

By Industry



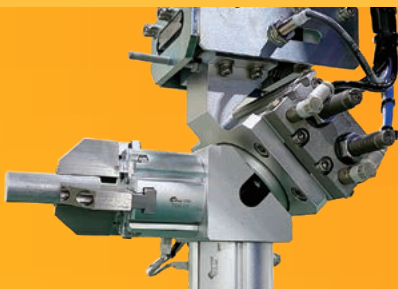
Logistics • Palletizing 8-2

- ▶ Air Ejectors / Pad 8-2
- ▶ Vacuum Gripper..... 8-3



Sheet Metal • Stamping • Metal Fabrication ... 8-4

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Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (QM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Base Cylinder / Pad / Base Manifold

By Industry

Logistics • Palletizing
Sheet Metal • Stamping • Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



Logistics • Palletizing [Air Ejectors / Pad]

Perfect for transportation of heavy weight and cardboard.

NEW ▶ Air Ejectors



Air Ejectors(shaft φ 12)

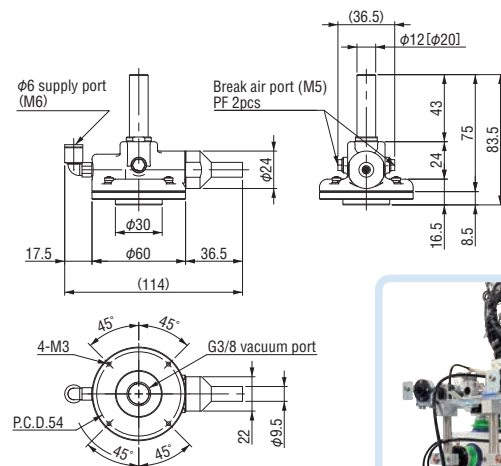
Order code No.	042116
TYPE	ESVP10-A

● Weight : 146g

Air Ejectors(shaft φ 20)

Order code No.	042129
TYPE	ESVP10-A-20

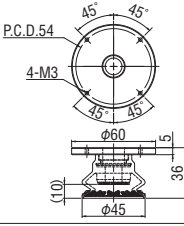
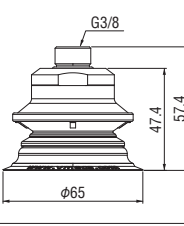
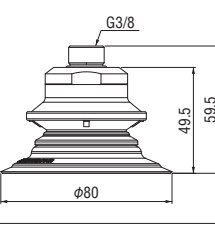
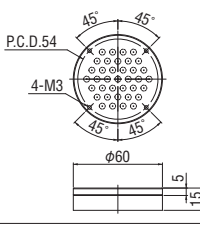
● Weight : 169g



■ Specification

TYPE	Max vacuum (-kPa)	Max suction discharge (NL/min)	Air supply pressure (MPa)	Air consumption (L/min)	Noise level (dBA)
ESVP10-A	-79.5	85	0.5	57	65 ~ 70

NEW ▶ Carrier Cup (for Ejector only)

Applicable cup size	φ 45mm	φ 65mm	φ 80mm	φ 60mm
Carrier cup	 for Holder plate			 for Holder plate
Drawing				
Order code No.	042117	010749	010750	042118
TYPE	ESVP-A-PA	B1.5/60-MU65-N6-G-F2-38M	B1.5/60-MU80-N6-G-F2-38M	ESVP-A-SA
Weight	56.4g	82g	88g	40.6g

NEW ▶ Maintenance Parts



Filter

Order code No.	042119
TYPE	ESVP-FILT

● Weight : 1.5g



Nozzle unit

Order code No.	042133
TYPE	ESVP10-NOZL-UT

● Weight : 20g



Seal ring

Order code No.	042132
TYPE	ESVP10-SEAL

● Weight : 0.1g



Joint (Elbow)

