

OVERALL SOLUTIONS FOR ROBOTIC END-EFFECTOR

★ GRIPPING SYSTEMS ROBOTIC GRIPPING SYSTEMS

- PRESS AUTOMATION TOOLING
- TRANSFER GRIPPERS
- HOT STAMPING GRIPPERS

★ PNEUMATIC GRIPPERS

★ AUTOMATIC TOOL CHANGERS

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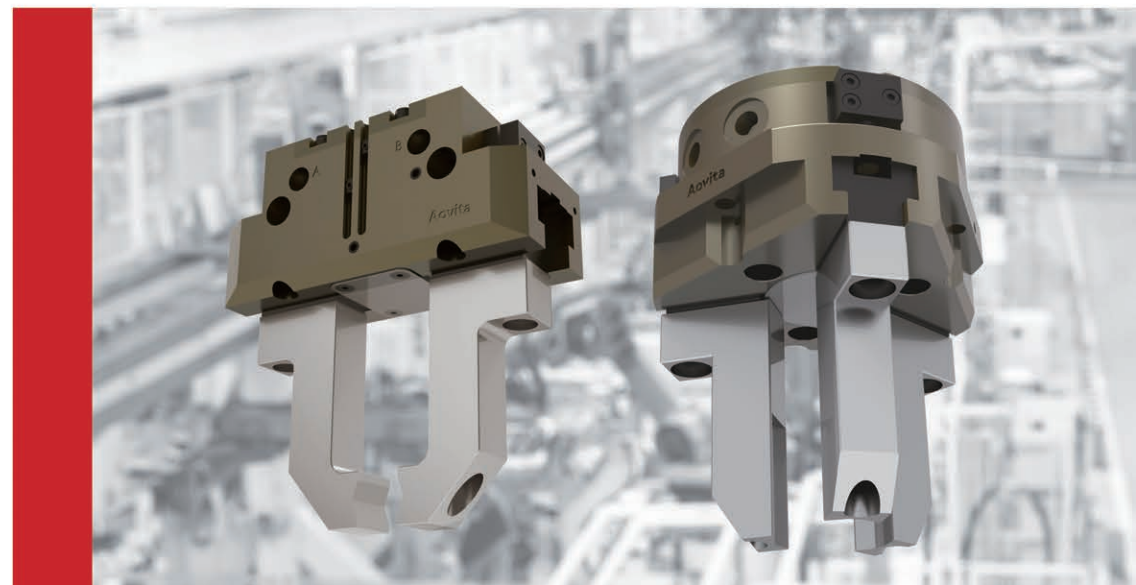
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OVERALL SOLUTIONS FOR PNEUMATIC GRIPPERS



Since **2000**

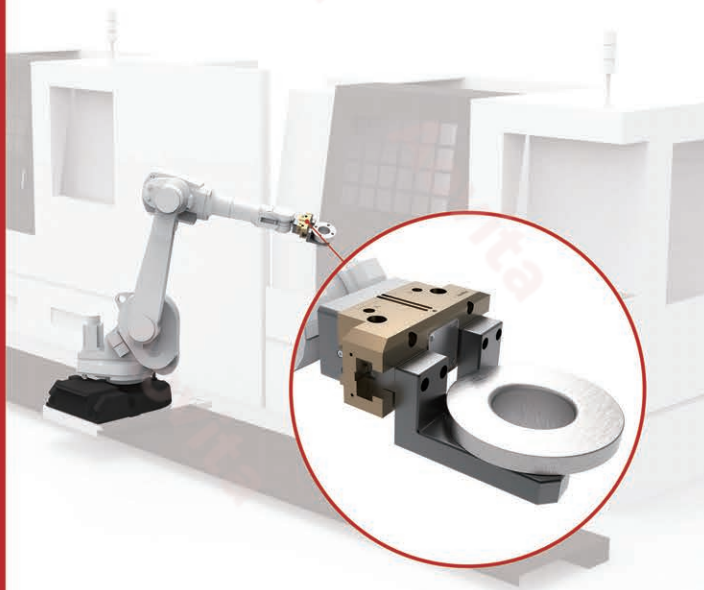
Jinan Aotto Technologies Co., Ltd.

Aotto

Aovita®

Jinan Aotto Tooling Team implements the mission of "promoting industrial upgrading with advanced automation products and services, creating value for customers and society", and strives to create **Aovita®** intelligent grabbing products.

The **Aovita®** team adheres to the core concept of Aotto "dedication to innovation and pursuit of excellence", using the "high reliability" of the product to improve the startup rate of automatic lines, reduce maintenance costs, and use the "high cost-effectiveness" of the product to reduce overall equipment investment, promoting the popularization of automation. We are committed to creating a one-stop supply platform for intelligent grabbing products. We have products with robot tool changer, vacuum products, gripper products, magnetic suction products, needle grabbing products, and could provide overall intelligent gripping solutions.

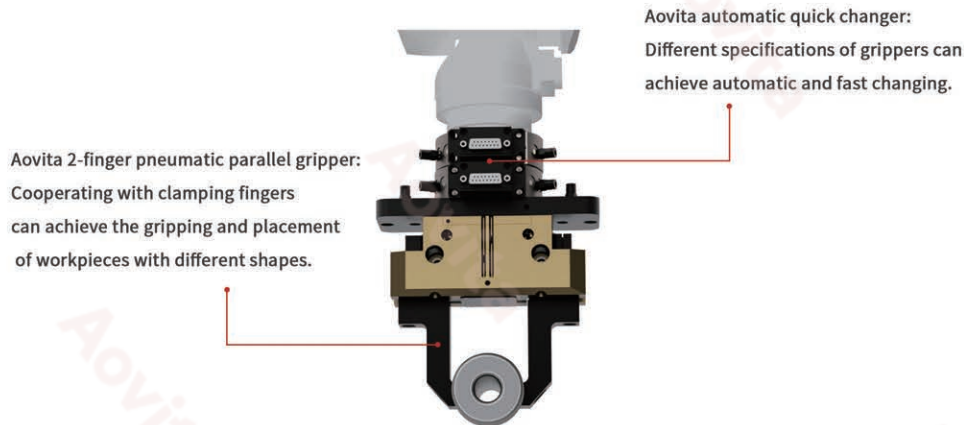


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□ Product introduction

Aovita® robot gripper is installed at the end of an industrial robot arm for gripping workpieces or performing operations. It can be used in conjunction with the industrial robot arm to achieve various workpiece clamping and handling operations. The combination of the robotic arm and the gripper could be worked as human arms.



