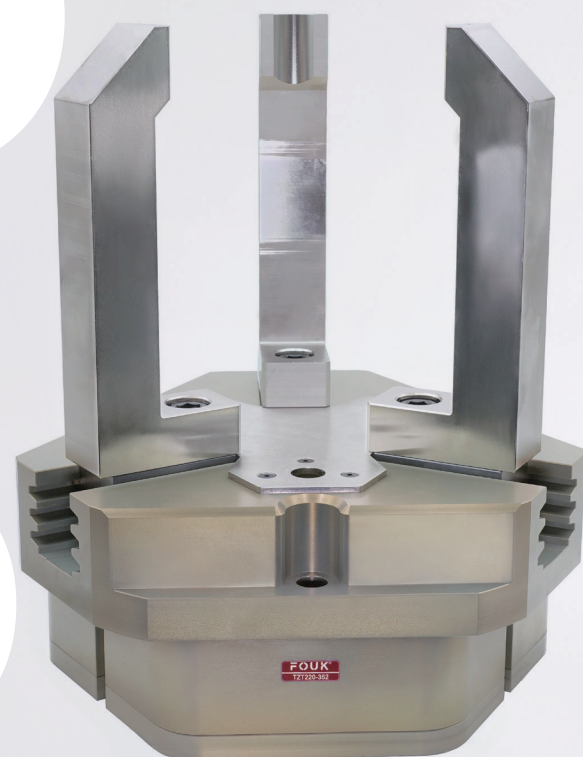




FZ toothed three-finger gripper series

FOUK-FZ

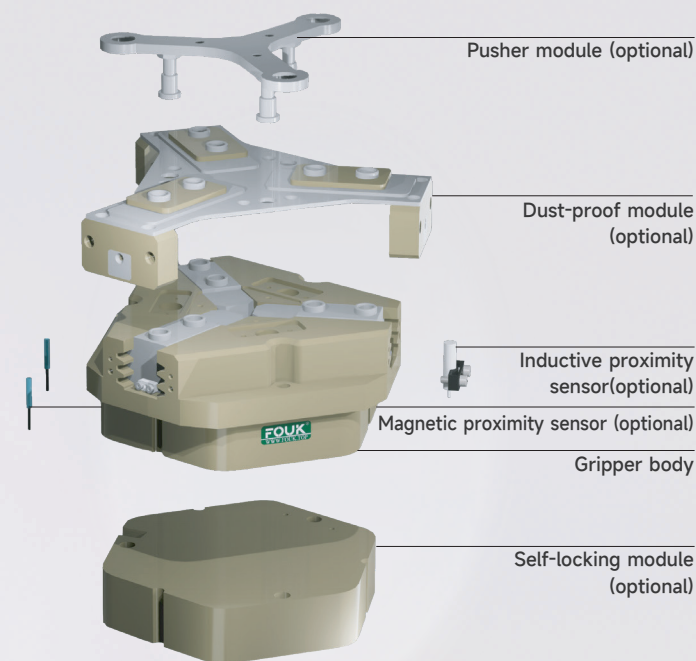
For the standard pneumatic three-finger gripper, FOUK adopt high strength materials and the surface treatment process of strong wear resistance, which ensures the reliability and service life of the product in use. Meanwhile, it has abundant optional interfaces to adapt to the complex working conditions of various industries.



Usage Video of FZ Series Products

Extensive range of optional modules

It can be matched with various optional modules to meet the requirements of dust prevention, self-locking, high temperature resistance, etc. according to the special use conditions of different industries.



Structure Design of Three-tooth Guide Rail

Referring to the chuck structure, the three-tooth guide rail has higher bearing capacity and longer service life than the conventional guide rail with the T-shaped groove.

Wedge drive mode

Thanks to excellent drive structure, it has the characteristics of high load and high centering accuracy

Anodized aviation aluminum housing

By adopting the high-quality aviation aluminum housing, the gripper is ensured to have the characteristics of high load while minimizing the weight.

S	F	m
Single-finger stroke 6..45mm	Gripping force 76P..4400P	Workpiece weight 1.7..130kg
m	m	
Product weight 0.35..70kg	Specification Quantity: 10	

Product Code		Single stroke/mm	Open Gripping Force: N	Close Gripping Force: N	Workpiece weight/kg	Product weight/kg	Page
FZ34-68	M	6	76 × P	69 × P	1.7	0.35	44
FZ42-78	M	6	116 × P	106 × P	3	0.51	46
FZ55-100	M	8	198 × P	172 × P	5	0.87	48
	S	4	396 × P	344 × P	8	0.89	48
FZ70-125	M	10	310 × P	280 × P	8	1.6	50
	S	5	650 × P	600 × P	18	1.7	50
FZ90-155	M	13	515 × P	490 × P	12	2.7	52
	S	6	810 × P	770 × P	21	2.8	52
FZ125-200	M	16	1080 × P	1000 × P	30	6	54
	S	8	1960 × P	1830 × P	55	6	54
FZ160-250	M	25	1300 × P	1250 × P	31	10.5	56
	S	14	2260 × P	2170 × P	55	10.5	56
FZ185-292	M	30	1750 × P	1600 × P	50	21	58
	S	17	3470 × P	3280 × P	100	22	58
FZ220-352	M	35	2500 × P	2400 × P	80	34	60
	S	20	4400 × P	4200 × P	130	34	60
FZ290-430	M	45	4400 × P	4000 × P	130	70	62
	S	26	8000 × P	7700 × P	220	72	62

P: Compressed air pressure [bar]

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

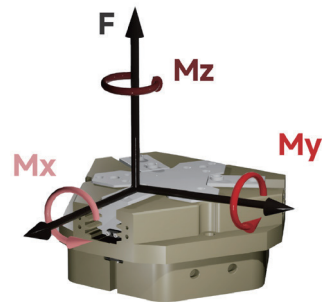
Toothed three-finger gripper series FOUK-FZ

FZ34-68

FZ34-68

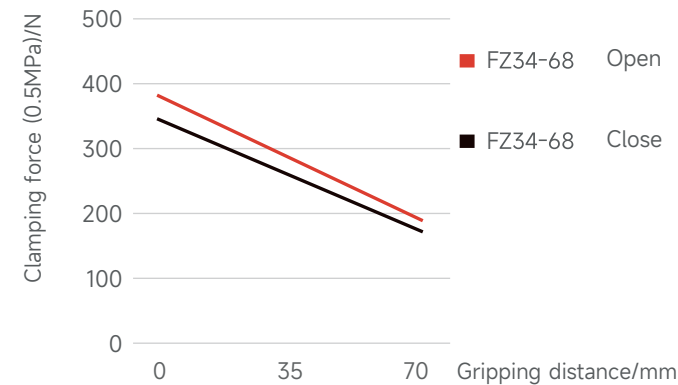


Static load-bearing torque



■ Mx 24Nm ■ Mz 17Nm
■ My 28Nm ■ F 550N

Gripping force curve



FZ 34 - 68 - B - C18 - P - NO - H

Serial No.	Cylinder bore	Maximum shell diameter	Ventilation at bottom	Length of push rod	Dust cover IP64	Self-locking form	High temperature resistance
FZ	Toothed three-finger gripper		/ Ventilation on the side	C18 18.5mm C26 26.5mm / Without push plate	/ Without dust cover	NO Self-locking by opening NC Self-locking by closing / Without self-locking	H -5~240℃ / 0~60℃

Inductive proximity sensor

IPSD-2NS-0818-L3	Inductive, NPN, 3-core3m
IPSD-2PS-0818-L3	Inductive, PNP, 3-core3m

