



## TZL three-finger gripper long stroke series FOUK-TZL

The long-stroke pneumatic three-finger gripper, with the T-shaped load-bearing structure, has floating thrust from the push plate. It has a service life of more than 500,000 times. With the dust-proof level of up to IP64 and the optional self-locking module, it can adapt to complex scenes and diversified requirements.

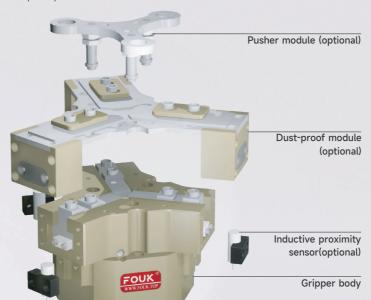




Usage Video of TZL Series Products

#### Higher possibility of workpiece compatibility

Compared with FZ series products with the same specification, it has larger opening and closing stroke, and it is more suitable for gripping workpieces with multiple specifications.



#### 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.



Single-finger stroke



Workpiece weight



1.2..8kg

Product weight 0.4..2.1kg



Quantity: 4

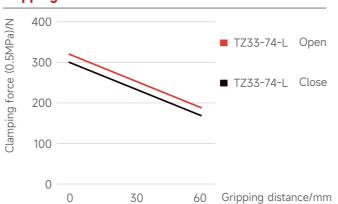
Workpiece weight/kg Product Open Gripping Force: N **Product Code** Single stroke/mm Close Gripping Force: N TZ33-74-L 8 64 × P 60 × P 1.2 0.4 66 TZ42-90-L 94 × P 2.5 11 104 × P 0.7 68 15 180 × P 168 × P 4.5 TZ55-113-L 1.3 70 TZ75-136-L 20 330 × P 316 × P 2.1 72

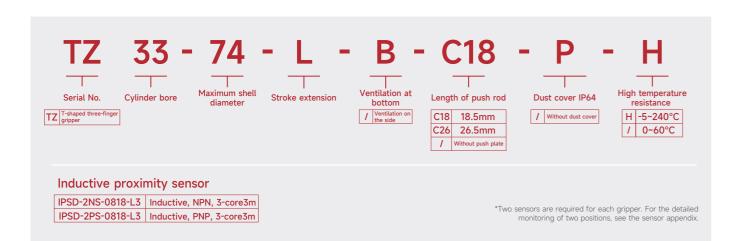
#### TZ33-74-L

#### Static load-bearing torque Gripping force curve

Three-finger gripper long stroke series FOUK-TZL

# ■Mx 14Nm ■Mz 5Nm **■**F 380N ■My 16Nm

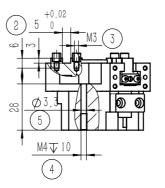


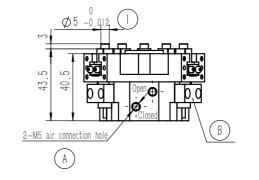


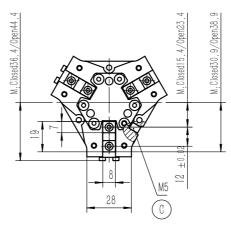
Product attributes	TZ33-74-L	Unit
Single stroke	8	mm
Product weight	0.4	kg
Maximum allowable gripping distance	60	mm
Theoretical maximum gripping force: opening/closing	64P/60P	N
Workpiece weight	1.2	kg
Opening/closing time	0.05/0.05	S
Gas consumption of single opening and closing cycle	0.1	L

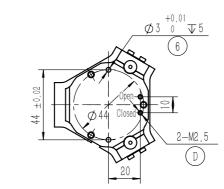
P: Compressed air pressure [bar] Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

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	0.15









(standard) Gripping finger location pin bushing

2 Gripping finger positioning groove

(3) Mounting hole of gripping finger

(4) (5) (6) Gripper mounting hole

6 Gripper positioning hole

(A) Compressed air connection port

B Location of inductive proximity sensor

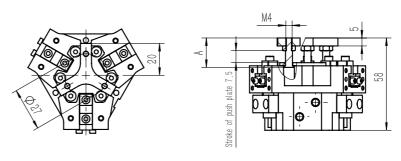
© Positive-pressure air blowing hole/grease injection hole

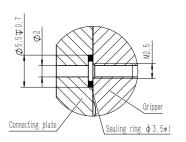
D Bottom ventilation hole (version-B)

#### TZ33-74-L-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 12N. If it is dust-proof and provided with the push plate, the stroke is 3.5.

