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ROBOTIC GRIPPING STANDARD PRODUCTS

┕冲压端拾器选型样册

PRESS AUTOMATION TOOLING CATALOGUE FOR MODEIS SELECTION

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Aovita

冲压端拾器 选型样册

PRESS AUTOMATION TOOLING CATALOGUE FOR MODELS SELECTION



济南奥图科技有限责任公司 Jinan Aotto Technologies Co., Ltd. Since **2000**

With the rapid development of manufacturing industries such as automobiles and home appliances, automatic stamping lines become the main equipment for stamping production. Whether using robotic manipulator or general-purpose robots, the transmission of stamping parts cannot be separated from picking up. After nearly 20 years of development and precipitation, the Aovita EOAT has formed a series of products, which can not only provide solutions from high-speed lines to general applicatons, but also provide solutions to multiple foreign brands of stamping automation line. Aovita EOAT are divided into D series products suitable for high-speed line and E series products suitable for medium and low-speed lines based on the acceleration of the manipulator and the robots.





De-stack EOAT

Applied to the FOL of the stamping line, using the principle of vacuum grabbing, the sheet metal is picked up one by one from the palletizing of the loading trolley and sent to the next process, Dual material detection sensors and anti-pressure sensors are usually integrated to the de-stack.



Loading/Transfer EOAT

Applied to the transmission between medium and low speed lines, irregular or porous workpieces can be grabbed by using magnetic suction cups.



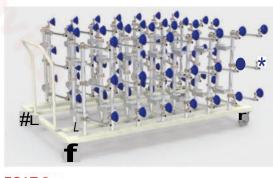
Loading/Transfer EOAT

Applied to the transmission between presses for high speed stamping lines (Stroke > 12spm)



Idle station

When there is no mold for the stamping processing, it can use the Idel to support the parts.



EOAT Cart

the Idel to support the parts. The cart for stocking and transferring the EOAT

♦ Composition of the De-stack EOAT



☐ Advantages of D series

Accept carbon fiber material, the weight is lighter and has strong fracture resistance, suitable for high-speed lines such as double/single seven axis linear robot for and big and heavy workpieces of the stamping lines.

- Optimizing the production line stroke and improving the economic efficiency of automation lines.
- To reduce the labor intensity of changing the EOAT
- To reduce the energy consumption and extending the life of robots

☐ Characters of E series

Made of aluminum alloy material, suitable for medium and low speed production lines.

Low disposable investment cost

Accept high-strength aviation aluminum materials to ensure the strength requirements

☐ Normal model of De-stack EOAT





AD-T20 De-stack EOAT

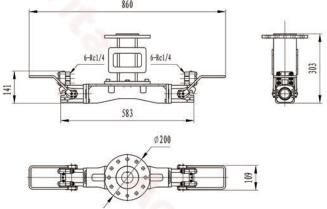
AD-T40 De-stack EOAT

♦ Central boom of DE-stack EOAT

Item	Model	Workpiece weight (kg)	Air holes	Eletrical Path	Weight(kg)	Material
-07	AD-T20	≤20	L6+R6		11	Steel+high
Central boom of	AD-T40	≪40	L10+R10	Left-5 pins+	17	carbon fiber
De-stack EOAT	AE-T20	€20	L6+R6	Right 5 pins	16	Steel+high Alum.
	AE-T40	≪40	L10+R10		31	- Steer riight Aldin.