□ Advantages and values of gripper

■ Wide application

- Compact design for large clamping force with minimal interference.
- Standard mounting holes ensure compatibility and easy interchangeability.
- High-strength, lightweight body reduces robot load.
- Multiple mounting and air connection options for easy, efficient, and versatile installation.

■ High safety

- Adopting a fully enclosed T-slot heavy-duty high hardness guidance, with an elliptical piston drive design and a wedge-shaped transmission mechanism, the structure is sturdy and the clamping is stable.
- Integrated with clamping, loosening and positioning detection, it with mechanical self-locking and pressure holding self-locking functions to provide the user safe and reliable automated production.

■ Reduce costs and increase efficiency for users

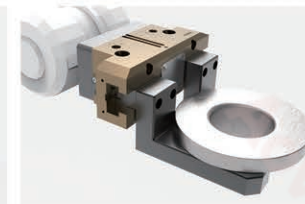
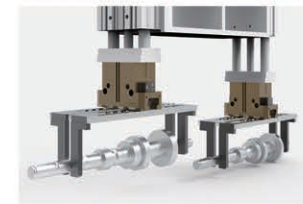
- The key components adopt customized special surface treatment technology to improve the wear and corrosion resistance of the product. The self-lubricating design at critical positions basically achieves maintenance free and high reliability.
- Continuous and stable automated production can reduce personnel configuration and maintenance costs for enterprises, lowering production costs for users, and improving production efficiency.

■ High quality, reliability, and cost-effectiveness

- Aotto has complete ISO9001 quality management system which can achieve full process control of production and ensure manufacturing quality.
- The raw material of the products had strict control to ensure the product quality. Customized surface treatment and heat treatment processes, and self-made core components ensured the high manufacturing accuracy.
- Focus on providing high cost-effective robotic products so that to reduce the costs for the users and improved the popularization.

□ Application scenarios

Aovita® pneumatic grippers are suitable for handling and assembling large and medium-sized parts in industries such as machining, automotive parts, casting and forging, new energy, packaging, education and scientific research, etc.



◀ 2-finger parallel gripper to grip shaft/flange parts



◀ 3-finger centric gripper to grip circular/axial parts



Machining



automotive



Packaging

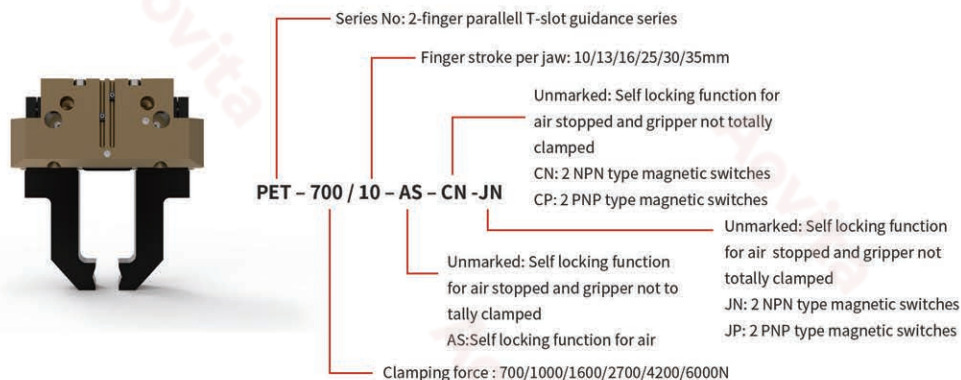


New energy



Education

Ordering instructions



Aovita® PET Series pneumatic grippers:

PET-700/10 : Gripping force 700N Stroke per Jaw 10mm

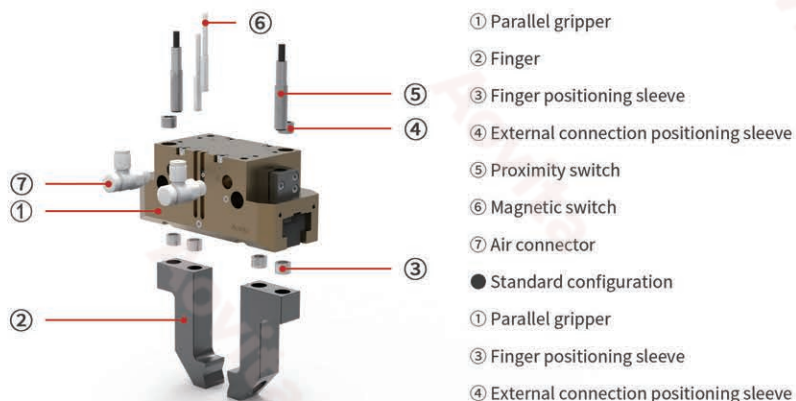
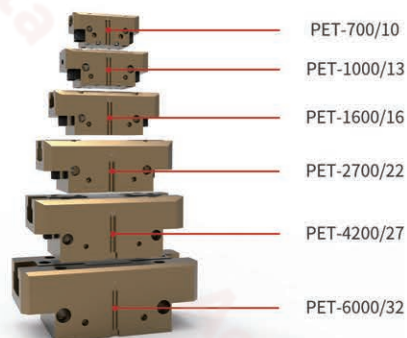
PET-1000/13: Gripping force 1000N Stroke per Jaw 13mm

PET-1600/16: Gripping force 1600N Stroke per Jaw 16mm

PET-2700/22: Gripping force 2700N Stroke per Jaw 22mm

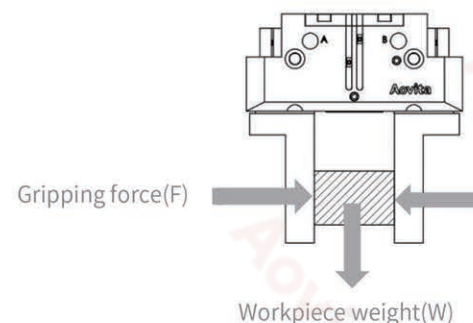
PET-4200/27: Gripping force 4200N Stroke per Jaw 27mm

PET-6000/32: Gripping force 6000N Stroke per Jaw 32mm



Selection instructions

Quick selection method for frictional grasping



Condition: The workpiece needs to be clamped with a weight of 3Kg and a robot handling acceleration of 0.5g, and requirement of the stroke per jaw is 8mm.

According to different operating conditions, the weight of the workpiece that the gripper can be selected with the following sheet:

2-Finger parallel gripper		
Model	Clamp forcing	
	Slow handing	Rapid acceleration and deceleration handing
PET-700/10	5. 3kg	3. 5kg
PET-1000/13	8kg	5. 5kg
PET-1600/16	12. 2kg	8. 4kg
PET-2700/22	20. 6kg	13. 7kg
PET-4200/27	32kg	21. 4kg
PET-6000/32	45. 9kg	30. 5kg

From the sheet, we can see the model PET-700/10, the clamp forcing is 700N, stroke per jaw is 10mm that could meet the requirement.