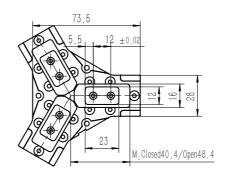
#### TZ33-74-L-B Ventilation at bottom

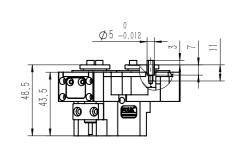




### TZ33-74-L-P Dust-proof

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





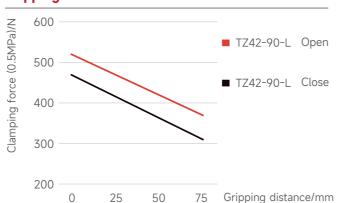
FOUK-TZL

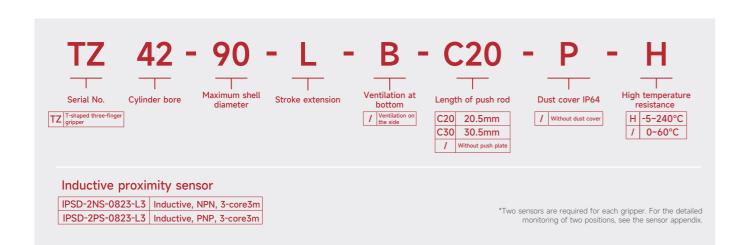
## TZ42-90-L

#### Static load-bearing torque Gripping force curve

Three-finger gripper long stroke series FOUK-TZL

# ■Mx 30Nm ■Mz 30Nm ■My 45Nm ■F 850N

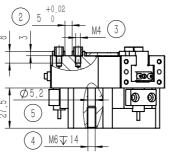


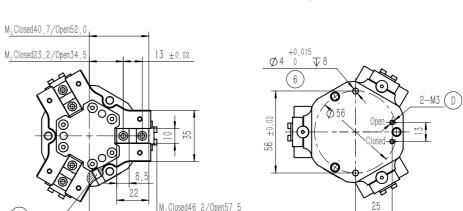


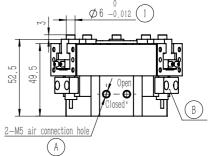
Product attributes	TZ42-90-L	Unit
Single stroke	11	mm
Product weight	0.7	kg
Maximum allowable gripping distance	75	mm
Theoretical maximum gripping force: opening/closing	104P/94P	N
Workpiece weight	2.5	kg
Opening/closing time	0.06/0.06	S
Gas consumption of single opening and closing cycle	0.25	L

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	0.35



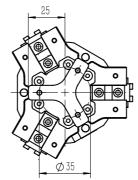


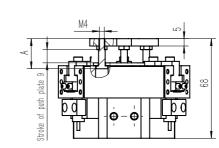


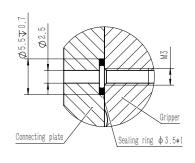
- Gripping finger location pin bushing (standard)
- 2 Gripping finger positioning groove
- (3) Mounting hole of gripping finger
- (4) (5) (6) Gripper mounting hole
- 6 Gripper positioning hole
- (A) Compressed air connection port
- (B) Location of inductive proximity sensor
- C Positive-pressure air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

#### TZ42-90-L-C20 Pushing

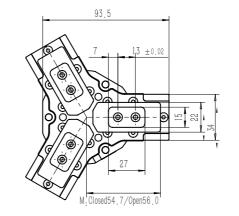
#### The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 36N. If it is dust-proof and provided with the push plate, the stroke is 6

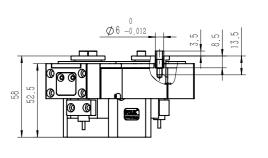






Dust-proof module, IP64 for the positive-pressure air blowing hole after it, is connected to the compressed air of 0.05-0.10MPa, otherwise, IP50



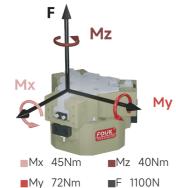


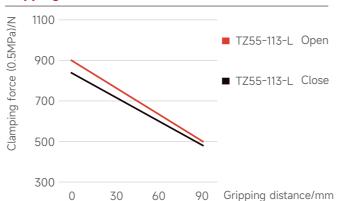
## TZ42-90-L-B Ventilation at bottom

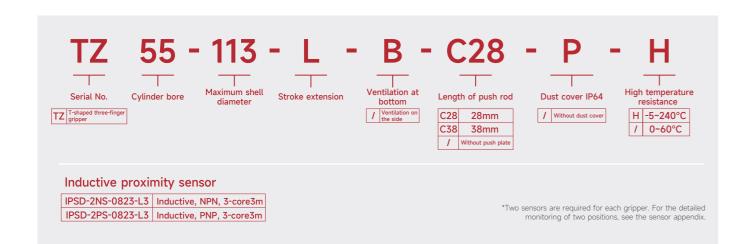
TZ55-113-L

Three-finger gripper long stroke series FOUK-TZL

## Static load-bearing torque Gripping force curve



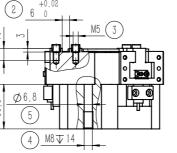


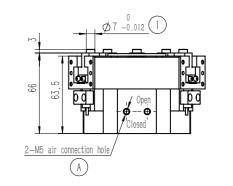


Product attributes	TZ55-113-L	Unit
Single stroke	15	mm
Product weight	1.3	kg
Maximum allowable gripping distance	90	mm
Theoretical maximum gripping force: opening/closing	180P/168P	N
Workpiece weight	4.5	kg
Opening/closing time	0.1/0.1	S
Gas consumption of single opening and closing cycle	0.6	L