Order code No.	102051
TYPE	K02L06-M6A

● Weight : 4.3g



Bracket joint φ 12

Order code No.	042130
TYPE	ESVP10-BKTJT12

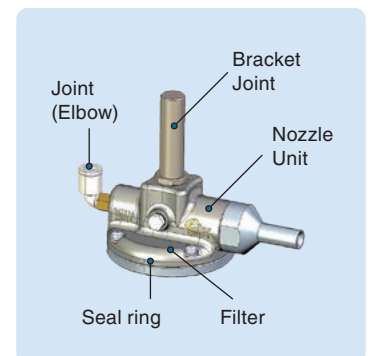
● Weight : 16g



Bracket joint φ 20

Order code No.	042131
TYPE	ESVP10-BKTJT20

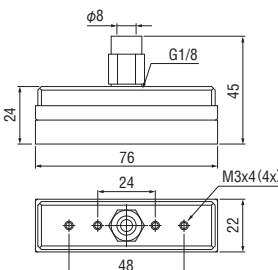
● Weight : 38g

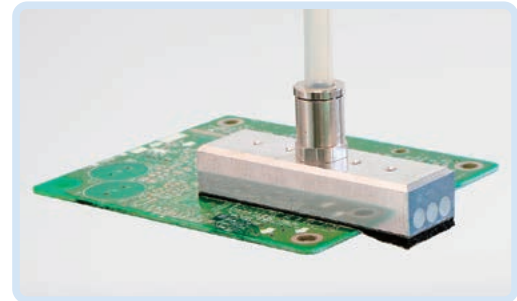




Logistics • Palletizing [Vacuum Gripper]

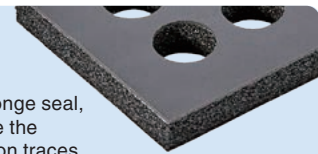
▶ A small vacuum gripper. Suitable for suction and transport of small workpieces.

Vacuum Gripper	 ejector not attached	
Drawing	 * Connect plastic ejector SSBP series (3-49) to $\phi 8$ (ejector not attached).	
Product name	Vacuum gripper 76×22・10mm	Sponge seal 76×22 w/o valve (for exchange)
Order code No.	183977	183978
TYPE	SFM-76/22-SW-10-B	SFMSEAL76/22SW10BW/OV
Weight	50.0g	1.5g



About suction surface

It's coated with sponge seal, which could reduce the abrasion and suction traces.
* Sponge seal is replaceable.



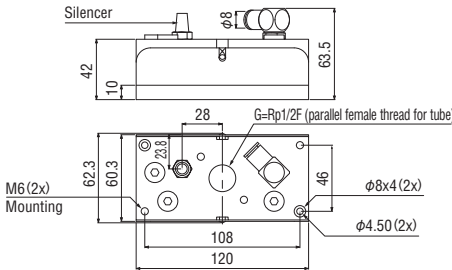
Specification

TYPE	Vacuum Gripper	Valve	Holding power ^{*1} (N)	Required suction quantity ^{*2} (L/min)	Number of cells	Weight (g)
SFM-76/22-SW-10-B	External type	Throttle valve	40	40	26	60

* 1 -60 kPa. If the entire gripper is covered by hard work piece.

* 2 The amount of suction when the vacuum gripper is connected to -60 kPa.

▶ It can transfer the work piece of different shapes with one gripper (wood, resin, cardboard, etc.).

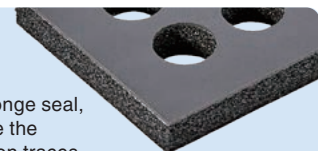
Vacuum Gripper	 with ejector	
Drawing		
Product name	Vacuum gripper 120×60・10mm	Sponge seal 120×60 w/o valve (for exchange)
Order code No.	183979	183980
TYPE	SFX-120/60-SW-1.5-10-B	SFXFMSEAL120/60SW10BW/OV
Weight	500.0g	6.5g

* Sales ends when it's out of stock.



About suction surface

It's coated with sponge seal, which could reduce the abrasion and suction traces.
* Sponge seal is replaceable.



Specification

TYPE	Load tolerance ^{*3} (N)	Holding power ^{*4} (N)	Max suction discharge ^{*5} (L/min)	Max vacuum (%)	Air consumption (L/min)	Number of cells	Noise level (dB (A))	Supply pressure (MPa)	Allowable temperature (°C)	Weight (g)
SFX-120/60-SW-1.5-10-B	92	98	69	80	117	10	65	0.3 ~ 0.5	+5 ~ +50	500

* 3 When transporting horizontally.

* 4 The max holding power happen while the system air pressure is - 30 kPa When sucking on workpieces without ventilation. The safety rate is not included.

* 5 Supply air pressure 0.5 MPa.

* The max vacuum level, air consumption and noise level vary according to the external vacuum gripper.

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Quick Chuck Change Manual (OM Type)

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Automated Hand Exchange System

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Logistics - Palletizing
Sheet Metal - Stamping - Metal Fabrication

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Information

Various Products Information



- ▶ Powerful holding force with the magnet.
- ▶ Lightweight with compact design
- ▶ Jungle gym with ϕ 20 series
- ▶ Using with magnet to transfer steel parts.

