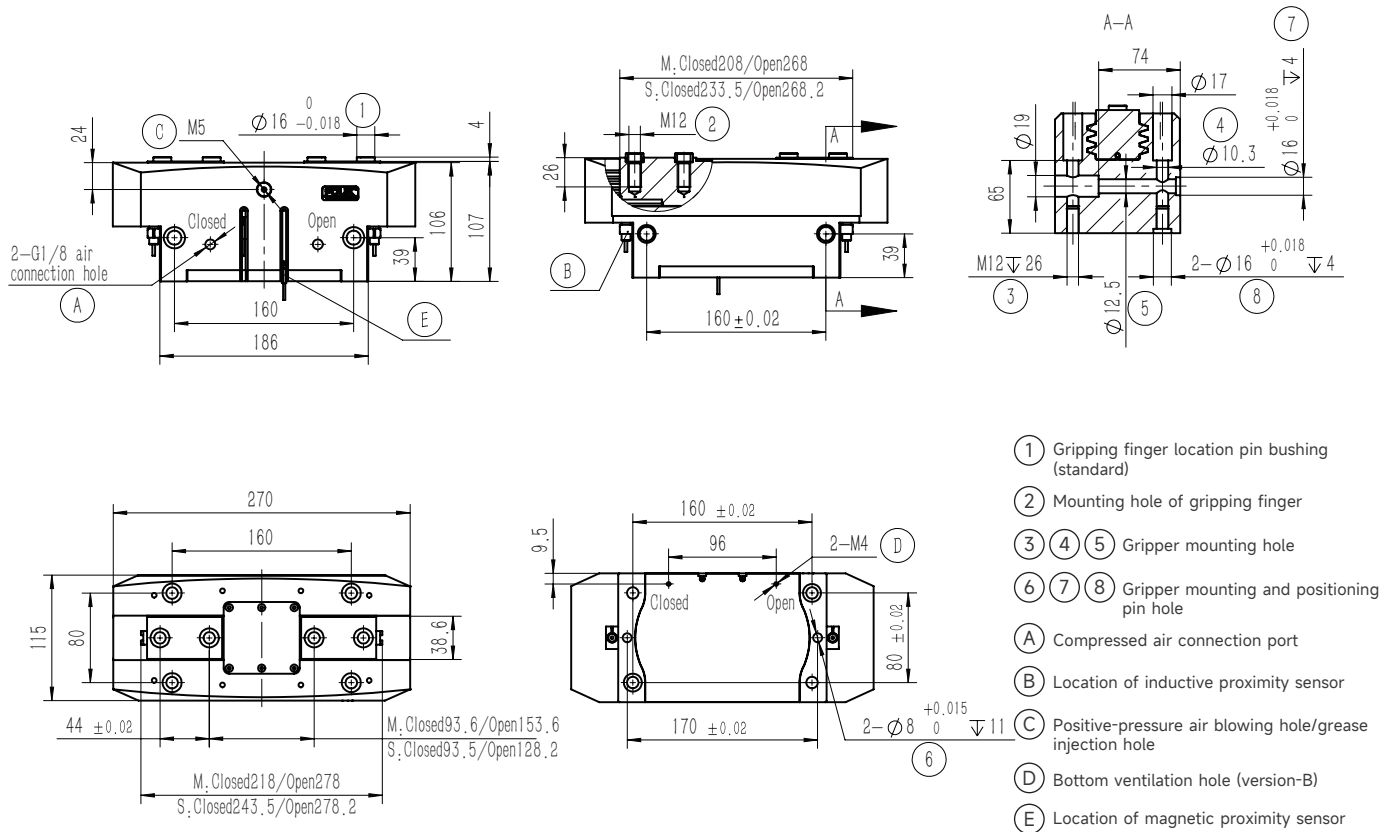
Serial No.	Cylinder bore	Shell length	Short stroke	Ventilation at bottom	Dust cover IP64	Self-locking form	High temperature resistance
FR Toothed parallel gripper			S Increased gripping force Standard version M	I Ventilation on the side	I Without dust cover	NO Self-locking by opening NC Self-locking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

Inductive proximity sensor		Magnetic proximity sensor	
IPSD-2NS-0831-L3	Inductive, NPN, 3-core3m	MZC2-1V7NS-FU0	Magnetic, NPN, 3-core3m
IPSD-2PS-0831-L3	Inductive, PNP, 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	FR117-270	FR117-270-NO	FR117-270-NC	FR117-270-S	FR117-270-S-NO	FR117-270-S-NC	Unit
Single stroke	30	30	30	17	17	17	mm
Product weight	8.5	10.4	10.2	8.7	10.6	10.4	kg
Maximum allowable gripping distance	240	240	240	220	220	220	mm
Theoretical maximum gripping force: opening/closing	754P/714P	754P/-	-/714P	1300P/1230P	1300P/-	-/1230P	N
Minimum Spring Locking Force		1300	1300		2200	2200	N
Workpiece weight	25	25	25	43	43	43	kg
Opening/closing time	0.5/0.5	0.45/0.9	0.9/0.45	0.5/0.5	0.45/0.9	0.9/0.45	s
Gas consumption of single opening and closing cycle	4	6.6	6.4	4	6.6	6.4	L

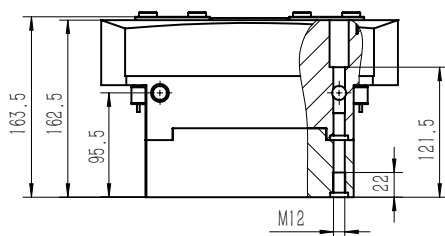
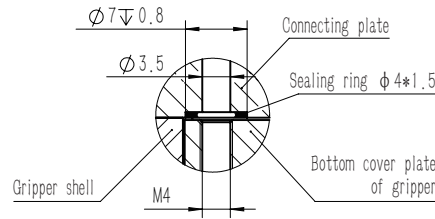
Repeated gripping accuracy/mm	± 0.04	Specification of air connection port	G1/8
Operating air pressure range/bar	3~8	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	9



FR117-270-B Ventilation at bottom

FR117-270-NC/NO Self-locking

Built-in spring, mechanical self-locking



FR117-270-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