Here we offer a simple method for selecting the right model. However, the weight of the workpiece depends on factors such as the shape of the object, material friction coefficient, and motion acceleration. The finger length and the gravity of the object can also affect the loading, for precise selection which you can check the select instruction on page 7.

■ Precise selection instruction of the gripper

Condition: The workpiece needs to be clamped with a weight of 3Kg, material of 45 #, and a robot handling acceleration of 0.5g.
The requirement of the stroke of jaw is 8mm.

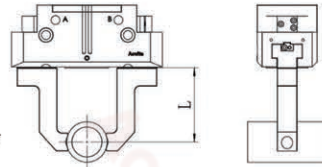
1. Select gripper type: PET 2-finger parallel gripper/PST 3-finger centric gripper
2. Select gripper material: 45# steel

$$\text{calculation of clamp forcing: } F = \frac{m(g+a)}{u} * s = \frac{3kg(9.8+4.9)m/s^2}{0.15} * 2 = 588 \text{ N}$$

Workpiece weight: M=3kg Gravity acceleration: G=9.8m/s²

Robot handling acceleration: A=4.9m/s²

Friction coefficient: U=0.15 Safety factor: S=2



Friction coefficient of common materials		
Material of the contact area between the gripper and the workpiece	Material of workpiece	Static friction coefficient
Steel	Steel	0.15
	Aluminium	0.17
	Copper	0.15-0.19
	Cast iron	0.2-0.3

3. From the requirement, If the clamping force is 700N>588N, choose PET-700/10

4. Design the clamp finger and determine the position of the clamping point between the clamp finger and the workpiece.

The distance between the clamp point of the finger and the installation surface of the workpiece: Z=60mm

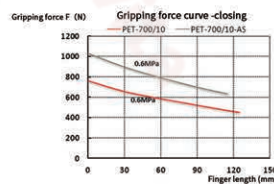
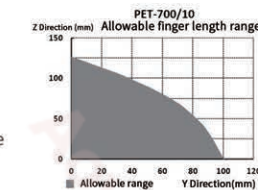
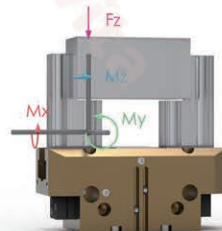
Check the "Finger length" on the product parameter page, where Z=60mm is within the allowable range.

5. Check the "product parameter page" of gripping force and finger length curving.

L=60mm, F=590N > 588N, Gripping force could meet the requirement.

6. Verify load: M=F * L

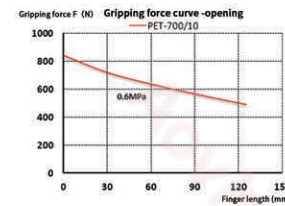
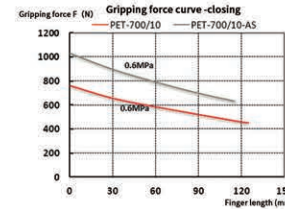
$$\begin{aligned} M_x &= M_x + M_{x \text{ Finger}} < M_{x \text{ max}} = 75 \text{ Nm} \\ M_y &= M_y + M_{y \text{ Finger}} < M_{y \text{ max}} = 105 \text{ Nm} \\ M_z &= M_z + M_{z \text{ Finger}} < M_{z \text{ max}} = 65 \text{ Nm} \\ F_z &= F_z + F_{z \text{ Finger}} < F_{z \text{ max}} = 1800 \text{ N} \end{aligned}$$



Max. static load in vertical direction	
Fz:	1900 N
Allowable torque for load	
Mx:	75 N · m
My:	105 N · m
Mz:	65 N · m

□ Product parameter

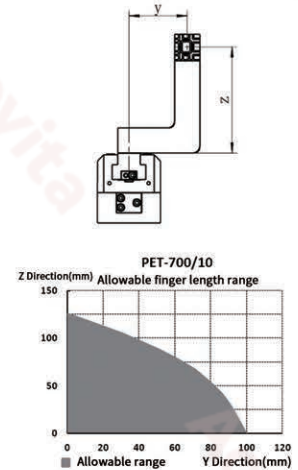
■ Model: PET-700/10



Gripping force and finger length curve

Max. static load in vertical direction	
Fz:	1900 N
Allowable torque for load	
Mx:	75 N · m
My:	105 N · m
Mz:	65 N · m

Gripper loading



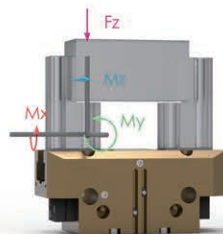
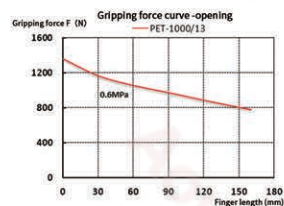
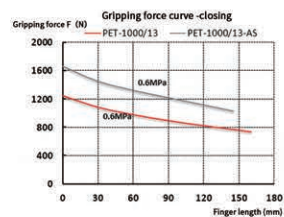
Allowable finger length range

■ Technical data

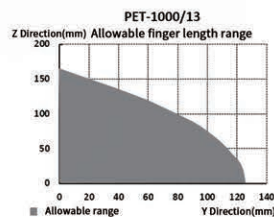
Product model	PET-700/10	PET-700/10-AS
Closing force	700N	940N
Opening force	750N	/
Self-locking clamping force	/	240N
Recommended work piece weight	3.5kg	4.8kg
Repeat accuracy	0.02mm	0.02mm
Stroke per jaw	10mm	10mm
Max. permissible finger length	125mm	115mm
Max. permissible mass per finger	1.1kg	1.1kg
Max. Operating air pressure	0.25-0.8MPa	0.4-0.8MPa
Rated operating pressure	0.6Mpa	0.6Mpa
Closing/opening time	0.08s	0.06s/0.1s
Weight	0.8kg	1kg
Dimensions	120*50*55.3mm	120*50*81mm
Recommended operating temperature	0-80°C	0-80°C

Product parameter

Model: PET-1000/13



Max. static load in vertical direction	
Fz:	2600 N
Allowable torque for load	
Mx:	110 N · m
My:	130 N · m
Mz:	90 N · m