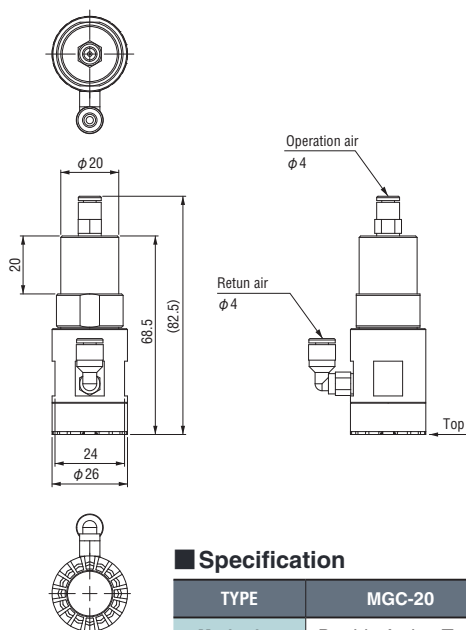


Order code No.	123218
TYPE	MGC-20

- 

Order code No.	123571
TYPE	MGC-C

- Weight: 3g
- Material: urethane rubber



TYPE	MGC-20
Mechanism	Double Action Type
Air pressure	0.39 ~ 0.49Mpa
Holding force	25N
Residual magnet*	0.01N Max.

* Indicates the residual magnet at the top in return operation.



The diagram shows two cross-sectional views of a vacuum furnace. In the 'In Operation' state, a grey block (sample) is in the center, and a black block (neodymium magnet) is at the bottom. Arrows indicate 'Operation air' entering from the top and 'Return air' being drawn from the bottom. A label points to the 'Neodymium magnet'. In the 'In Return' state, the grey block is moved to the top, and the black magnet is moved to the bottom. Arrows indicate 'Return air' being drawn from the bottom through the magnet.

- Strong holding of uneven / perforated steel plate with permanent magnet!
Product with sensor to detect magnet position is also available.

- Material of non-slip ring : Polyurethane PU
- Pipe joint is sold separately. → See 6-5,6,7



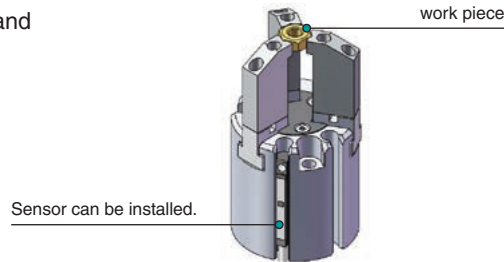
Sheet Metal • Stamping • Metal Fabrication [Three Claws Chuck]

Perfect for gripping the work piece of cylindrical shape.

- It balances well at cylinder center, and grips the work piece accurately.

Accuracy of movement

±0.01mm



TCC-16 / TCC-25 / TCC-32



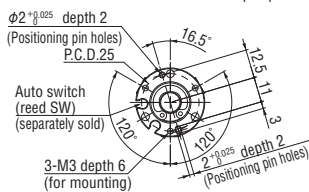
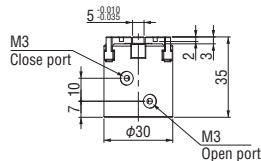
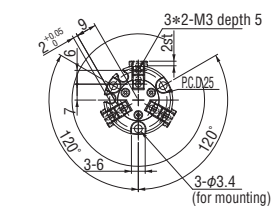
Use in gantry chuck

NEW

Three Claws Chuck

Order code No.	197258
TYPE	TCC-16

- Stroke: 4mm
- Weight: 60g
- Structure: Double Action Type
- Pipe joint is sold separately. → See (6-5,6,7)
- Auto switch can be attached

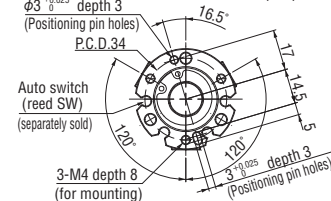
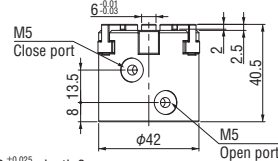
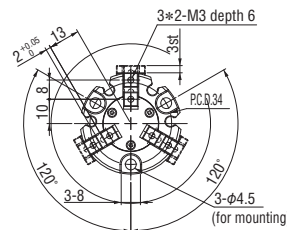


NEW

Three Claws Chuck

Order code No.	197259
TYPE	TCC-25

- Stroke: 6mm
- Weight: 140g
- Structure: Double Action Type
- Pipe joint is sold separately. → See (6-5,6,7)
- Auto switch can be attached

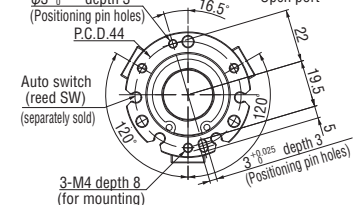
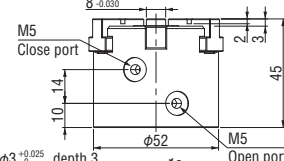
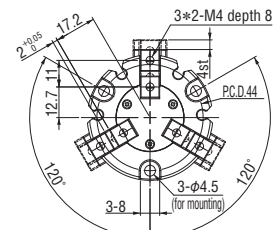


