



TF powerful four-finger gripper series FOUK-TF

The pneumatic four-finger centering gripper, with the T-shaped load-bearing structure, supports different push plates. Its quenching spring has a service life of more than 500,000 times. The gripping force of the four-finger gripper is uniform, which can stably grip objects and prevent damage.





Usage Video of TF Series Products

Another option for gripping square products

For the gripping of square products with centering requirements, TF series is another preferred solution other than FR.



Structural Design of T-shaped Guide Rail

With the classic T-shaped guide rail structure, the hard rail surface has excellent bearing capacity

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.









Gripper body





Product Code	Single stroke/mm	Open Gripping Force: N	Close Gripping Force: N	Workpiece weight/kg	Product weight/kg	Page
TF33-56	4	74 × P	68 × P	1.5	0.3	76
TF42-71	6	120 × P	108 × P	3	0.55	78
TF55-99	8	200 × P	186 × P	5	1.1	80
TF75-118	10	386 × P	370 × P	9	1.6	82
TF95-145	13	620 × P	590 × P	14	2.9	84

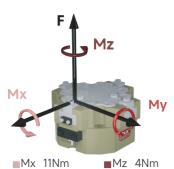
P: Compressed air pressure [bar] Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

TF33-56

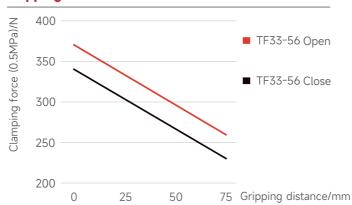
TF33-56

Static load-bearing torque Gripping force curve

Parallel gripper long stroke series FOUK-TF

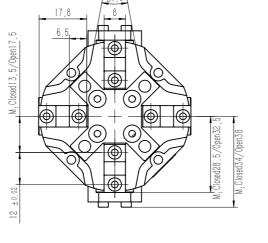


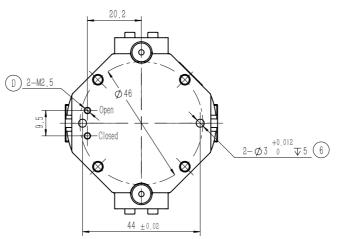
■My 12Nm

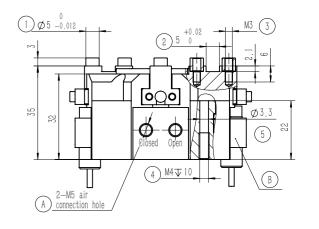












- (1) Gripping finger location pin bushing (standard)
- (2) Gripping finger positioning groove
- 3 Mounting hole of gripping finger
- 4 5 6 Gripper mounting hole
- 6 Gripper mounting and positioning
- (A) Compressed air connection port
- B Location of inductive proximity sensor
- © Positive-pressure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

Product attributes	TF33-56	Unit
Single stroke	4	mm
Product weight	0.3	kg
Maximum allowable gripping distance	75	mm
Theoretical maximum gripping force: opening/closing	74P/68P	N
Workpiece weight	1.5	kg
Opening/closing time	0.02/0.02	S
Gas consumption of single opening and closing cycle	0.06	L

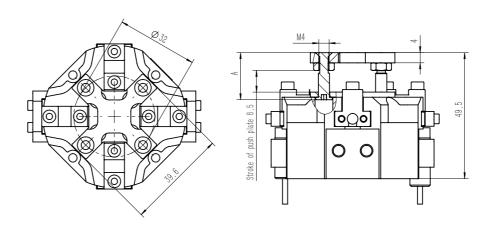
P: Compressed air pressure [bar] Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

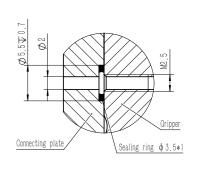
Repeated gripping accuracy/mm	± 0.02	Specification of air connection port	M5
Operating air pressure range/bar	3~7	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	0.2

TF33-56-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 16N.

TF33-56-B Ventilation at bottom





TF42-71

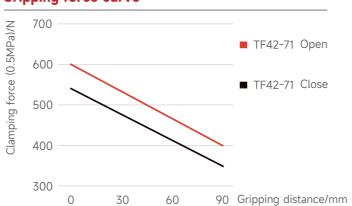
Static load-bearing torque Gripping force curve

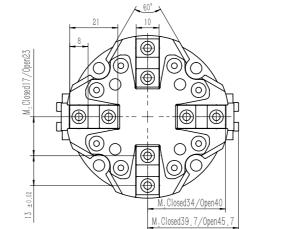
Parallel gripper long stroke series FOUK-TF

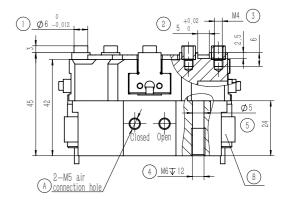
■Mx 23Nm ■Mz 23Nm

■F 640N

■My 34Nm







(1) Gripping finger location pin bushing (standard)