Gripping force and finger length curve

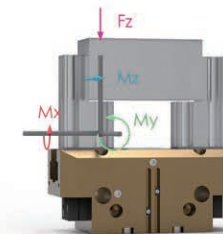
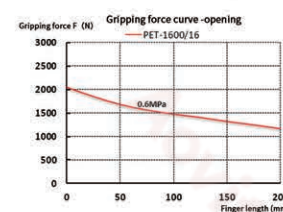
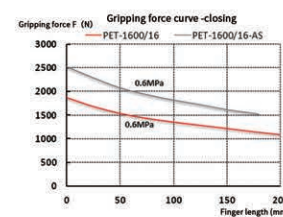
Gripper loading

Allowable finger length range

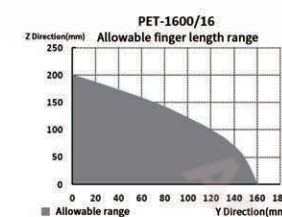
Technical data

Product model	PET-1000/13	PET-1000/13-AS
Closing force	1080N	1470N
Opening force	1170N	/
Self-locking clamping force	/	390N
Recommended work piece weight	5.5kg	7.5kg
Repeat accuracy	0.02mm	0.02mm
Stroke per jaw	13mm	13mm
Max.permissible finger length	160mm	145mm
Max.permissible mass per finger	2.1kg	2.1kg
Max.Operating air pressure	0.25-0.8MPa	0.4-0.8MPa
Rated operating pressure	0.6Mpa	0.6Mpa
Closing/opening time	0.1s	0.08/0.12s
Weight	1.5kg	2kg
Dimensions	151*60*63.1mm	151*60*93.1mm
Recommended operating temperature	0-80°C	0-80°C

Model: PET-1600/16



Max. static load in vertical direction	
Fz:	3900 N
Allowable torque for load	
Mx:	160 N · m
My:	170 N · m
Mz:	115 N · m



Gripping force and finger length curve

Gripper loading

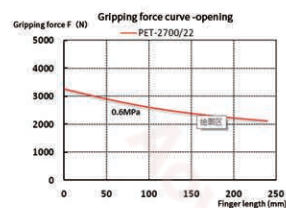
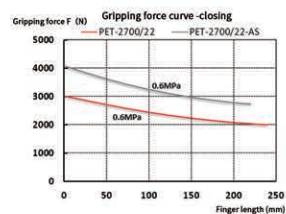
Allowable finger length range

Technical data

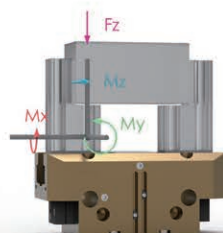
Product model	PET-1600/16	PET-1600/16-AS
Closing force	1640N	2210N
Opening force	1170N	/
Self-locking clamping force	/	570N
Recommended work piece weight	8.4kg	11.3kg
Repeat accuracy	0.02mm	0.02mm
Stroke per jaw	16mm	16mm
Max.permissible finger length	200mm	190mm
Max.permissible mass per finger	3.5kg	3.5kg
Max.Operating air pressure	0.25-0.8MPa	0.4-0.8MPa
Rated operating pressure	0.6Mpa	0.6Mpa
Closing/opening time	0.15s	0.12/0.25s
Weight	3kg	4kg
Dimensions	192*72*77.1mm	192*72*117.1mm
Recommended operating temperature	0-80°C	0-80°C

Product parameter

Model: PET-2700/25

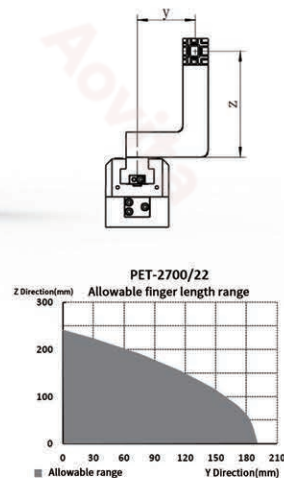


Gripping force and finger length curve



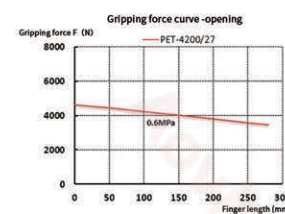
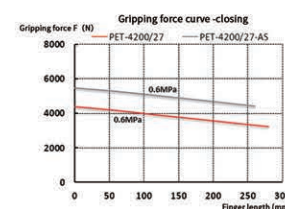
Max. static load in vertical direction	
Fz:	4800 N
Allowable torque for load	
Mx:	165 N · m
My:	180 N · m
Mz:	125 N · m

Gripper loading

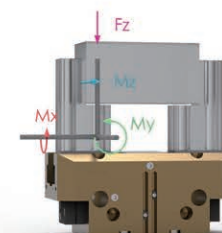


Allowable finger length range

Model: PET-4200/30

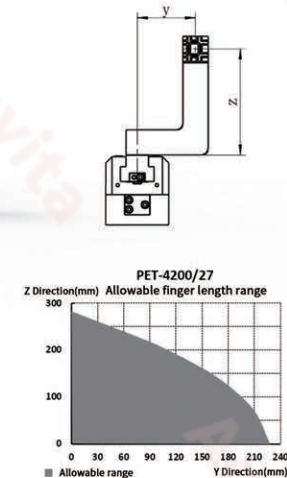


Gripping force and finger length curve



Max. static load in vertical direction	
Fz:	6000 N
Allowable torque for load	
Mx:	245 N · m
My:	235 N · m
Mz:	150 N · m

Gripper loading



Allowable finger length range

Technical data

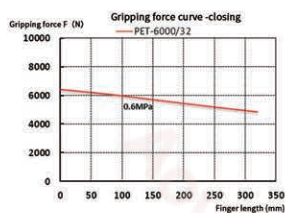
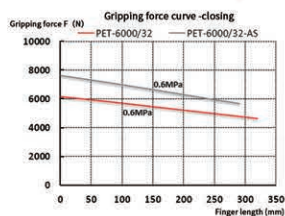
Product model	PET-2700/25	PET-2700/25-AS
Closing force	2700N	3610N
Opening force	2870N	/
Self-locking clamping force	/	910N
Recommended work piece weight	13.7kg	18.4kg
Repeat accuracy	0.02mm	0.02mm
Stroke per jaw	25mm	25mm
Max.permissible finger length	240mm	220mm
Max.permissible mass per finger	6.5kg	6.5kg
Max.Operating air pressure	0.25-0.8MPa	0.4-0.8MPa
Rated operating pressure	0.6Mpa	0.6Mpa
Closing/opening time	0.35s	0.3/0.6s
Weight	6kg	8.1kg
Dimensions	234*100*91mm	234*100*141mm
Recommended operating temperature	0-80°C	0-80°C