NEW

Three Claws Chuck

Order code No.	197260
TYPE	TCC-32

- Stroke: 8mm
- Weight: 250g
- Structure: Double Action Type
- Pipe joint is sold separately. → See (6-5,6,7)
- Auto switch can be attached



Specification

Product name	TYPE	Used air pressure (MPa)	Motion stroke (mm)	Cylinder diameter (mm)	Gripping force of outside diameter (0.5MPa) (N)	Gripping force of inner diameter (0.5MPa) (N)
Three claws chuck	TCC-16	0.2 ~ 0.7	4	16	14	16
	TCC-25		6	25	42	47
	TCC-32		8	32	74	82

Auto switch (reed SW)

Order code No.	030282
TYPE	D-A93

- Weight: 6g
- Applicable load: relay, PLC
- Load voltage: 24VDC
- Load current range: 5mA-40mA
- Lead wire: 0.5M OUT brown OUT (+) blue (-)
- Indicator light
- Terminal process is not made.
- Wiring → See (6-20)
- Length: 0.5m

Auto switch (contactless)

Order code No.	030425
TYPE	D-M9N

- Weight: 6g
- Applicable load: relay, PLC
- Load voltage: 24VDC
- Load current range: 40mA or lower
- Lead wire: 0.5M + V (brown), Load (black), OV(blue)
- Indicator light
- Terminal process is not made.
- Wiring → See (6-20)
- Length: 0.5m

Auto switch (contactless)

Order code No.	030500
TYPE	D-F8N

- Weight: 7g
- Applicable load: relay, PLC
- Load voltage: 24VDC
- Load current range: 40mA or lower
- Lead wire: 0.5M + V (brown), Load (black), OV(blue)
- Indicator light
- Terminal process is not made.
- Wiring → See (6-20)
- Length: 0.5m

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Logistics-Palletizing
Sheet Metal Stamping-Metal Fabrication

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Information

Various Products Information



Sheet Metal • Stamping • Metal Fabrication [Suction Cups]

Use as your situation.

- Use it for sheet metal conveyance. The grooves on the suction surface of the pad inhibit the lateral movement of the iron plate, which is coated with an oil film, while also accommodating the curved workpiece through a buffering effect.

Applicable cup size		φ 30mm		φ 60mm	
Suction Cups (Sheet Metal)					
Drawing					
* The value in () indicates the dimension with suction.					
Fluorine (black)	Order code No.	210918	210919	210920	210921
	TYPE	VAPNP-30C-1-M	VAPNP-30C-1-F	VAPNP-60C-1-M	VAPNP-60C-1-F
	Weight	15.0g	12.0g	47.0g	45.0g
	Characteristics of rubber	Heat resistance : 85℃ / Shore hardness : 60		Heat resistance : 85℃ / Shore hardness : 60	
Applicable stems		Large : VFI-L, or VFIL-H ➔ (3-29.31)		Large : VFI-L, or VFIL-H ➔ (3-29.31)	

- Strong holding power in the horizontal direction. Utilize the superior suction capability provided by the groove on the suction surface.

Applicable cup size		φ 33mm	φ 43mm	φ 53mm	φ 63mm
Suction Cups for sheet metal w/ screw					
Drawing					
Order code No.		187562	187563	187564	187565
TYPE		SSAXM-30-ED85-PT1/8AGJNT	SSAXM-40-ED85-PT1/8AGJNT	SSAXM-50-ED85-PT1/8AGJNT	SSAXM-60-ED85-PT1/8AGJNT
Holding force* ¹		39N	69N	109N	154N
Horizontal power (with oil)* ²		41N	71N	110N	155N
Weight		23.2g	23.7g	36.3g	41.0g
Applicable stems		Non-rotate for small or VFILB-1/8, large VFI-L, VFIL-H ➔ (3-29.31)			

Applicable cup size		φ 83mm	φ 103mm	φ 118mm
Suction Cups for sheet metal w/ screw				
Drawing				
Order code No.		187566	187567	187568
TYPE		SSAXM-80-ED85-PT1/8AGJNT	SSAXM-100-ED85-PT1/8AGJNT	SSAXM-115-ED85-PT1/8AGJNT
Holding force* ¹		270N	412N	549N
Horizontal power (with oil)* ²		269N	414N	584N
Weight		50.5g	89.8g	109.9g
Applicable stems		Non-rotate for small or VFILB-1/8, large VFI-L, VFIL-H ➔ (3-29.31)		