Magnetic proximity sensor

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

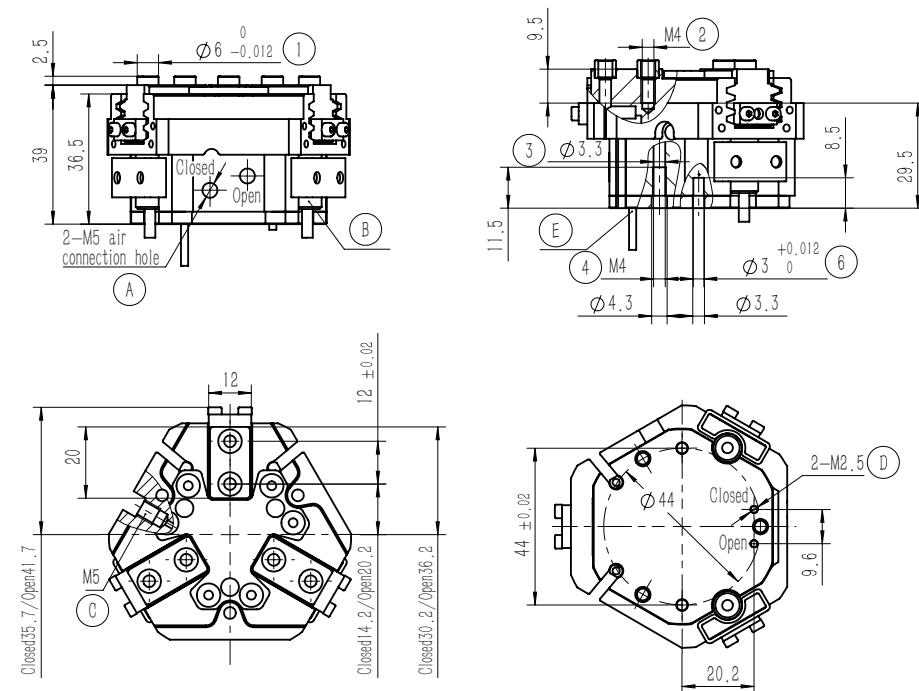
*Two sensors are required for each gripper. For the detailed monitoring of two positions, see the sensor appendix.

Product attributes	FZ34-68	FZ34-68-NO	FZ34-68-NC	Unit
Single stroke	6	6	6	mm
Product weight	0.35	0.41	0.42	kg
Maximum allowable gripping distance	70	70	70	mm
Theoretical maximum gripping force: opening/closing	76P/69P	76P/-	-/69P	N
Gas consumption of single opening and closing cycle	0.09	0.13	0.11	L
Minimum Spring Locking Force		140	140	N
Workpiece weight	1.7	1.7	1.7	kg
Opening/closing time	0.04/0.04	0.03/0.05	0.05/0.03	s

P: Compressed air pressure [bar]

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

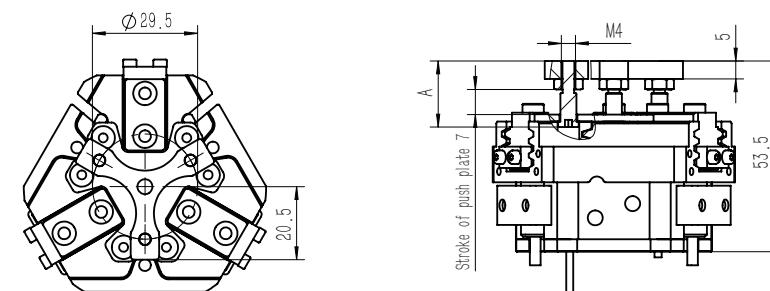
Maximum allowable single-finger gripping weight/kg	0.25	Specification of air connection port	M5
Repeated gripping accuracy/mm	± 0.02	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40



- ① Gripping finger location pin bushing (standard)
- ② Mounting hole of gripping finger
- ③ ④ Gripper mounting hole
- ⑥ Mounting and positioning pin hole
- ⑧ Compressed air connection port
- ⑨ Location of inductive proximity sensor
- ⑩ Positive-pressure air blowing hole/grease injection hole
- ⑪ Bottom ventilation hole (version-B)
- ⑫ Location of magnetic proximity sensor

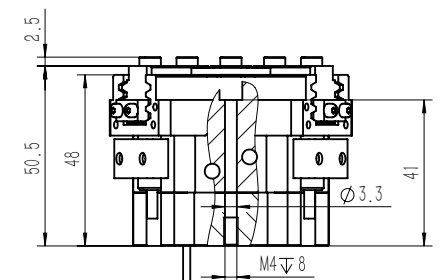
FZ34-68-C18 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 10N. If it is dust-proof and provided with the push plate, the stroke is 3.



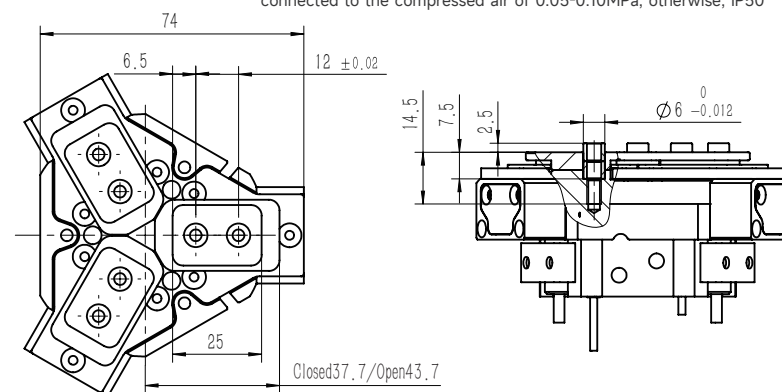
FZ34-68-NC/NO Self-locking

Built-in spring, mechanical self-locking

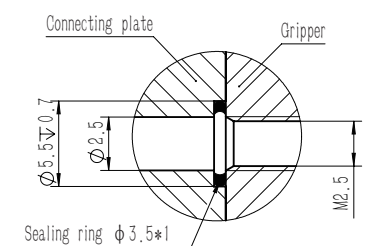


FZ34-68-P Dust-proof

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



FZ34-68-B Ventilation at bottom



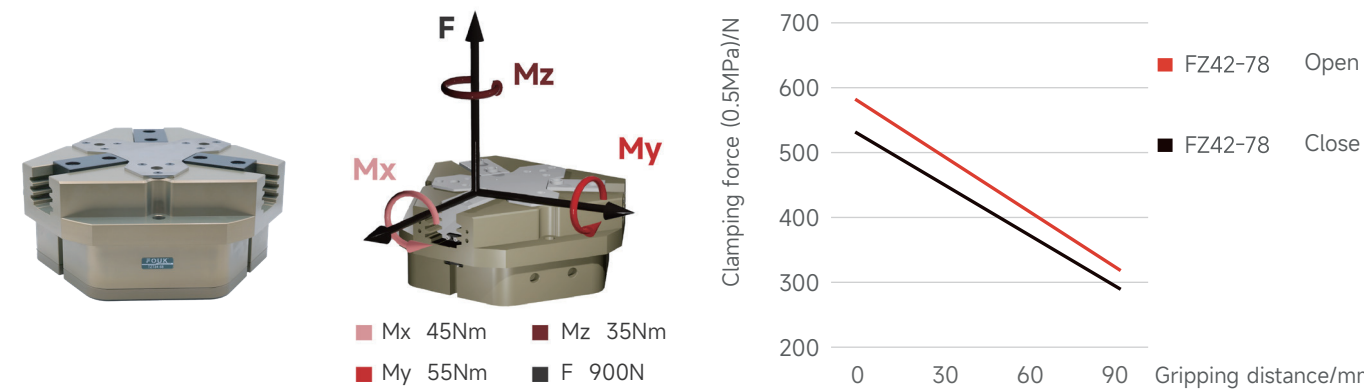
Toothed three-finger gripper series FOUK-FZ