Technical data

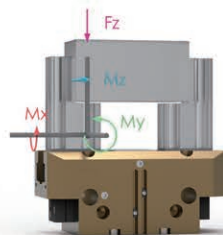
Product model	PET-4200/30	PET-4200/30-AS
Closing force	4200N	5300N
Opening force	4440N	/
Self-locking clamping force	/	1100N
Recommended work piece weight	21.4kg	27kg
Repeat accuracy	0.03mm	0.03mm
Stroke per jaw	30mm	30mm
Max.permissible finger length	280mm	260mm
Max.permissible mass per finger	8.5kg	8.5kg
Max.Operating air pressure	0.25-0.8MPa	0.4-0.8MPa
Rated operating pressure	0.6Mpa	0.6Mpa
Closing/opening time	0.45s	0.35/0.65s
Weight	9.1kg	12.6kg
Dimensions	270*115*107.5mm	234*115*164mm
Recommended operating temperature	0-80°C	0-80°C

□ Product parameter

■ Model: PET-6000/35

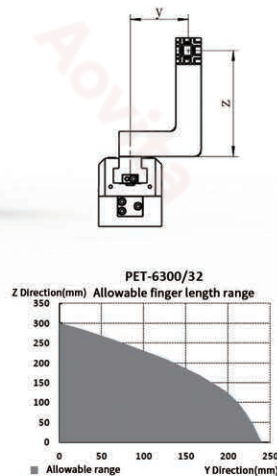


Gripping force and finger length curve



Max. static load in vertical direction	
Fz:	7800 N
Allowable torque for load	
Mx:	380 N · m
My:	380 N · m
Mz:	240 N · m

Gripper loading



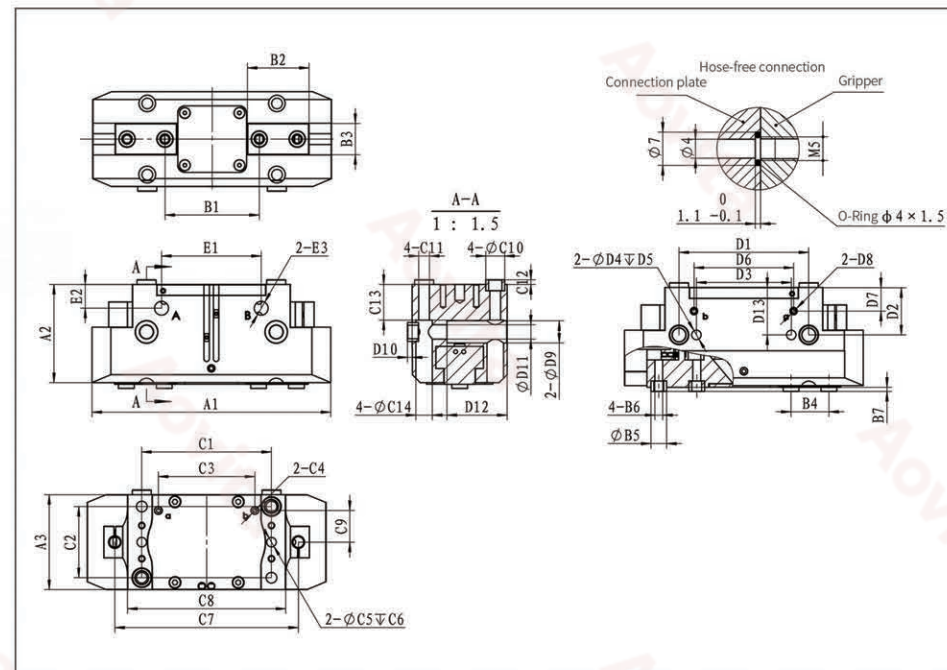
Allowable finger length range

■ Technical data

Product model	PET-6000/35	PET-6000/35-AS
Closing force	6000N	7400N
Opening force	6260N	/
Self-locking clamping force	/	1400N
Recommended work piece weight	30.5kg	37.7kg
Repeat accuracy	0.04mm	0.04mm
Stroke per jaw	35mm	35mm
Max.permissible finger length	320mm	290mm
Max.permissible mass per finger	11.5kg	11.5kg
Max.Operating air pressure	0.25-0.8MPa	0.4-0.8MPa
Rated operating pressure	0.6Mpa	0.6Mpa
Closing/opening time	0.55s	0.4/0.7s
Weight	14.9kg	18.2kg
Dimensions	320*140*122mm	320*140*172mm
Recommended operating temperature	0-80°C	0-80°C

