

TXL Series

Vacuum Gripper -Combined Type



UNIVERSAL

Features

- ◇ The product is of modular structure
- ◇ The housing is made of high quality aluminum alloy
- ◇ Built-in large flow vacuum generator and external blower are optional
- ◇ Suction cup type and sponge type are optional for adsorption surface
- ◇ Built-in non-return valve can be selected

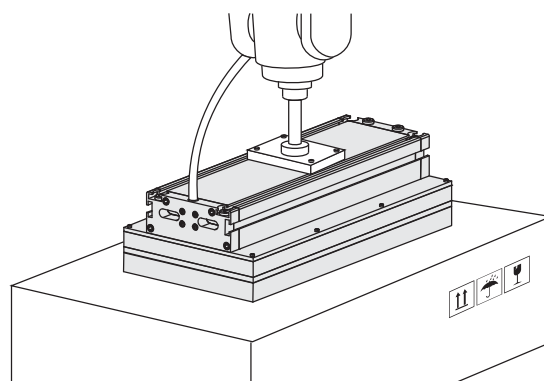
Advantages

- ◇ Different sizes can be combined freely
- ◇ High strength and light weight
- ◇ Fast reaction time
- ◇ Suitable for the handling of various industries
- ◇ It can meet the handling of different dimension workpieces



Applications

- ◇ Mainly used in the packaging industry, such as intelligent warehousing, intelligent logistics, stacking and unstacking, unmanned sorting, etc.
- ◇ With built-in non-return valve, it can be used to adsorb the workpieces with certain leakage, different sizes and different shapes
- ◇ Because of its light weight, it is very suitable for robots

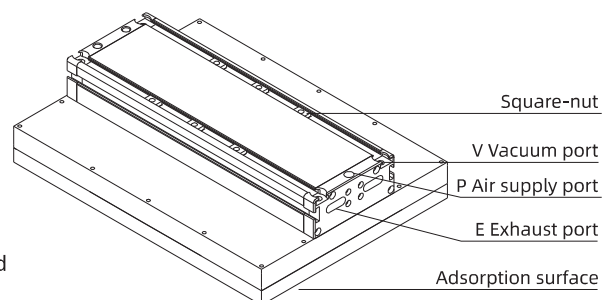


Vacuum gripper

- TXN
- TXD
- TXC
- TXM
- TXP
- TXH**
- TXL

Structure

- ◇ The main body is made of aluminum alloy, with T-shaped slots on the front and side respectively, which can be used for installation or mounting of the inductive switch
- ◇ It is equipped with Square-nut (M8 × 18 × 14 × 5.5)
- ◇ The gripper has one air supply port (G1/4F) and six vacuum ports (6-G1/8F), direct exhaust from the side of the air supply end cover
- ◇ Built-in vacuum generator type and external blower type can be selected
- ◇ Non-return valve is optional



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How to order

TXL 200×300 - A - C - V

① ② ③ ④ ⑤

① Series	② Dimension	③ Adsorption surface type	④ Vacuum source type	⑤ Non-return valve
TXL	200×300	A - sponge type	Nil-Blower type	Nil - Default, Without non-return valve (Throttling hole structure)
	200×400	B40 - suction cup type	C-Built-in vacuum generator	
	300×300			V - With non-return valve (Ball valve structure)
	300×400			

Selection-Vacuum generator type

Model/Adsorption surface type	A - Sponge type	B - Suction cup type
TXL200×300-□-C	TXL200×300-A-C	TXL200×300-B40-C
TXL200×300-□-C-V	TXL200×300-A-C-V	TXL200×300-B40-C-V
TXL200×400-□-C	TXL200×400-A-C	TXL200×400-B40-C
TXL200×400-□-C-V	TXL200×400-A-C-V	TXL200×400-B40-C-V
TXL300×300-□-C	TXL300×300-A-C	TXL300×300-B40-C
TXL300×300-□-C-V	TXL300×300-A-C-V	TXL300×300-B40-C-V
TXL300×400-□-C	TXL300×400-A-C	TXL300×400-B40-C
TXL300×400-□-C-V	TXL300×400-A-C-V	TXL300×400-B40-C-V

Selection-Blower type

Model/Adsorption surface type	A - Sponge type	B - Suction cup type
TXL200×300-□	TXL200×300-A	TXL200×300-B40
TXL200×300-□-V	TXL200×300-A-V	TXL200×300-B40-V
TXL200×400-□	TXL200×400-A	TXL200×400-B40
TXL200×400-□-V	TXL200×400-A-V	TXL200×400-B40-V
TXL300×300-□	TXL300×300-A	TXL300×300-B40
TXL300×300-□-V	TXL300×300-A-V	TXL300×300-B40-V
TXL300×400-□	TXL300×400-A	TXL300×400-B40
TXL300×400-□-V	TXL300×400-A-V	TXL300×400-B40-V

Technical parameters-Vacuum generator type

Model	Rated air supply pressure bar	Max. vacuum flow NL/min	Air consumption NL/min	Max. theoretical suction force N (-60kPa)	Weight (kg) V-with non-return valve	Recommended hose dia. mm	QTY of suction hole PCS
TXL200×300-A-C	6.0	710	230	415	4.1	1×φ10	126
TXL200×400-A-C	6.0	710	230	563	5.2	1×φ10	171
TXL300×300-A-C	6.0	1,050	345	646	5.8	1×φ10	196
TXL300×400-A-C	6.0	1,050	345	874	8.4	1×φ10	266
TXL200×300-B40-C	6.0	710	230	1,055	4.6	1×φ10	28
TXL200×400-B40-C	6.0	710	230	1,432	6.1	1×φ10	38
TXL300×300-B40-C	6.0	1,050	345	1,469	6.8	1×φ10	39
TXL300×400-B40-C	6.0	1,050	345	1,997	9.4	1×φ10	53