FZ42-78

FZ42-78

Static load-bearing torque

Gripping force curve



FZ 42 - 78 - B - C20 - P - NO - H

Serial No. Cylinder bore Maximum shell diameter Ventilation at bottom Length of push rod Dust cover IP64 Self-locking form High temperature resistance

FZ	Toothed three-finger gripper
42	Cylinder bore
78	Maximum shell diameter
B	Ventilation at bottom
C20	Length of push rod
C30	Length of push rod
P	Dust cover IP64
NO	Self-locking form
NC	Self-locking form
H	High temperature resistance

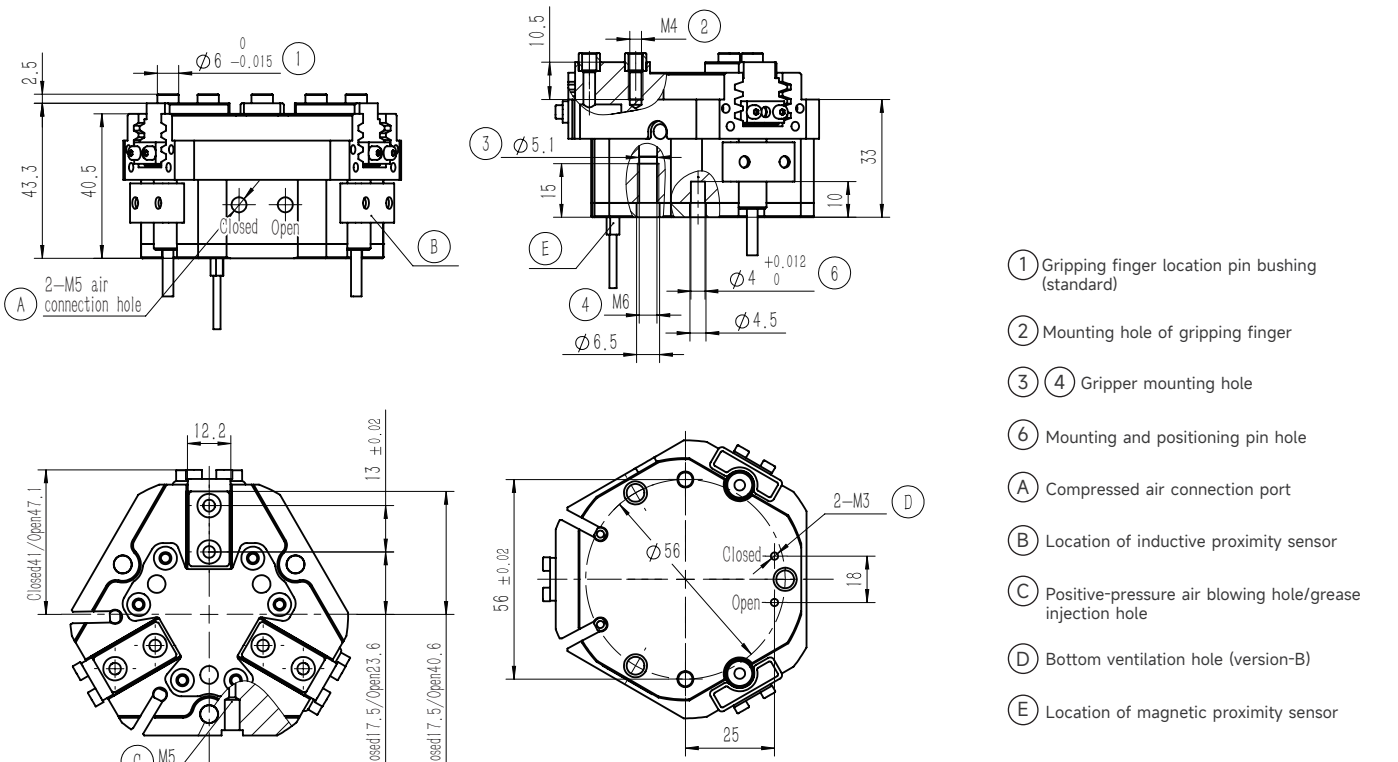
Inductive proximity sensor Magnetic proximity sensor

IPSD-2NS-0823-L3	Inductive, NPN, 3-core3m	MZC2-1V7NS-FU0	Magnetic, NPN, 3-core3m
IPSD-2PS-0823-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	FZ42-78	FZ42-78-NO	FZ42-78-NC	Unit
Single stroke	6	6	6	mm
Product weight	0.51	0.61	0.62	kg
Maximum allowable gripping distance	90	90	90	mm
Theoretical maximum gripping force: opening/closing	116P/106P	116P/-	-/106P	N
Gas consumption of single opening and closing cycle	0.14	0.25	0.18	L
Minimum Spring Locking Force		230	230	N
Workpiece weight	3	3	3	kg
Opening/closing time	0.03/0.03	0.02/0.04	0.04/0.02	s

Maximum allowable single-finger gripping weight/kg	0.35	Specification of air connection port	M5
Repeated gripping accuracy/mm	± 0.02	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40

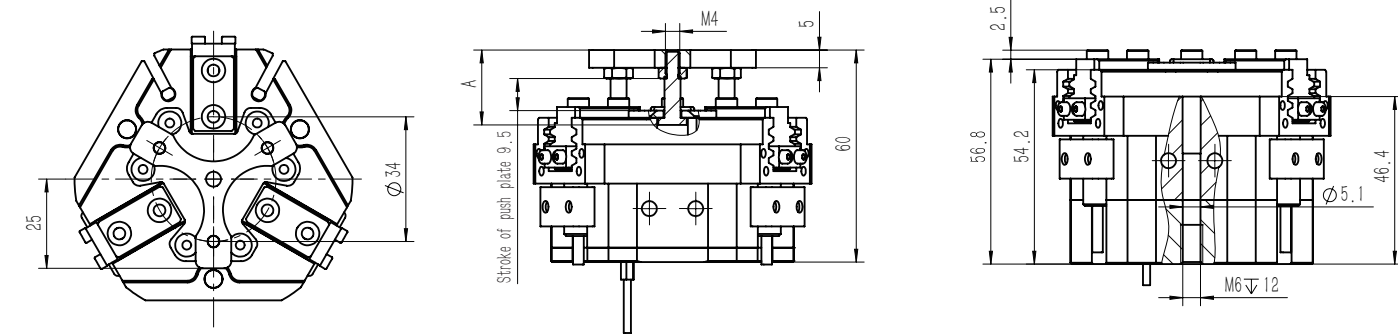


FZ42-78-C20 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 15N. If it is dust-proof and provided with the push plate, the stroke is 5.5.

FZ42-78-NC/NO Self-locking

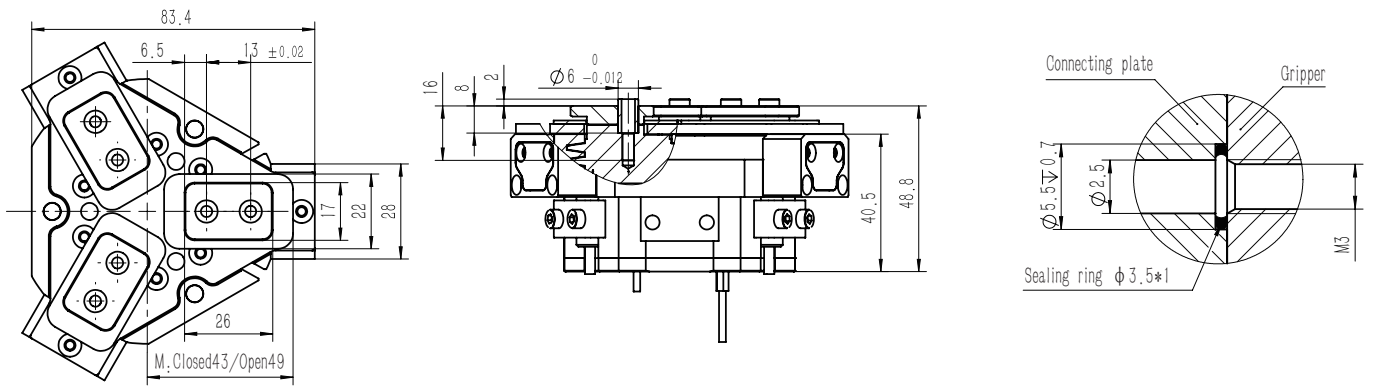
Built-in spring, mechanical self-locking