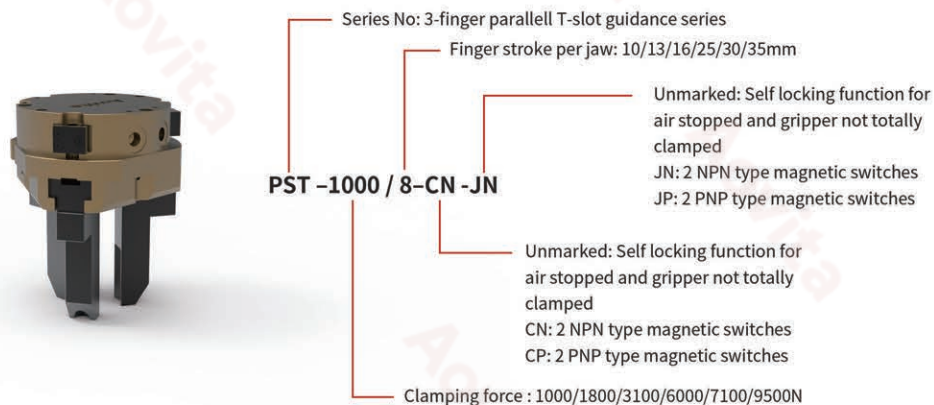
□ Installation dimension drawings

■ Universal grippers installation drawings



Model	Dimension			Mounting dimension							Air supply interface dimension			
	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	E1	E2	E3	
PET-700/10	120	54	50	46.4±0.064	33	17.8	20±0.02	10±0.01	M6	2.6	49	15	G1/8	
PET-1000/13	151	62	60	59.6±0.086	39	19.7	24±0.02	10±0.01	M6	2.6	63	15	G1/8	
PET-1600/16	190	76	72	75.9±0.107	50	26	32±0.02	14±0.01	M10	4	74	18	G1/8	
PET-2700/22	234	91	100	81.9±0.125	62.3	34	40±0.02	16±0.01	M12	4	82	22	G1/8	
PET-4200/27	270	106	115	91.9±0.145	68.7	39	44±0.02	16±0.01	M12	4	96	25.3	G1/8	
PET-6000/32	320	121	140	124.9±0.188	81	45.3	46±0.02	22±0.01	M16	6	106	30	G1/4	
Model	Top mounting dimension													
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14
PET-700/10	66±0.02	38±0.02	47.4	M3			91	81	17	10	M5	2.6	32.7	9
PET-1000/13	82±0.02	45±0.02	61	M5	6	10	116	100	20	12	M8	3	22.5	10.5
PET-1600/16	100±0.02	56±0.02	75	M5	6	12	149	125	24.5	12	M8	3	20.5	11
PET-2700/25	130±0.02	70±0.02	82	M5			176	154	39.5	14	M10	4	20	14
PET-4200/30	160±0.02	80±0.02	96	M5			206	186	48	16	M12	4	25.5	18
PET-6000/35	180±0.02	96±0.02	106	M5	10	10	241	210	55	22	M16	6	31	20
Model	Side mounting dimension													
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	
PET-700/10	66±0.02	25				49	15	M5	11	2.6	6.2	28		
PET-1000/13	82±0.02	30	60±0.02	6	6	63	15	M5	14	3	9	28	30	
PET-1600/16	100±0.02	28	76±0.02	6	5	74	18	M5	14	3	9	41	28	
PET-2700/25	130±0.02	38	100±0.02	8	6	82	22	M5	17	4	10.2	77	34	
PET-4200/30	160±0.02	39				96	25.3	M5	19	4	12.5	65		
PET-6000/35	180±0.02	45	140±0.02	10	6	106	30	M5	25	6	16.2	90	45	

■ Ordering instructions



Aovita® PST Series pneumatic grippers:

PST-1000/8 : Gripping force 1000N, stroke per jaw 8mm

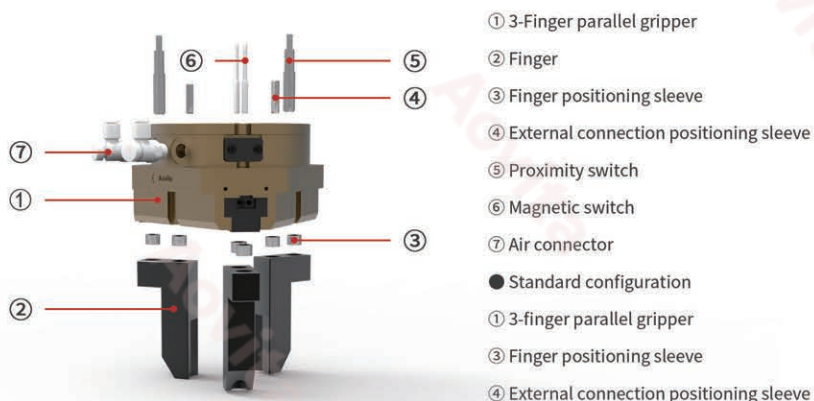
PST-1800/10: Gripping force 1800N, stroke per jaw 10mm

PST-3100/13: Gripping force 3100N, stroke per jaw 13mm

PST-6000/16: Gripping force 6000N, stroke per jaw 16mm

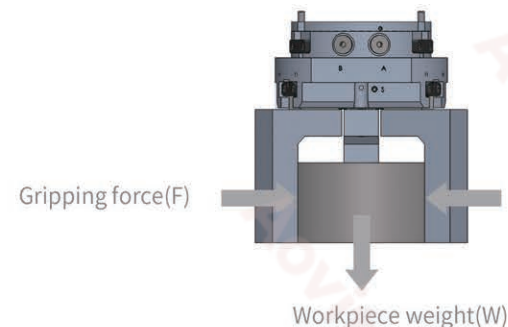
PST-7100/25: Gripping force 7100N, stroke per jaw 25mm

PST-9500/30: Gripping force 9500N, stroke per jaw 30mm



□ Selection instructions

■ Quick selection method for frictional grasping



Condition: The workpiece needs to be clamped with a weight of 3Kg and a robot handling acceleration of 0.5g, and requirement of the stroke per jaw is 8mm.

According to different operating conditions, the weight of the workpiece that the gripper can be selected with the following sheet:

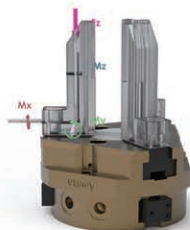
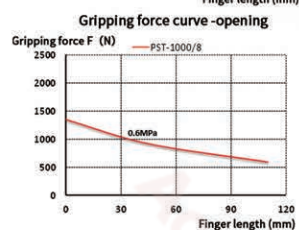
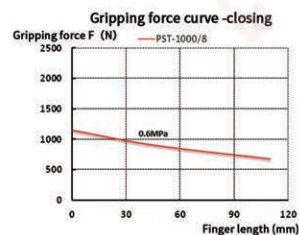
3-Finger parallel gripper		
Model	Clamp forcing	
	Slow handling	Rapid acceleration and deceleration handling
PST-1000/8	7.5kg	5kg
PST-1800/10	13.5kg	9kg
PST-3100/13	23kg	15.5kg
PST-6000/16	45kg	30kg
PST-7100/25	50kg	35kg
PST-9500/30	70kg	50kg

From the sheet, we can see the model PST-1000/8, the clamp forcing is 1000N, stroke per jaw is 10mm that could meet the requirement.

The quick selection method is simple and convenient. However, the weight of the workpiece depends on factors such as the shape of the object, material friction coefficient, and motion acceleration. The finger length and the gravity of the object can also affect the loading, for precise selection which you can check the select instruction on page 7.

Product parameter

Model: PST-1000/8



Max. static load in vertical direction	
Fz:	1500 N
Allowable torque for load	
Mx:	60 N · m
My:	95 N · m
Mz:	55 N · m

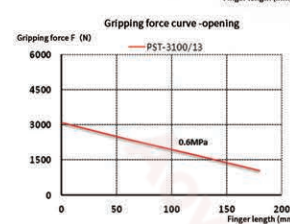
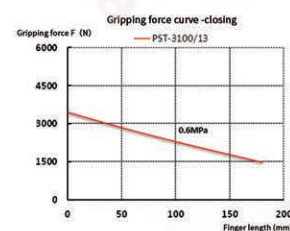
Product model	PET-1000/8
Closing force	1000N
Opening force	1080N
Self-locking clamping force	/
Recommended workpiece weight	5kg
Repeat accuracy	0.02mm
Stroke per jaw	8mm
Max.permissible finger length	105mm
Max.permissible mass per fine	0.6kg
Max.Operating air pressure	0.25-0.8Mpa
Rated operating pressure	0.6Mpa
Closing/opening time	0.1s
Weight	0.8kg
Dimensions	Φ 105*54
Recommended operating temperature	0-80°C
IP protection class	IP40