☐AT-D20 Central boom of De-stack EOA

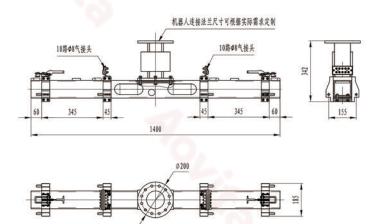




Product size

☐ AT-T40 Central boom of De-stack EOAT

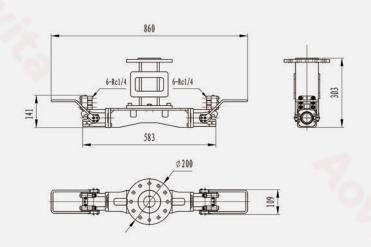




Product size

☐ AE-T20 Central boom of De-stack EOAT

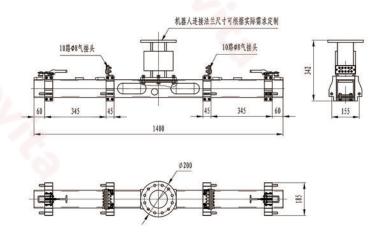




Product size

☐ AE-T40 Central Boom of De-stack EOAT





Product size

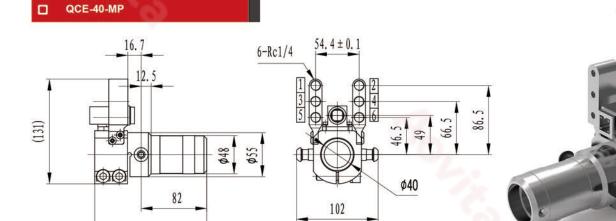
Structures of De-Stack EOAT



According to the main structure, workpieces size and weight to confirm the branches model and the vacuum suctions.

Common components of De-stack EOAT crosses

140



Item	Model	Air holes	Electrical path	Max static load(N.M)	Weight(kg)	Material
1416177	QCA-40-MP-6-0		0		0.70	Alloy steel main body
快换插头	QCA-40-MP-6-5	6	5	305	0.75	Steel pins

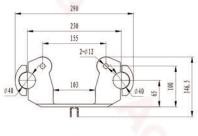
☐ QCE-40-MP



Male quick changer QCE-40-MP-A(with holder)

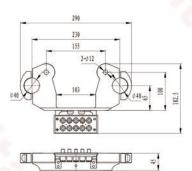


Male quick changer QCE-40-MP-A(with air ports)





Product size



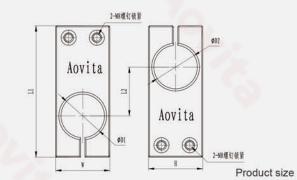
1	0.075	- 50		
Pro	du	ct	SIZ	26

QCE*40-MP							
No	名称	Model	Air holes	Main function	Weight(kg)	Material	
1	Male quick changer (with holder)	QCE-40-MP-A	0	Locked	1.15	Alloy steel main body,	
2	Male quick changer (with air ports)	QCE-40-MP-B	10(ф8)	Air connection	1.20	Self-lubricating copper sleeve	

Remark: Adapt to AD/E-T40 destack EOAT boom: 2. Male quick changer QCE-40-MP-B(with air ports) could connect with the air tube

☐ CP-A





Application

				CP	-A				
No	Model	D1(mm)	D2 (mm)	L1(mm)	L2(mm)	W(mm)	H(mm)	Weight(kg)	Material
1	CP-A-40-40	40	40	121	45	50	50	0.41	High
2	CP-A-25-25	25	25	91	31	35	35	0.21	Strength alloy

☐ AB-B Alum. Tube



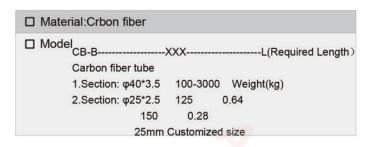
☐ Material: High Strength Alloy

☐ Model_{AB-B----} --L(Required Length) Alum. Tube 1.Section: φ40*4 100-3000 Weight(kg)

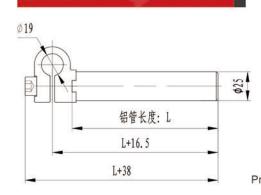
2.Section: φ25*8.25 125 150 0.28 25mm Customized size

☐ CB-B carbon fiber tube





□ D-EX extended tube(single joint)







)-EX extened tube(sing	gle joint)	
No	Model	L(mm)	Weight(kg)	Material
1	D-EX-19-25-100	100	0.155	
2	D-EX-19-25-150	150	0.17	
3	D-EX-19-25-200	200	0.185	
4	D-EX-19-25-250	250	0.20	Carbon fiber +Alum. Join
5	D-EX-19-25-300	300	0.215	
6	D-EX-19-25-350	350	0.23	7
7	D-EX-19-25-400	400	0.245	U.