FZ42-78-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

FZ42-78-B Ventilation at bottom

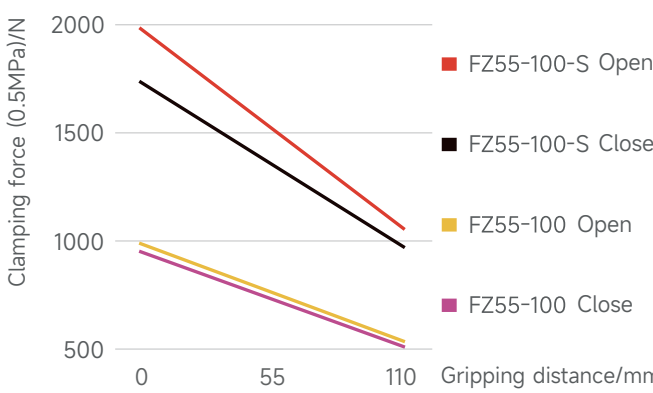
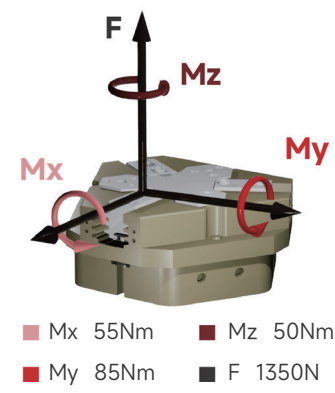


Toothed three-finger gripper series FOUK-FZ

FZ55-100

Static load-bearing torque

Gripping force curve



FZ 55 - 100 - S - B - C28 - P - NO - H

Serial No.
Cylinder bore
Maximum shell diameter
Short stroke
Ventilation at bottom
Length of push rod
Dust cover IP64
Self-locking form
High temperature resistance

FZ

Toothed three-finger gripper

S

Increased gripping force
Standard version M

I

Ventilation on the side

C28

28mm

C38

38mm

I

Without push plate

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-0823-L3

Inductive, NPN, 3-core3m

IPSD-2PS-0823-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	FZ55-100	FZ55-100-NO	FZ55-100-NC	FZ55-100-S	FZ55-100-S-NO	FZ55-100-S-NC	Unit
Single stroke	8	8	8	4	4	4	mm
Product weight	0.87	1	1	0.89	1.02	1.02	kg
Maximum allowable gripping distance	110	110	110	100	100	100	mm
Theoretical maximum gripping force: opening/closing	198P/172P	198P/-	-/172P	396P/344P	396P/-	-/344P	N
Gas consumption of single opening and closing cycle	0.295	0.419	0.419	0.295	0.419	0.419	L
Minimum Spring Locking Force		300	300		600	600	N
Workpiece weight	5	5	5	10	10	10	kg
Opening/closing time	0.05/0.05	0.04/0.06	0.05/0.03	0.05/0.05	0.04/0.06	0.05/0.03	s

Maximum allowable single-finger gripping weight/kg	0.6	Specification of air connection port	M5
Repeated gripping accuracy/mm	± 0.02	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40

FZ55-100-M/S

- ① Gripping finger location pin bushing (standard)
- ② Mounting hole of gripping finger
- ③ ④ Gripper mounting hole
- ⑥ 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

FZ55-100-C28 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 60N. If it is dust-proof and provided with the push plate, the stroke is 3.

FZ55-100-NC/NO Self-locking

Built-in spring, mechanical self-locking

FZ55-100-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

FZ55-100-B Ventilation at bottom

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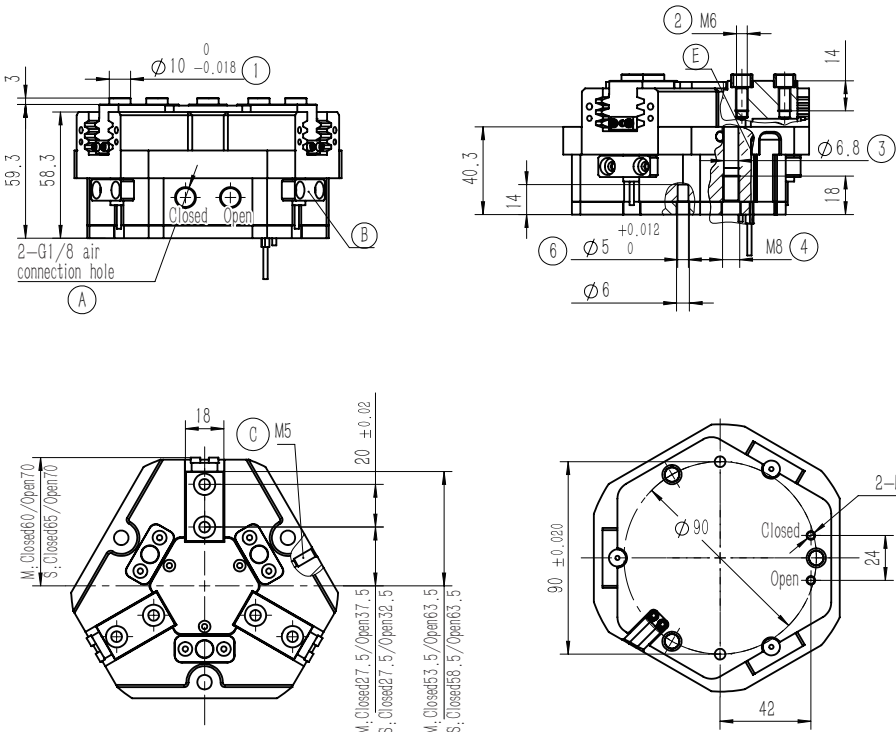
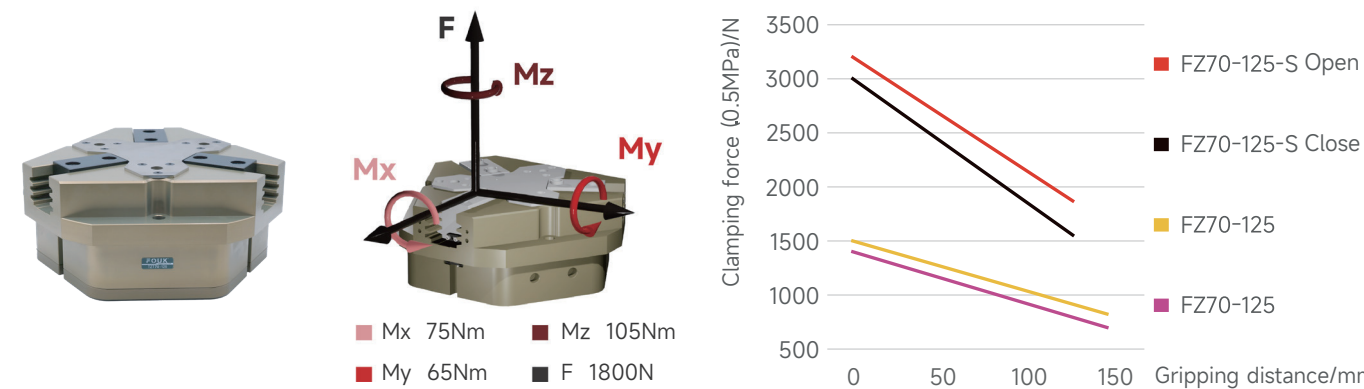
Toothed three-finger gripper series FOUK-FZ