(2) Gripping finger positioning groove

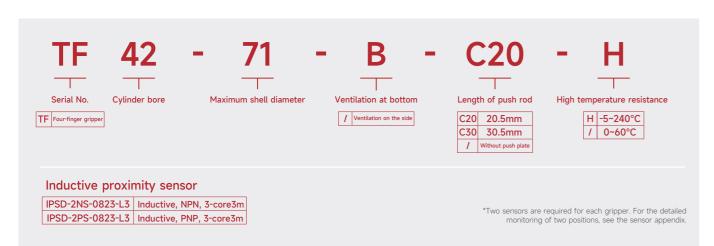
3 Mounting hole of gripping finger

4 5 6 Gripper mounting hole

6 Gripper mounting and positioning

© Positive-pressure air blowing hole/grease injection hole

D Bottom ventilation hole (version-B)



Product attributes	TF42-71	Unit
Single stroke	6	mm
Product weight	0.6	kg
Maximum allowable gripping distance	90	mm
Theoretical maximum gripping force: opening/closing	120P/108P	N
Workpiece weight	2.5	kg
Opening/closing time	0.02/0.02	S
Gas consumption of single opening and closing cycle	0.18	L

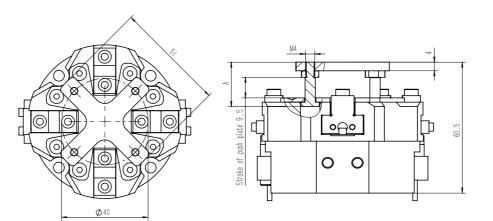
P: Compressed air pressure [bar] Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

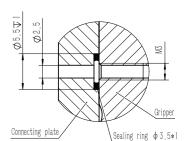
Repeated gripping accuracy/mm	± 0.02	Specification of air connection port	M5
Operating air pressure range/bar	3~7	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	0.5

TF42-71-C20 Pushing

2-Ø4 0 T10 6

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 48N.





(A) Compressed air connection port

B Location of inductive proximity sensor

TF42-71-B Ventilation at bottom

TF55-99

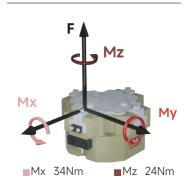
FOUK-TF

TF55-99

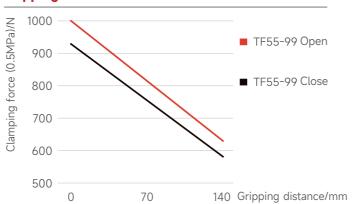
Static load-bearing torque Gripping force curve

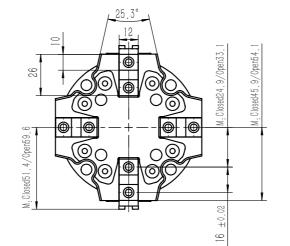
■My 54Nm

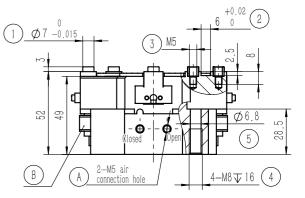
Parallel gripper long stroke series FOUK-TF

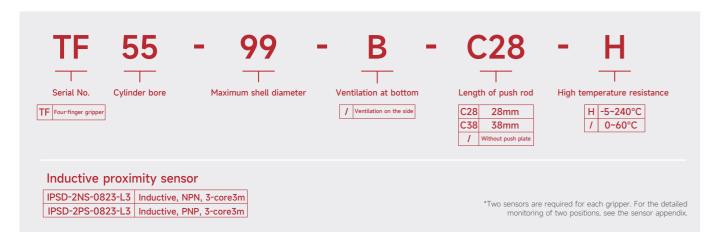


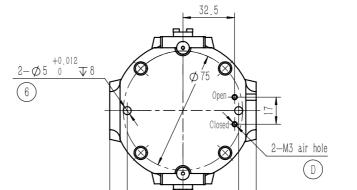
■F 825N











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

Product attributes	TF55-99	Unit
Single stroke	8	mm
Product weight	1.1	kg
Maximum allowable gripping distance	140	mm
Theoretical maximum gripping force: opening/closing	200P/186P	N
Workpiece weight	4.5	kg
Opening/closing time	0.04/0.04	s
Gas consumption of single opening and closing cycle	0.3	L

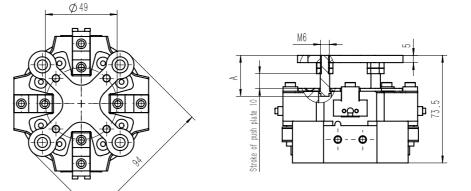
P: Compressed air pressure [bar] Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

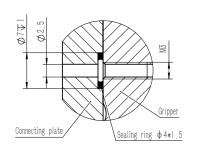
Repeated gripping accuracy/mm	± 0.02	Specification of air connection port	M5
Operating air pressure range/bar	3~7	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	0.75

TF55-99-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 16N.