□E-EX Extended Tube(Single Head)



	E-EA exten	ged tube(s	Single Head)	
No	Model	L(mm)	Weight (kg)	Material
1	E-EX-19-25-100	100	0.18	
2	E-EX-19-25-150	150	0.24	High
3	E-EX-19-25-200	200	0.30	strength
4	E-EX-19-25-250	250	0.36	alloy
5	E-EX-19-25-300	300	0.42	
6	E-EX-19-25-350	350	0.48	
7	E-EX-19-25-400	400	0.54	

☐ CP-G

E-EX image



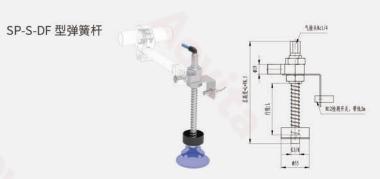
Product size

		CP-G	
No	Model	Weight(kg)	Material
1	CP-G-40-25	0.30	High strength alloy

□ SP-S 型弹簧杆

CP-G Image



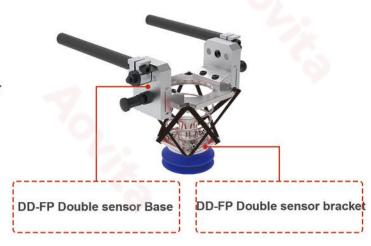


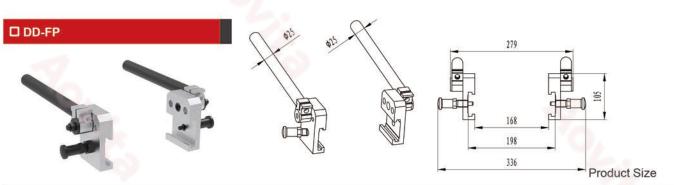
□ Model	SP	S	Strok	eDF	SP-S/ Weigh	
	Spring rod	Spring	60 100 150 200 250	None with anti-pressure detection function (M12 screw, PNP,normally open, detection distance 8mm)	0.39 0.424 0.456 0.499 0.54	0.582 0.616 0.648 0.701 0.742

Double blanks detection

Double sensor bracket:

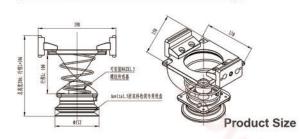
Used for install double detection sensor, and the sensor could used for detect double blanks





DD-FP					
No	Item	Model	Connected Part	Weight(kg)	Material
1	Double sensor base	DD-FP	E-EX	0.80	High Strength Alloy

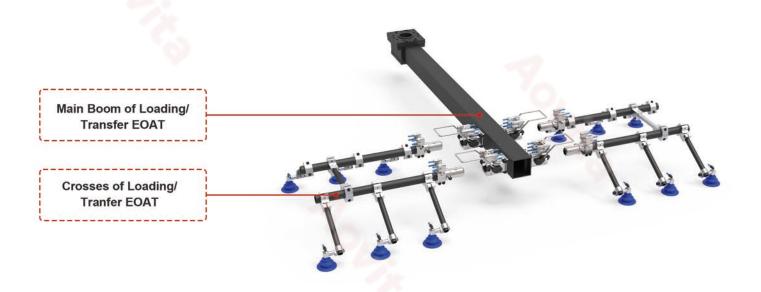
□ DD-MP





			DD-MP			
No	Item	Model	Stroke L(mm)	Install size	Weight(kg)	Material
1		DD-MP-50	50		1.20	
2	Double material sensor bracket	DD-MP-100	100	M42X1.5	1.40	High Strength Alloy
3	School blacket	DD-MP-150	150		1.50	

♦ Composition of the Loading/Transfer EOAT









AD-FT40-M EOAT

AD-FT-40-G EOAT

AD-FT-40-L

☐ Advantages of D series

Accept carbon fiber material, the weight is lighter and has strong fracture resistance

- Optimizing the production line stroke and improving the economic efficiency of automation lines.
- To reduce the labor intensity of changing the EOAT
- To reduce the energy consumption and extending the life of robots

☐ Characters of E series

Made of aluminum alloy material

- Low disposable investment cost
- · Accept high-strength aviation aluminum materials to ensure the strength requirements

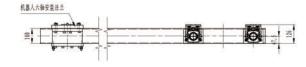
♦ Central boom of Loading and Transfer EOAT