FZ70-125-M/S

FZ70-125

Static load-bearing torque

Gripping force curve



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

FZ 70 - 125 - S - B - C30 - P - NO - H

Serial No.	Cylinder bore	Maximum shell diameter	Short stroke	Ventilation at bottom	Length of push rod	Dust cover IP64	Self-locking form	High temperature resistance
FZ	Toothed three-finger gripper		S	/	C30 30mm C40 40mm / Without push plate	/ 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

IPSD-2NS-0823-L3	Inductive, NPN, 3-core3m
IPSD-2PS-0823-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	FZ70-125	FZ70-125-NO	FZ70-125-NC	FZ70-125-S	FZ70-125-S-NO	FZ70-125-S-NC	Unit
Single stroke	10	10	10	5	5	5	mm
Product weight	1.6	2.2	2.3	1.7	2.3	2.4	kg
Maximum allowable gripping distance	145	145	145	125	125	125	mm
Theoretical maximum gripping force: opening/closing	310P/280P	310P/-	-/280P	650P/600P	650P/-	-/600P	N
Gas consumption of single opening and closing cycle	0.6	0.9	0.9	0.6	0.9	0.9	L
Minimum Spring Locking Force		720	720		1500	1500	N
Workpiece weight	9	9	9	19.5	19.5	19.5	kg
Opening/closing time	0.1/0.1	0.1/0.2	0.2/0.1	0.1/0.1	0.1/0.2	0.2/0.1	s

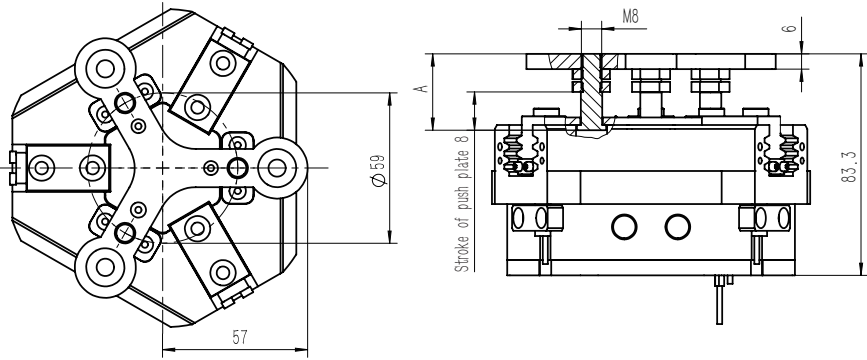
P: Compressed air pressure [bar]

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

Maximum allowable single-finger gripping weight/kg	1	Specification of air connection port	G1/8
Repeated gripping accuracy/mm	± 0.02	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40

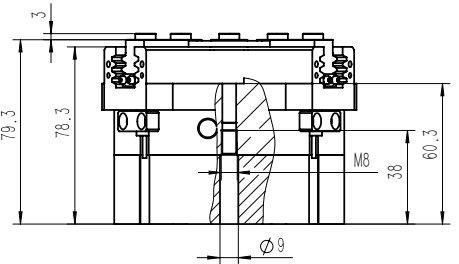
FZ70-125-C30 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 36N. If it is dust-proof and provided with the push plate, the stroke is 6.



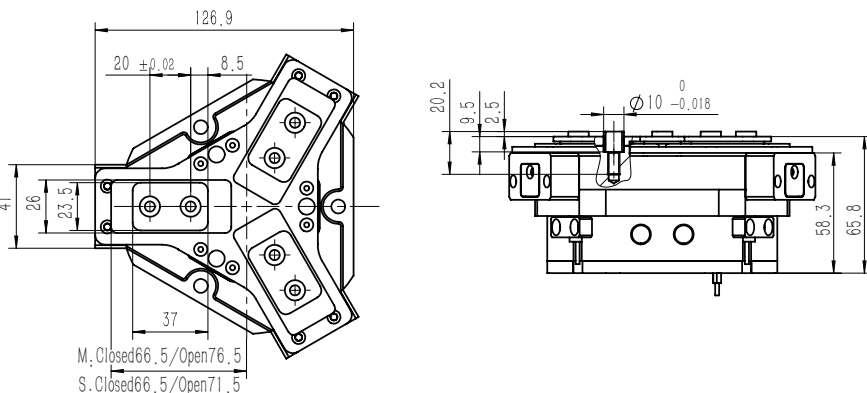
FZ70-125-NC/NO Self-locking

Built-in spring, mechanical self-locking

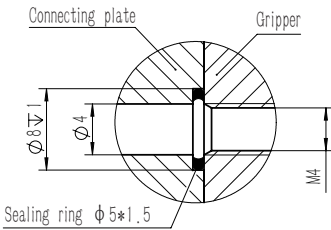


FZ70-125-P Dust-proof

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



FZ70-125-B Ventilation at bottom

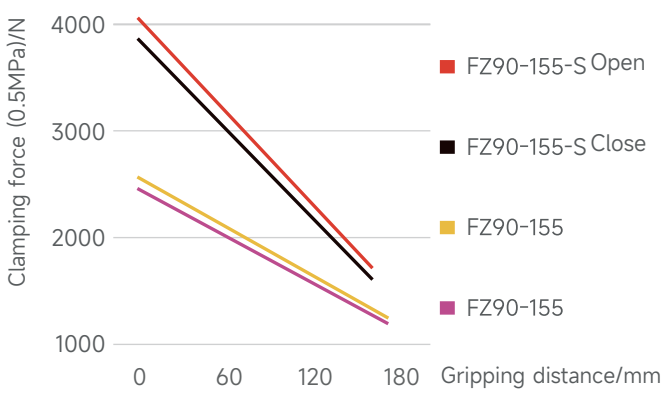
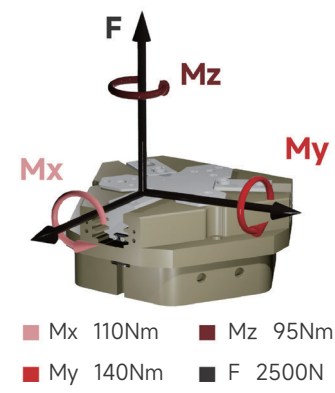


Toothed three-finger gripper series FOUK-FZ

FZ90-155

Static load-bearing torque

Gripping force curve



FZ 90 - 155 - S - B - C30 - P - NO - H

Serial No.
Cylinder bore
Maximum shell diameter
Short stroke
Ventilation at bottom
Length of push rod
Dust cover IP64
Self-locking form
High temperature resistance

FZ

Toothed three-finger gripper

S

Increased gripping force
Standard version M

/

Ventilation on the side

C30

30mm

C45

45mm

/

Without push plate

/

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

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	FZ90-155	FZ90-155-NO	FZ90-155-NC	FZ90-155-S	FZ90-155-S-NO	FZ90-155-S-NC	Unit
Single stroke	13	13	13	6	6	6	mm
Product weight	2.7	3.2	3.4	2.8	3.3	3.5	kg
Maximum allowable gripping distance	170	170	170	160	160	160	mm
Theoretical maximum gripping force: opening/closing	515P/490P	515P/-	-/490P	810P/770P	810P/-	-/770P	N
Gas consumption of single opening and closing cycle	1.1	1.6	1.6	1.1	1.6	1.6	L
Minimum Spring Locking Force		920	920		1850	1850	N
Workpiece weight	15.5	15.5	15.5	28	28	28	kg
Opening/closing time	0.2/0.2	0.2/0.35	0.35/0.2	0.2/0.2	0.2/0.35	0.35/0.2	s

Maximum allowable single-finger gripping weight/kg	2	Specification of air connection port	G1/8
Repeated gripping accuracy/mm	± 0.02	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40

FZ90-155-M/S

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

FZ90-155-C30 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 105N.