Gripping force and finger length curve

Gripper loading

Technical data

Model: PST-3100/13



Max. static load in vertical direction	
Fz:	2800 N
Allowable torque for load	
Mx:	120 N · m
My:	145 N · m
Mz:	100 N · m

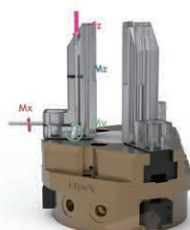
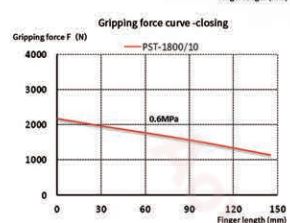
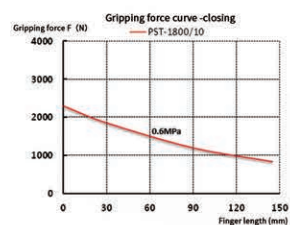
Product model	PET-3100/13
Closing force	3100N
Opening force	3300N
Self-locking clamping force	/
Recommended workpiece weight	15.5kg
Repeat accuracy	0.02mm
Stroke per jaw	13mm
Max.permissible finger length	170mm
Max.permissible mass per fine	2kg
Max.Operating air pressure	0.25-0.8Mpa
Rated operating pressure	0.6Mpa
Closing/opening time	0.2s
Weight	2.5kg
Dimensions	Φ 162*71
Recommended operating temperature	0-80°C
IP protection class	IP40

Gripping force and finger length curve

Gripper loading

Technical data

Model: PST-1800/8



Max. static load in vertical direction	
Fz:	2000 N
Allowable torque for load	
Mx:	80 N · m
My:	115 N · m
Mz:	70 N · m

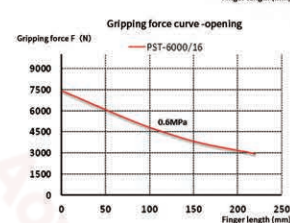
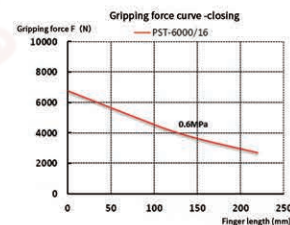
Product model	PET-1800/10
Closing force	1800N
Opening force	1900N
Self-locking clamping force	/
Recommended workpiece weight	9kg
Repeat accuracy	0.02mm
Stroke per jaw	10mm
Max.permissible finger length	140mm
Max.permissible mass per fine	1kg
Max.Operating air pressure	0.25-0.8Mpa
Rated operating pressure	0.6Mpa
Closing/opening time	0.1s
Weight	1.45kg
Dimensions	Φ 130*60
Recommended operating temperature	0-80°C
IP protection class	IP40

Gripping force and finger length curve

Gripper loading

Technical data

Model: PST-6000/16



Max. static load in vertical direction	
Fz:	4300 N
Allowable torque for load	
Mx:	170 N · m
My:	180 N · m
Mz:	130 N · m

Product model	PET-6000/16
Closing force	6000N
Opening force	6350N
Self-locking clamping force	/
Recommended workpiece weight	30kg
Repeat accuracy	0.02mm
Stroke per jaw	16mm
Max.permissible finger length	200mm
Max.permissible mass per fine	3kg
Max.Operating air pressure	0.25-0.8Mpa
Rated operating pressure	0.6Mpa
Closing/opening time	0.6s
Weight	5.5kg
Dimensions	Φ 207*87.5
Recommended operating temperature	0-80°C
IP protection class	IP40

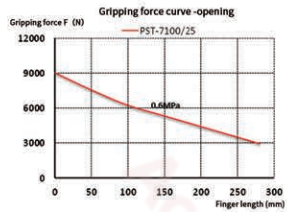
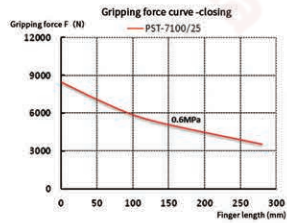
Gripping force and finger length curve

Gripper loading

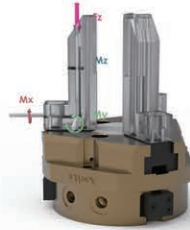
Technical data

Product parameter

Model: PST-7100/25



Gripping force and finger length curve



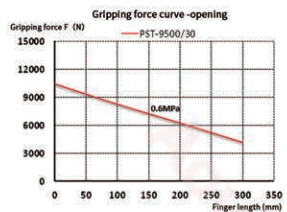
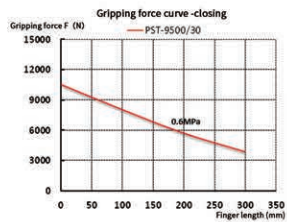
Max. static load in vertical direction	
Fz:	5000 N
Allowable torque for load	
Mx:	180 N · m
My:	200 N · m
Mz:	140 N · m

Gripper loading

Product model	PET-7100/25
Closing force	7100N
Opening force	7500N
Self-locking clamping force	/
Recommended workpiece weight	35kg
Repeat accuracy	0.02mm
Stroke per jaw	25mm
Max. permissible finger length	260mm
Max. permissible mass per fine	6kg
Max. Operating air pressure	0.25-0.8Mpa
Rated operating pressure	0.6Mpa
Closing/opening time	1.2s
Weight	11kg
Dimensions	Φ 254*105.4
Recommended operating temperature	0-80°C
IP protection class	IP40

Technical data

Model: PST-9500/30



Gripping force and finger length curve



Max. static load in vertical direction	
Fz:	6200 N
Allowable torque for load	
Mx:	265 N · m
My:	250 N · m
Mz:	160 N · m