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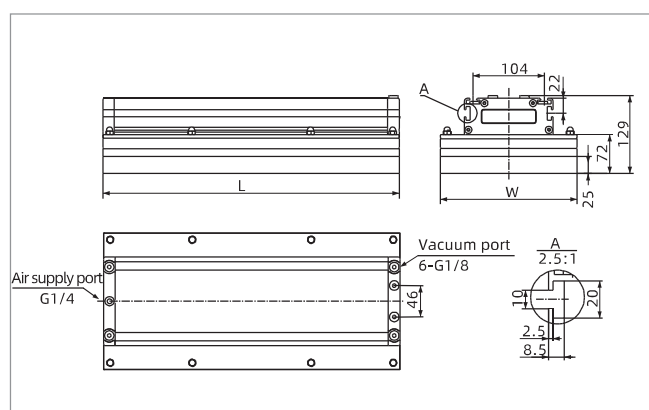
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Technical parameters-Blower type

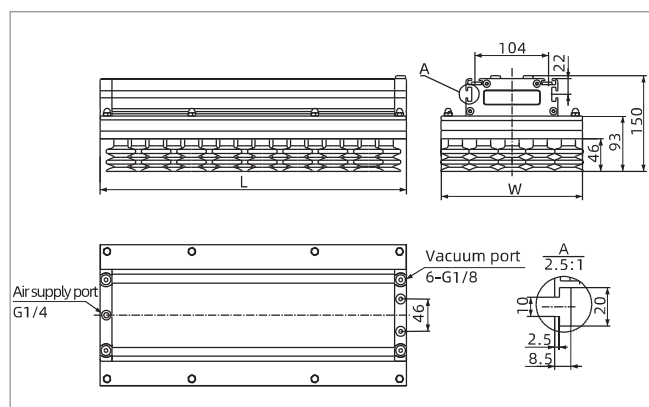
Model	Max.theoretical suction force N (-30kPa)	Max.theoretical suction force N (-40kPa)	Max.theoretical suction force N (-50kPa)	Max.theoretical suction force N (-60kPa)	Weight (kg) V-with non-return valve	Blower connection port dia. mm	QTY of suction hole PCS
TXL200×300-A-□	208	277	346	415	3.8	φ32	126
TXL200×400-A-□	282	375	469	563	4.9	φ32	171
TXL300×300-A-□	323	431	538	646	5.5	φ32	196
TXL300×400-A-□	437	583	728	874	8.1	φ60	266
TXL200×300-B40-□	526	701	879	1,055	4.3	φ32	28
TXL200×400-B40-□	714	950	1,193	1,432	5.8	φ32	38
TXL300×300-B40-□	733	975	1,224	1,469	6.5	φ32	39
TXL300×400-B40-□	996	1,325	1,664	1,997	9.1	φ60	53

◇ Note: The suction force in the above table is the theoretical suction force obtained under the condition that the vacuum gripper is fully covered by a rigid airtight workpiece, and without considering safety factor.

Dimensions(mm)



TXL Sponge type



TXL Suction cup type

Model/Size	L	W
TXL200×300-A-□	300	200
TXL200×400-A-□	400	200
TXL300×300-A-□	300	300
TXL300×400-A-□	400	300

Model/Size	L	W
TXL200×300-B40-□	300	200
TXL200×400-B40-□	400	200
TXL300×300-B40-□	300	300
TXL300×400-B40-□	400	300

Vacuum gripper

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Spare parts selection(mm)



A type sponge

B40 suction cup

Spare parts selection

Item	Model	Dimension mm
Sponge	TXL200×300-A5	200×300×25
	TXL200×400-A5	200×400×25
	TXL300×300-A5	300×300×25
	TXL300×400-A5	300×400×25
Suction cup	SPC40S	φ40

Example of modular



Selection remark:

1. In the selection of gripper series products, it is necessary to carefully check the operating conditions, and select a suitable gripper model according to the different features of the grabbing workpiece.
2. In the selection manual, the gripper which is driven by vacuum generator, is required to use clean and dry compressed air.
3. In the selection manual, for the gripper products driven by the blowers, select a suitable model of the blowers according to the recommendation. All products in the selection manual do not include the blower, the blower has to be purchased by the customer separately.
4. The air supply pressure in the selection manual refers to the air supply pressure of the product under the operating condition. It is recommended that the fluctuation range of the operating pressure value is within $\pm 10\%$ of the air supply pressure standard value.
5. The theoretical maximum suction value in the selection manual is the recommended value calculated according to the theory of grabbing specific workpieces under the specific vacuum level. It is only the reference for the gripper selection, and not the only basis for grabbing any workpieces by the gripper.
6. All models of the products in the manual can only work under normal temperature and pressure. If there is a need for use in special environment (high temperature, high humidity, high oil pollution, high dust, corrosiveness, radioactivity, etc.), please contact the company's customer service for consultation.
7. All products in the selection manual have rated life. The rated life of each product is determined by the surface roughness, material, hardness, working condition environment, use frequency and other factors. Customers can contact the company's customer service according to the specific application conditions.
8. In order to prolong the operation life of the adsorption surface (sponge / rubber suction cup) of the gripper, it is suggested that the normal use method: when grabbing the workpiece, first contact closely the workpiece, and then open the vacuum; When placing the workpiece, first stabilize the workpiece, and then turn off the vacuum.
9. In order to improve product quality and customer experience, we will continuously improve the product, and inform customers of the update information in time.