FZ90-155-NC/NO Self-locking

Built-in spring, mechanical self-locking

FZ90-155-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

FZ90-155-B Ventilation at bottom

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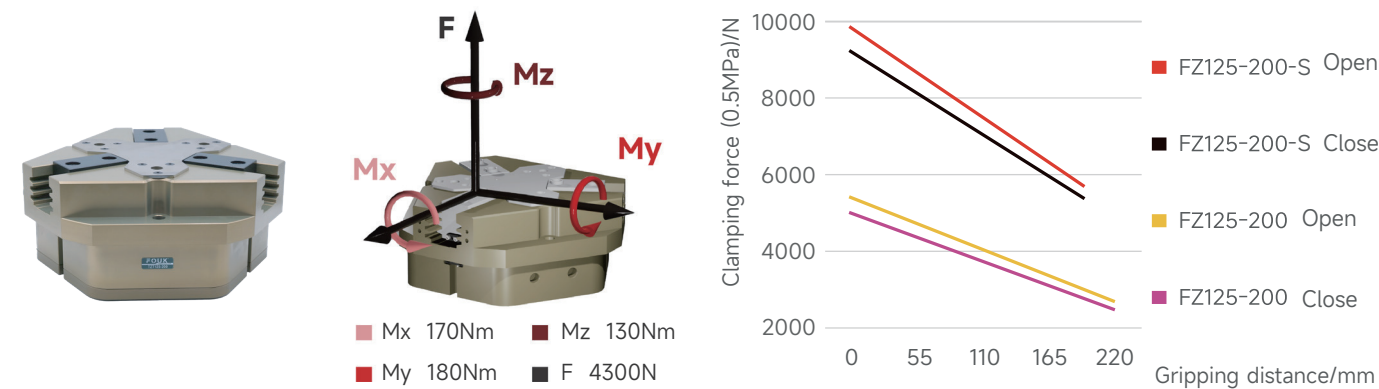
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Toothed three-finger gripper series FOUK-FZ

FZ125-200

Static load-bearing torque

Gripping force curve



FZ 125-200 - S - B - C35 - P - NO - H

Serial No. **FZ** Toothed three-finger gripper

Cylinder bore

Maximum shell diameter

Short stroke **S** Increased gripping force Standard version M

Ventilation at bottom **/** Ventilation on the side

Length of push rod **C35** 35mm **C43** 43mm **/** Without push plate

Dust cover IP64 **/** Without dust cover

Self-locking form **NO** Self-locking by opening **NC** Self-locking by closing **/** Without self-locking

High temperature resistance **H** ~5~240°C **/** 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

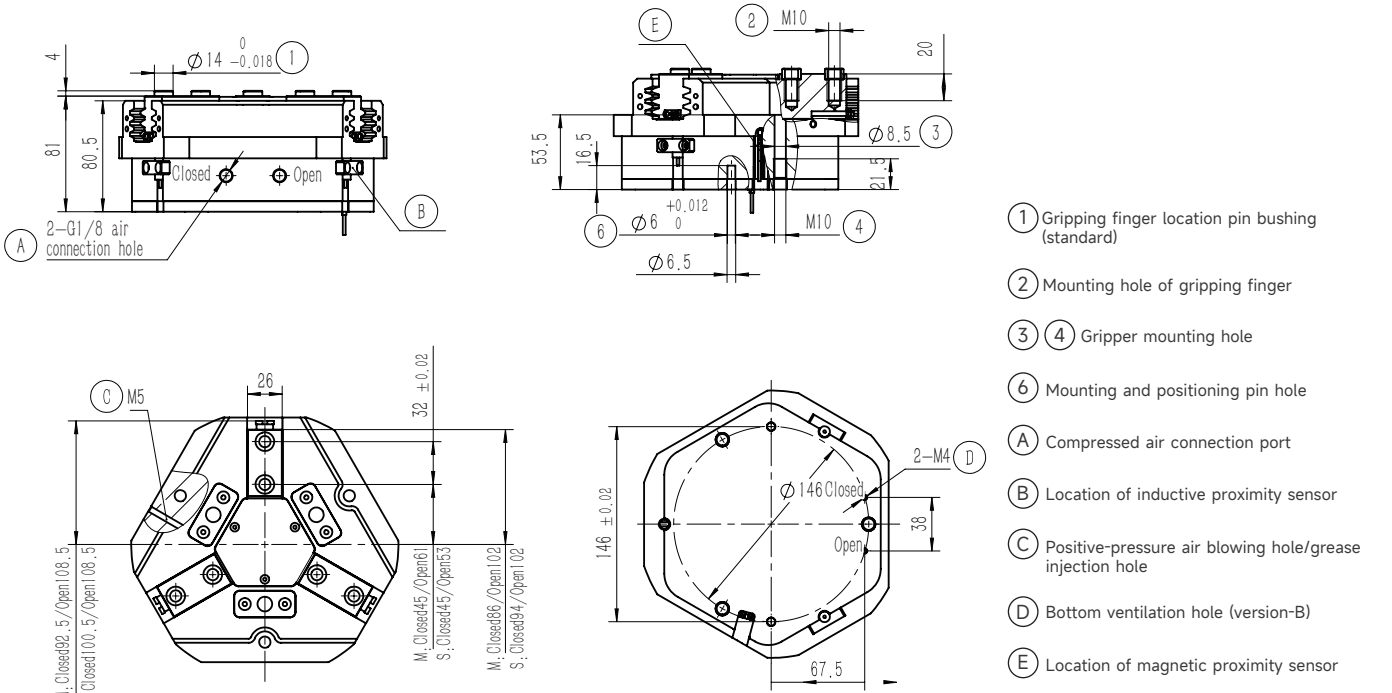
*Two sensors are required for each gripper. For the detailed monitoring of two positions, see the sensor appendix.

Product attributes	FZ125-200	FZ125-200-NO	FZ125-200-NC	FZ125-200-S	FZ125-200-S-NO	FZ125-200-S-NC	Unit
Single stroke	16	16	16	8	8	8	mm
Product weight	6	8	8	6	8	8	kg
Maximum allowable gripping distance	220	220	220	190	190	190	mm
Theoretical maximum gripping force: opening/closing	1080P/1000P	1080P/-	-/1000P	1960P/1830P	1960P/-	-/1830P	N
Gas consumption of single opening and closing cycle	3.0	5.3	5.3	3.0	5.3	5.3	L
Minimum Spring Locking Force		1650	1550		3300	3100	N
Workpiece weight	30	30	30	55	55	55	kg
Opening/closing time	0.5/0.5	0.4/0.8	0.8/0.4	0.5/0.5	0.4/0.8	0.8/0.4	s

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

Maximum allowable single-finger gripping weight/kg	3.5	Specification of air connection port	G1/8
Repeated gripping accuracy/mm	± 0.03	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40

FZ125-200-M/S

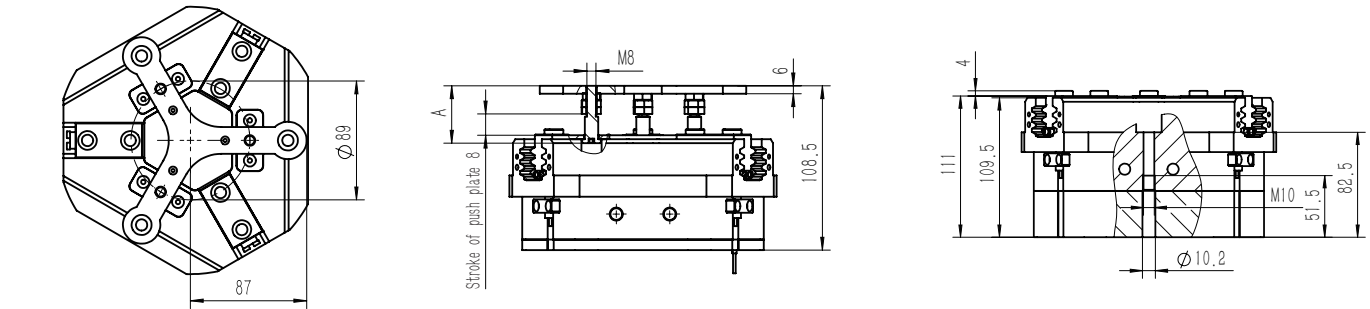


FZ125-200-C35 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 120N. If it is dust-proof and provided with the push plate, the stroke is 5.5.