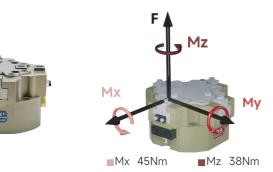
TF55-99-B Ventilation at bottom





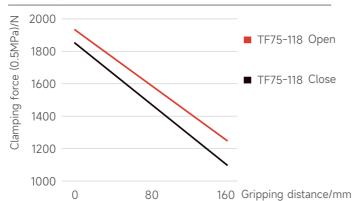
TF75-118

Static load-bearing torque Gripping force curve



■My 68Nm

Parallel gripper long stroke series FOUK-TF





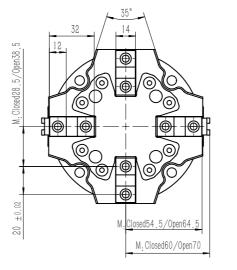
Serial No.	Cylinder bore	- 118 Maximum shell diameter	Ventilation at bottom / Ventilation on the side	Length of push rod C30 30mm C40 40mm / Without push plate	High temperature resistance H -5-240°C / 0-60°C
IPSD-2NS-08	proximity senso 23-L3 Inductive, NF 23-L3 Inductive, PN	PN, 3-core3m		*Two sensors are r	equired for each gripper. For the deta

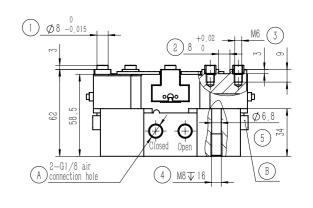
■F 1125N

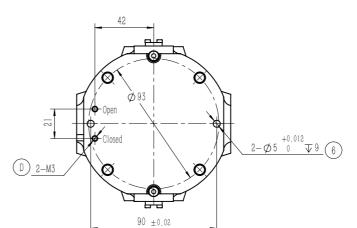
Product attributes	TF75-118	Unit
Single stroke	10	mm
Product weight	1.6	kg
Maximum allowable gripping distance	160	mm
Theoretical maximum gripping force: opening/closing	386P/370P	N
Workpiece weight	8.5	kg
Opening/closing time	0.1/0.1	S
Gas consumption of single opening and closing cycle	0.8	L

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	3~7	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	1





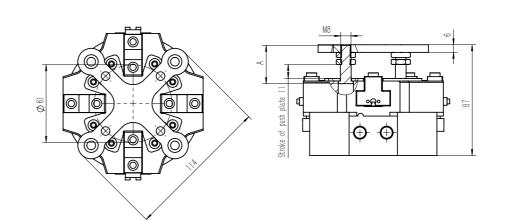


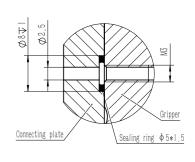


TF75-118-C30 Pushing

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 100N.

TF75-118-B Ventilation at bottom





D Bottom ventilation hole (version-B)

FOUK-TF

Static load-bearing torque

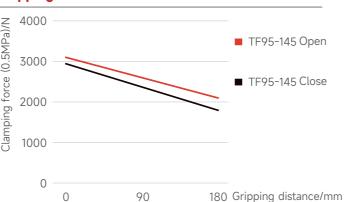
Parallel gripper long stroke series FOUK-TF

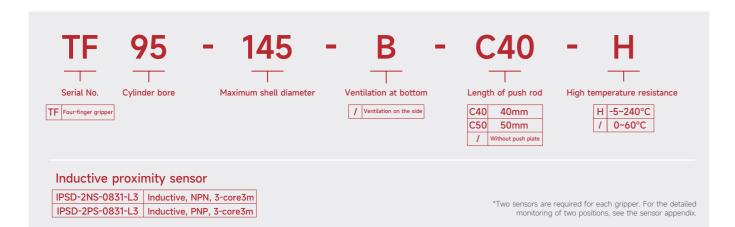
■Mx 68Nm ■Mz 57Nm

■F 1550N

■My 83Nm

Gripping force curve

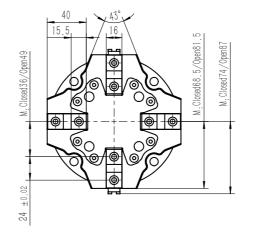


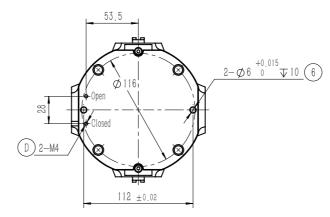


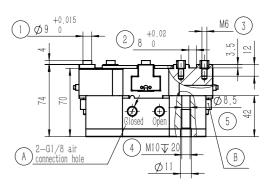
Product attributes	TF95-145	Unit
Single stroke	13	mm
Product weight	2.9	kg
Maximum allowable gripping distance	180	mm
Theoretical maximum gripping force: opening/closing	620P/590P	N
Workpiece weight	14	kg
Opening/closing time	0.15/0.15	S
Gas consumption of single opening and closing cycle	1.3	L

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	3~7	Temperature range of application/°C	-5~60
IP rating	40	Maximum allowable single-finger gripping weight/kg	1.5







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- 4 5 6 Gripper mounting hole
- 6 Gripper mounting and positioning
- (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)

TF95-145-C40 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 220N.

TF95-145-B Ventilation at bottom