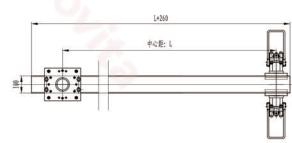
☐ Main structures

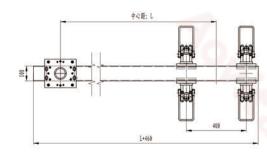












Central boom of AD-F-T-20-M

Central boom of AD-FT-40-M

Item	Model	Central distance L(mm)	Workpiece weight (kg)	MQC No.	Air holes	Weight(kg)	Materia
	AD-FT40-M1300	1300	0.54			20.2	Cabon
Central boom of Liading/	AD-FT40-M1400	1400	≤40	4	L8+R8	20.5	fiber
	AD-FT40-M1500	1500				20.8	
	AE-FT20-M1300	1300	≤20	2	L4+R4	21.8	Alloy
	AE-FT40-M1300	1300	≤40	4	L8+R8	25.8	
ransfer EOAT	AE-FT20-M1400	1400	≤20	2	L4+R4	22.4	
	AE-FT40-M1400	1400	≤40	4	L8+R8	26.3	
	AE-FT20-M1500	1500	≤20	2	L4+R4	23.0	
	AE-FT40-M1500	1500	≤40	4	L8+R8	27.0	





)-FT-40-G				
Item	Model	Central distance L(mm)	Workpiece weight (kg)	Boom Qty	Crosses Qty	Air Holes	1 Boom+1 Crosses Weight (kg)	Material
of Loading	AD-FT40-G1500	27000000000	<10	1	2	L4+R4	33.0	High strength carbon fiber
ransfer EOA	T AD-FT40-G1600	1600	≤40	1	2	LATINA	33.5	



			AD-FT40-L				
Item	Model	Central distance L(mm)	Workpieces weight (kg)	Boom Qty	Crosses Qty	Air Path	Material
Central boom of oading/Transfer EOAT	AD-FT40-L1400	1400	≪40	1	2	L4+R4	High strength cabon fiber

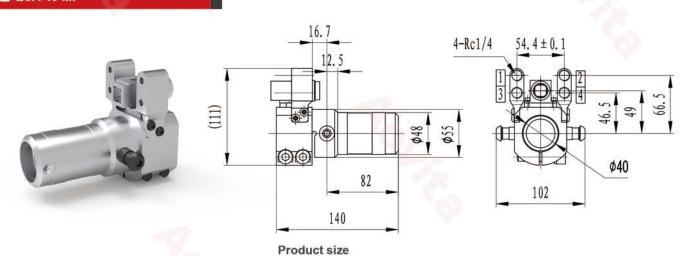
♦ Models and Structures of Loading/Transfer Crosses



According to the main structure, workpieces size and weight to confirm the branches model and the vacuum suctions.

Common components of Loading/Transfer crosses

□ QCA-40-MP

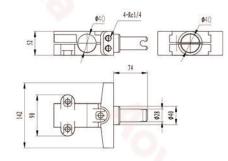


			1			
Item	Model	Air holes	Electrial path	Max static load(N.M)	Weight(kg)	Material
Manual	QCA-40-MP-4-0	9	0	205	0.65	High strength alloy body, Steel pins
quick changer	QCA-40-MP-4-5	4	5	305	0.70	







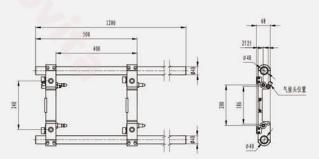


Product Size

			QCS-E	0-40-MP-II		
Item	Model	Air holes	φD(mm)	Max static load(N.M)	Weight(kg)	Material
Male guick changer	QCD-40-MP-4-0-11	4	40	305	1.10	High strength alloy body, steel pir





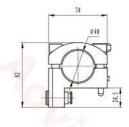


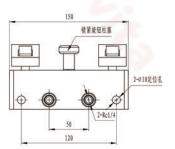
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Produc	t Siz

			400	-40-MP		7
Item	Model	Air holes	Air tube size	Max static load(N.M)	Weight(kg)	Material
Male guick changer	QCS-40-MP	1	Ф10	305	0.90	High strength alloy body, steel pir

□ QCZ-40-MP







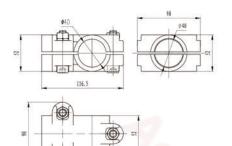
Product size

			QCZ-40-M	P		
Item	Model	Air holes	Electrical path	Max static load(N.M)	Weight(kg)	Material
Male uick changer	QCZ-40-MP-2-0	2	0	305	0.65	High strength alloy