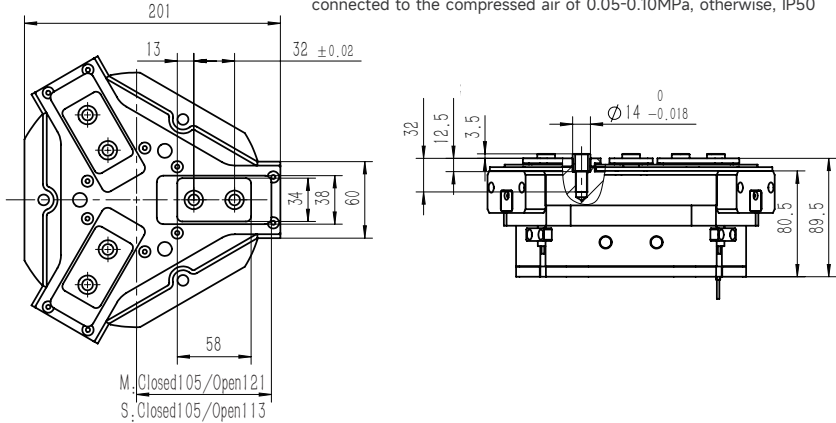
FZ125-200-NC/NO Self-locking

Built-in spring, mechanical self-locking

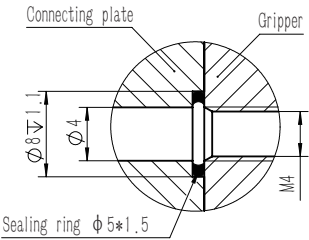


FZ125-200-P Dust-proof

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



FZ125-200-B Ventilation at bottom



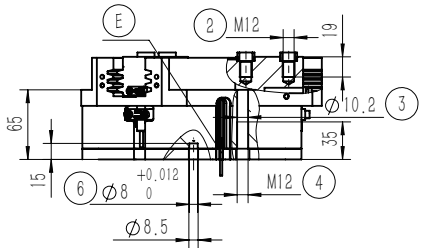
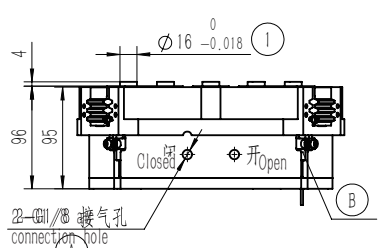
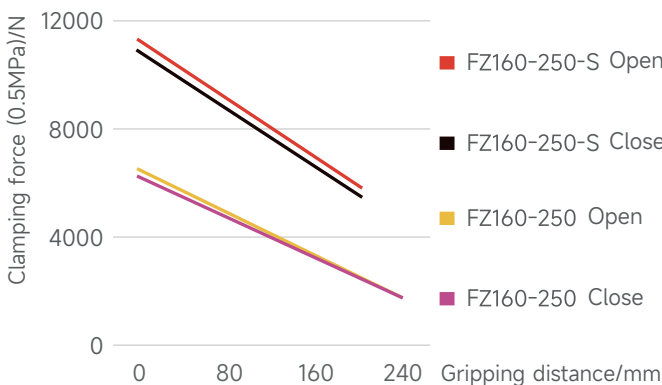
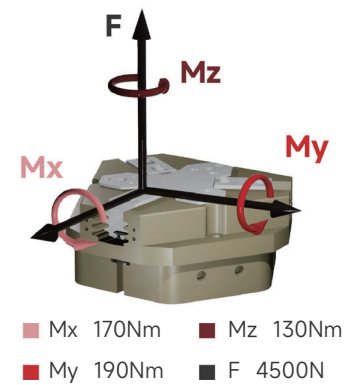
Toothed three-finger gripper series FOUK-FZ

FZ160-250-M/S

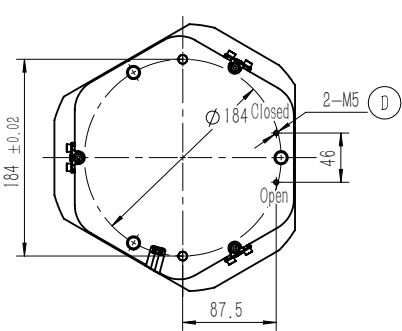
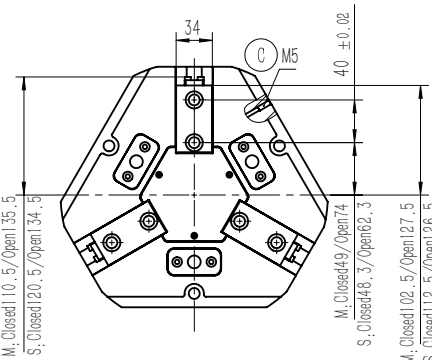
FZ160-250

Static load-bearing torque

Gripping force curve



- ① Gripping finger location pin bushing (standard)
- ② Mounting hole of gripping finger
- ③ ④ Gripper mounting hole
- ⑥ 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

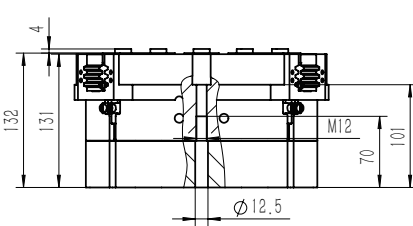
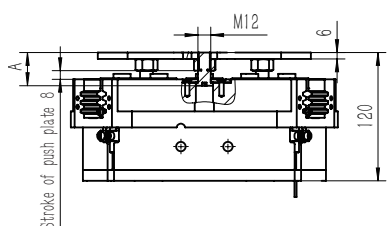
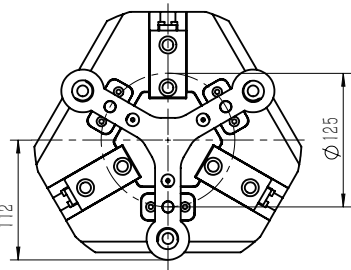


FZ160-250-C30 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 210N.