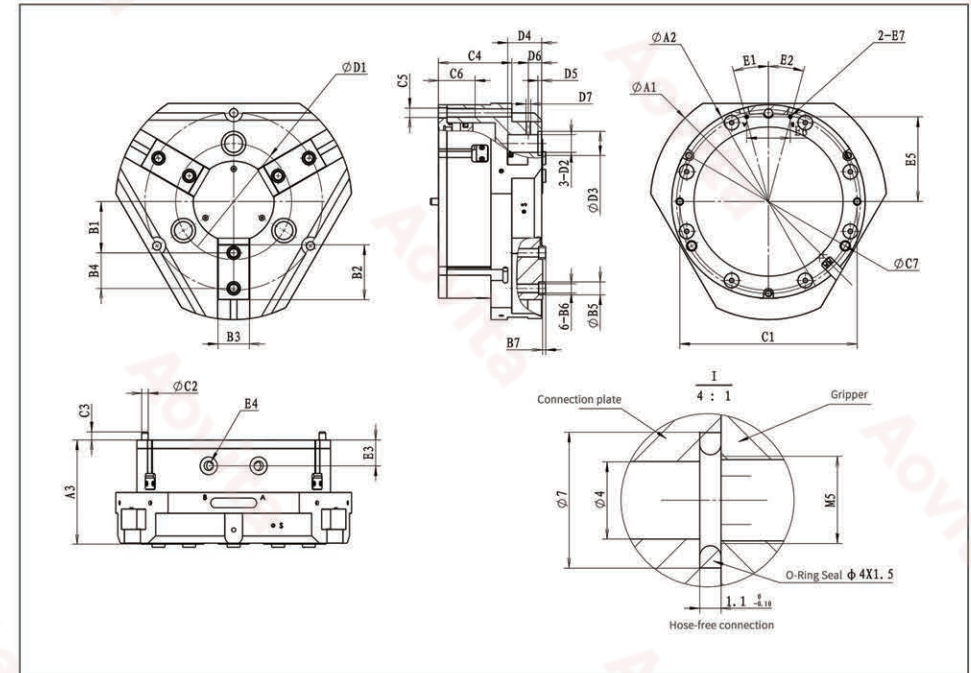
Gripper loading

Product model	PET-9500/30
Closing force	9500N
Opening force	10400N
Self-locking clamping force	/
Recommended workpiece weight	50kg
Repeat accuracy	0.02mm
Stroke per jaw	30mm
Max. permissible finger length	300mm
Max. permissible mass per fine	8kg
Max. Operating air pressure	0.25-0.8Mpa
Rated operating pressure	0.6Mpa
Closing/opening time	1.4s
Weight	20kg
Dimensions	Φ 293*129.1
Recommended operating temperature	0-80°C
IP protection class	IP40

Technical data

Installation dimension drawings

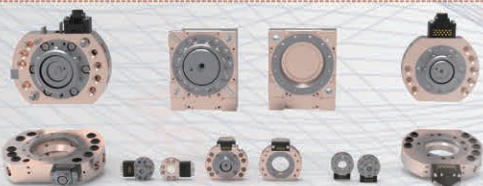
Universal grippers installation drawings



Model	Dimension			Mounting dimension						
	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7
PST-1000/8	105	80	54	22±0.30	26	14.4	16±0.02	8±0.01	M5	2.5
PST-1800/10	130	105	60	27.5±0.37.5	33	17.8	20±0.02	10±0.01	M6	2.6
PST-3100/13	162	125	71	35±0.48	39	19.7	24±0.02	10±0.01	M6	2.6
PST-6000/16	207	160	87.5	44±0.60	50	26	32±0.02	14±0.01	M10	4
PST-7100/25	254	200	105.4	49±0.74	62.3	34	40±0.02	16±0.01	M12	4
PST-9500/30	293	240	129.1	56±0.86	68.7	39	44±0.02	16±0.01	M12	4
Model	Mounting dimension									
	C1	C2	C3	C4	C5	C6	C7			
PST-1000/8	70±0.02	5±0.01	8	37	M8	20	70			
PST-1800/10	90±0.02	5±0.01	8	42.5	M8	20	90			
PST-3100/13	112±0.02	6±0.01	7	52	M10	20	112			
PST-6000/16	146±0.02	6±0.01	7	61.5	M10	20	146			
PST-7100/25	184±0.02	8±0.01	10	74.5	M12	24	184			
PST-9500/30	220±0.02	8±0.01	10	91	M12	24	220			
Model	Mounting dimension									
	D1	D2	D3	D4	D5	D6	D7			
PST-1000/8	44±0.02	9	14	20		10	M3			
PST-1800/10	58±0.02	12	14	25	3.5	15	M4			
PST-3100/13	72±0.02	16		30		16	M4			
PST-6000/16	100±0.02	14	21	32	3.5	15	M5			
PST-7100/25	120±0.02	16	22	35	3.5	15	M5			
PST-9500/30	144±0.02	22	30	42	4.5	16.5	M6			
Model	High-pressure tubing									
	E1	E2	E3	E4	E5	E6	E7			
PST-1000/8	1/8"	1/8"	1/4	M5	32	18	M5			
PST-1800/10	1/8"	1/8"	1/4	G1/8	42	24	M5			
PST-3100/13	1/8"	1/8"	1/4	G1/8	53	20	M5			
PST-6000/16	1/8"	1/8"	1/4	G1/8	67.5	38	M5			
PST-7100/25	1/8"	1/8"	1/4	G1/8	87.5	46	M5			
PST-9500/30	1/8"	1/8"	1/4	G1/8	105	54	M5			



Robot tool changer standard

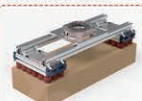


Aovita robot changer is used to change multiple sets of grippers by one robot. The robot can be used for multiple purposes.

Vacuum products



Vacuum suction cup
Used for gripping and handling of metal sheets, glass and plastic parts, etc



Octopus sucker
Used for gripping and handling of products such as packing boxes, bags, etc



Sponge sucker
Used for gripping and handling of products such as wooden boards, packing boxes, etc

Gripper

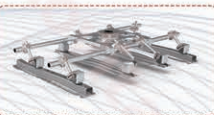


Pneumatic gripper
Used for gripping and handling of metal sheet workpieces



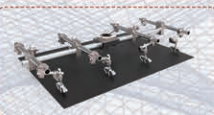
Pneumatic gripper
Used in automatic loading and unloading systems for machining
Used for gripping and handling of shafts/disks/shells and other workpieces

Magnetic suction



Magnetic chuck
Used for gripping and handling of metal sheet workpieces

Needle gripper



Needle gripper
Used for gripping and handling of air permeable products such as carpets and felts, etc

Intelligent gripper connector

Aovita connector can be used to quickly assemble various body frames for EOAT.

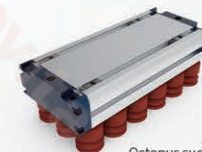


Vacuum product

Aovita vacuum products can quickly combine the necessary grippers for metal stamping plate handling, logistics packaging handling, woodworking handling, injection molding handling, etc.



Pneumatic element of vacuum suction cup



Octopus sucker



Sponge sucker

Clamp

Aovita pneumatic gripper can be used to quickly assemble the grippers required for the handling of machining, loading & unloading, high-speed stamping and other work.



Parallel gripper



Clamp



Magnetic suction

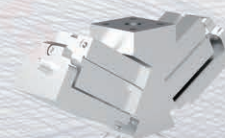
Aovita magnetic chuck standard can be used to quickly assemble the grippers required for metal sheet handling and other work.



Magnetic chuck

Needle gripper

Aovita needle suction cup can be used to quickly combine the grippers required for carpet and felt handling.



Needle suction cup