□ CP-E



Model

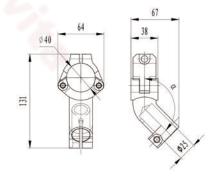


, 🕒	
CP-E	
Weight (kg)	Material
0.60	High strenght alloy

□ D-CP-B

No

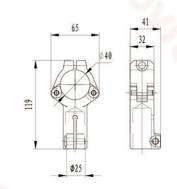




		D-CP-E	1	
No	Model	α	Weight(kg)	Material
1	D-CP-B-40-25-R	135	0.27	High strength alloy
2	D-CP-B-40-25-L	225	0.27	, ngir anangin ana,

☐ D-CP*B*180





		D-CP-B-	180	
No	Model	α	Weight(kg)	Material
1	D-CP-B-40-25-180	180	0.20	High strength alloy

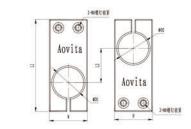




Aovita 专业情工 八〇19班

☐ CP-A

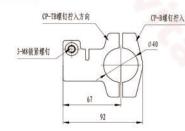


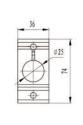


				CP-	A	,,			
No	Model	D1(mm)	D2(mm)	L1(mm)	L2(mm)	W(mm)	H(mm)	Weight(kg)	Material
1	CP-A-25-25	25	25	91	31	35	35	0.21	High strength alloy

□ СР-В





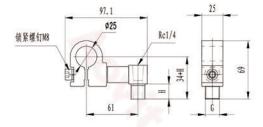




CP-B								
No	Model	Weight)kg)	Material					
1	CP-B-40-25	0.20	Ligh strongth allow					
2	CP-TB-40-25	0.30	High strength alloy					

□ CC-A 型吸盘接头组件



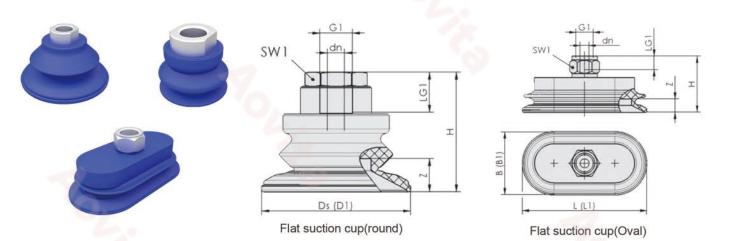


		CC-A Suction Attachment							
No	Model	G	H(mm)	Weigjt(lg)	Material				
1	CC-A-G1/4	G1/4	13	0.15	High strength alloy				
2	CC-A-G3/8	G3/8	16	0.15	r light strength dile				

☐ Suction cups

The suction cup is made of special materials, which has excellent oil resistance, wear resistance and aging resistance Choosing a proper suction cup can save the use cost, obtain a stable production state, and improve the production efficiency. The special groove structure at the bottom of the suction cup can prevent the oily thin plate from sliding during transportation, ensuring the accuracy of workpiece handling.

- Application:Used for transfer metal sheet, especially for stamping automation line transferring
- · Advantages: No denting and deform when transfer the metal sheet.



Flat suction cup (round)												
No	Model	Suction(N)	Lateral force(N)	D1	dn	Ds	G1	Н	LG1	SW1	Z(Stroke)	Weight(kg
1	VA-100-G3/8-IG	190	220	110	101	6	G3/8	56.6	15	22	25.8	88
2	VA-80-G3/8-IG	135	145	89	81	6	G3/8	49.9	15	22	22.1	63
3	VA-60-G3/8-IG	82	82	67	61	6	G3/8	41.3	15	22	14.5	40
4	VA-50-G3/8-IG	53	55	56	50	6	G3/8	36.9	15	22	11.5	32
5	VA-40-G1/4-IG	38	36	45	40	4	G1/4	28.8	12	17	10	14
6	VA-30-G1/4-IG	22	30	34	31	4	G1/4	28	12	17	9	14
7	VA-22-G1/4-IG	16	18	24	21	3.5	G1/4	25	12	16	5.8	9

	Flat Suction Cup(Oval)													
No	Model	Suction (N)	7,000,000	В	B1	dn	G1	Н	L	LG1	L1	SW1	Z(Stroke)	Weight(kg)
1	VB-110*55-G3/8-IG	110	(N) 299	53	59	8	G3/8	43.5	99	9	114	22	12	109
2	VB-80*40-G1/4-IG	65	153	40	43	6	G1/4	37.2	73	8	83	17	9	75
3	VB-60*30-G1/4-IG	38	73	31	33	6	G1/4	34.5	56	8	63	17	7	57