FZ160-250-NC/NO Self-locking

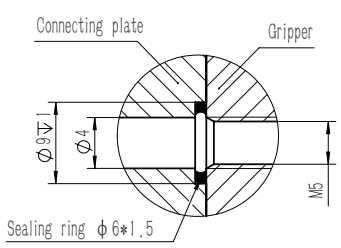
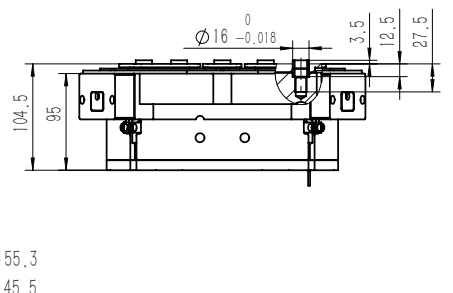
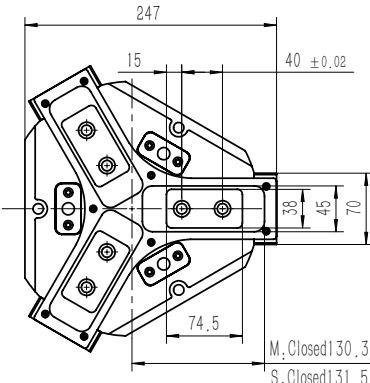
Built-in spring, mechanical self-locking



FZ160-250-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

FZ160-250-B Ventilation at bottom



FZ 160-250 - S - B - C30 - P - NO - H

Serial No. CZ Toothed three-finger gripper

Cylinder bore

Maximum shell diameter

Short stroke S Increased gripping force Standard version M

Ventilation at bottom / Ventilation on the side

Length of push rod C30 30mm C55 55mm / Without push plate

Dust cover IP64 / Without dust cover

Self-locking form NO Self-locking by opening NC Self-locking by closing / Without self-locking

High temperature resistance H -5~240°C / 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	FZ160-250	FZ160-250-NO	FZ160-250-NC	FZ160-250-S	FZ160-250-S-NO	FZ160-250-S-NC	Unit
Single stroke	25	25	25	14	14	14	mm
Product weight	10.5	13.5	13.5	10.5	13.5	13.5	kg
Maximum allowable gripping distance	240	240	240	200	200	200	mm
Theoretical maximum gripping force: opening/closing	1300P/1250P	1300P/-	-/1250P	2260P/2170P	2260P/-	-/2170P	N
Gas consumption of single opening and closing cycle	5	7.2	7.2	5	7.2	7.2	L
Minimum Spring Locking Force		3460	2000		3460	2000	N
Workpiece weight	39	39	39	67	67	67	kg
Opening/closing time	1.2/1.2	1/1.5	1.5/1	1.2/1.2	1/1.5	1.5/1	s

P: Compressed air pressure [bar]

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

Maximum allowable single-finger gripping weight/kg	6	Specification of air connection port	G1/8
Repeated gripping accuracy/mm	± 0.02	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40

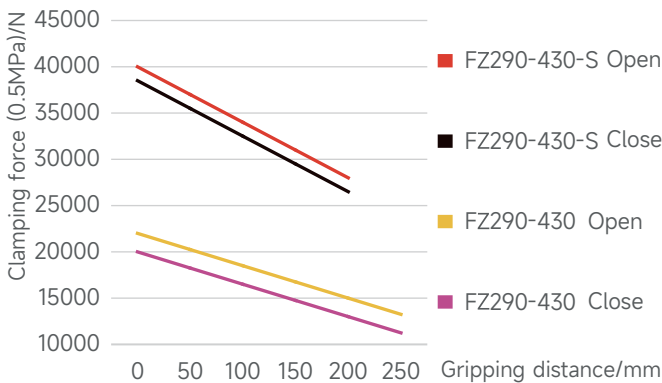
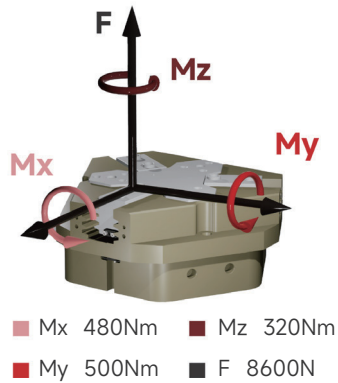
Toothed three-finger gripper series FOUK-FZ

FZ290-430-M/S

FZ290-430

Static load-bearing torque

Gripping force curve



FZ 290-430 - S - B - P - NO - H

Serial No.	Cylinder bore	Maximum shell diameter	Short stroke	Ventilation at bottom	Dust cover IP64	Self-locking form	High temperature resistance
FZ Toothed three-finger 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

IPSD-2NS-0848-L3	Inductive, NPN, 3-core3m
IPSD-2PS-0848-L3	Inductive, PNP, 3-core3m

Magnetic proximity sensor

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

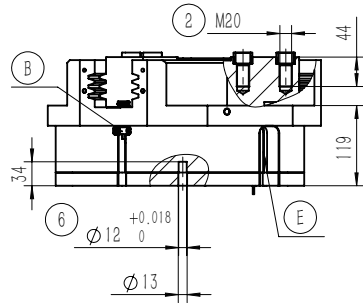
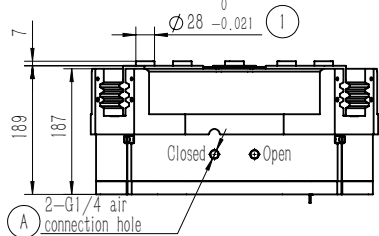
*Two sensors are required for each gripper. For the detailed monitoring of two positions, see the sensor appendix.

Product attributes	FZ290-430	FZ290-430-NO	FZ290-430-NC	FZ290-430-S	FZ290-430-S-NO	FZ290-430-S-NC	Unit
Single stroke	45	45	45	26	26	26	mm
Product weight	70	90	81	72	92	83	kg
Maximum allowable gripping distance	260	260	260	210	210	210	mm
Theoretical maximum gripping force: opening/closing	4400P/4000P	4400P/-	-/4000P	8000P/7700P	8000P/-	-/7700P	N
Gas consumption of single opening and closing cycle	38	49	50	38	49	50	L
Minimum Spring Locking Force		5300	5200		9600	9400	N
Workpiece weight	130	130	130	220	220	220	kg
Opening/closing time	2.2/2.2	1.9/4.6	3/1.9	2.2/2.2	1.9/4.6	3/1.9	s

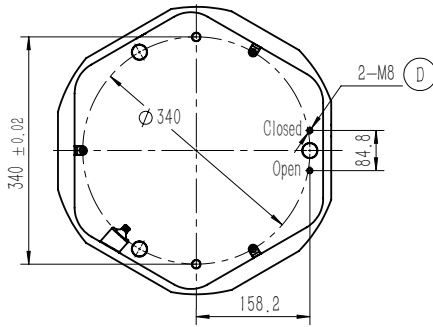
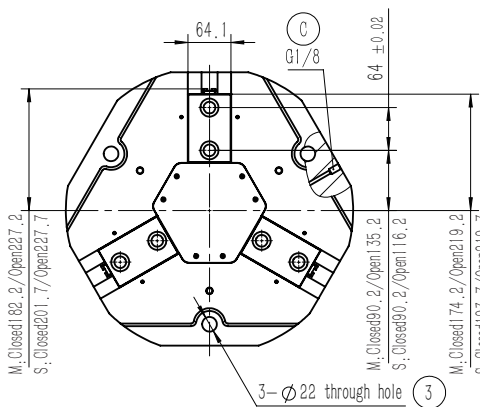
P: Compressed air pressure [bar]

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

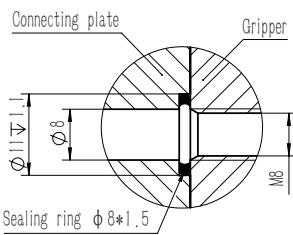
Maximum allowable single-finger gripping weight/kg	15	Specification of air connection port	G1/4
Repeated gripping accuracy/mm	± 0.05	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40



- 1 Gripping finger location pin bushing (standard)
- 2 Mounting hole of gripping finger
- 3 Gripper mounting hole
- 6 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

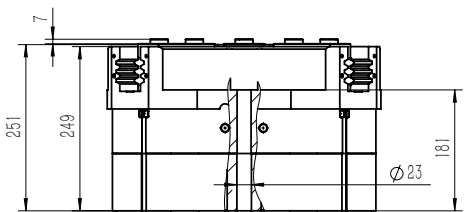


FZ290-430-B Ventilation at bottom



FZ290-430-NC/NO Self-locking

Built-in spring, mechanical self-locking



FZ290-430-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