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	0.6





Gripping finger location pin bushing (standard)

2 Gripping finger positioning groove

(3) Mounting hole of gripping finger

(4) (5) (6) Gripper mounting hole

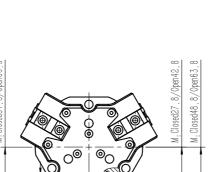
6 Gripper positioning hole

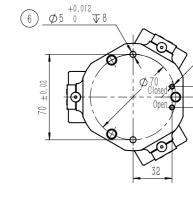
(A) Compressed air connection port

(B) Location of inductive proximity sensor

© Positive-pressure air blowing hole/grease injection hole

D Bottom ventilation hole (version-B)

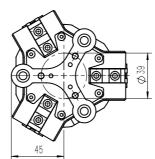


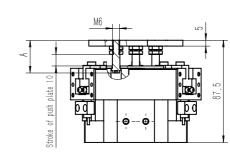


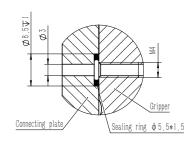
#### **TZ55-113-L-C28 Pushing**

#### TZ55-113-L-B Ventilation at bottom

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 12N. If it is dust-proof and provided with the push plate, the stroke is 5.5.

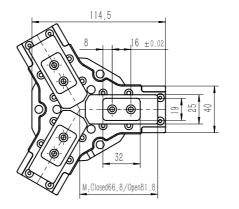


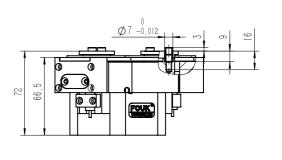




### TZ55-113-L-P Dust-proof

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





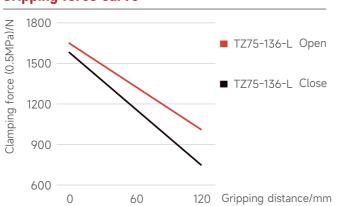
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## TZ75-136-L

#### Static load-bearing torque Gripping force curve

Three-finger gripper long stroke series FOUK-TZL

# ■Mx 60Nm ■Mz 50Nm **■**F 1500N ■My 90Nm

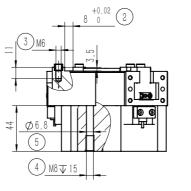


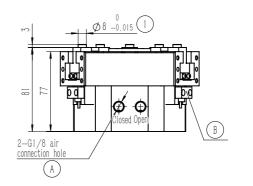


Product attributes	TZ75-136-L	Unit
Single stroke	20	mm
Product weight	2.1	kg
Maximum allowable gripping distance	120	mm
Theoretical maximum gripping force: opening/closing	330P/316P	N
Workpiece weight	8	kg
Opening/closing time	0.2/0.2	S
Gas consumption of single opening and closing cycle	1.2	L

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





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 positioning hole

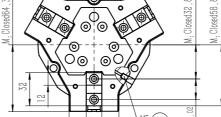
(A) Compressed air connection port

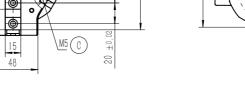
(B) Location of inductive proximity sensor

© Positive-pressure air blowing hole/grease injection hole

D Bottom ventilation hole (version-B)

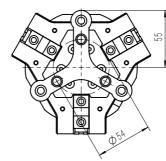
TZ75-136-L-B Ventilation at bottom

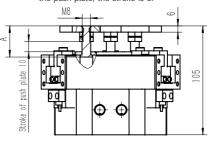


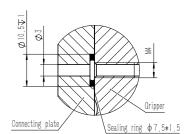


#### **TZ75-136-L-C30 Pushing**

#### The length A of the push rod can be of the standard version or the extended version, with loading the push plate, the stroke is 6

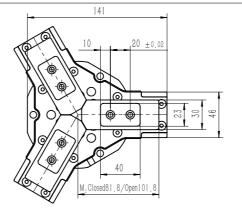


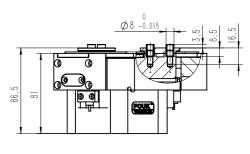




#### TZ75-136-L-P Dust-proof

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





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