

 ARGOFILE

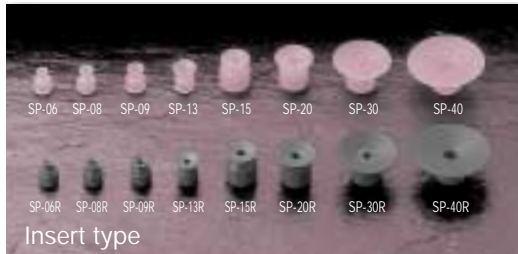
ENGLISH
VOL.2

Suction Cups and Holders

S- series

Suction Cups

- These suction cups are made of the heat-resisting silicone rubber. (Maximum spot temperature : 280°C, Maximum working temperature : 200°C)
- Use the reinforced silicone type ("R" type) when high suction is required.

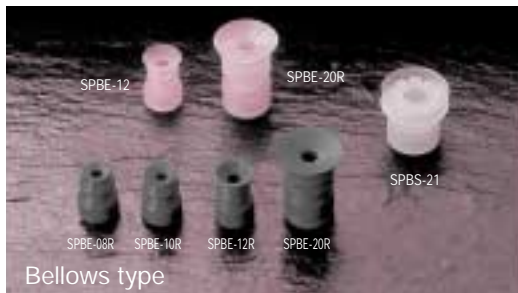


Cat. No.		Cup Outside Dia. (mm)	Cup Height (mm)	Applicable Holder
Standard Silicone Type (Blue color)	Reinforced Silicone Type (Brown color)			
SP-06	SP-06R	φ 6	12.0	SA-01L-**
SP-08	SP-08R	φ 8		
SP-09	SP-09R	φ 9		
SP-13	SP-13R	φ 13		
SP-15	SP-15R	φ 15	16.0	SA-02L-** SAB-02L-12-5 SAF-02L-12-5
SP-20	SP-20R	φ 20		
SP-25	SP-25R	φ 25		
SP-30	SP-30R	φ 30		
SP-35	SP-35R	φ 35		
SP-40	SP-40R	φ 40	12.0	SA-03L-16
SP-13S	SP-13SR	φ 13		
SP-20S	SP-20SR	φ 20		
SP-30S	SP-30SR	φ 30		
	SP-60SR	φ 60	14.4	SA-03L-16
SP-80S		φ 80	42.0	SA-04L-16

** = Stroke

Suction Cups Bellows Type

- Use when picking-up soft type materials such as paper or vinyl.
- SPBS-21 is best for use with the textured surfaces.

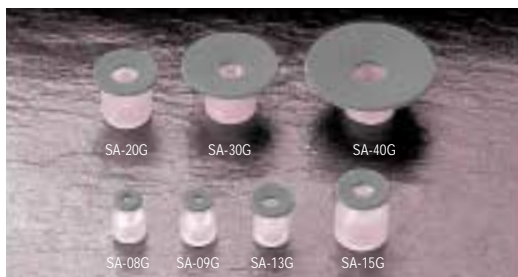


Cat. No.		Cup Outside Dia. (mm)	Cup Height (mm)	Applicable Holder
Standard Silicone Type (Blue color)	Reinforced Silicone Type (Brown color)			
	SPBE-08R	φ 8	15.0	SA-01L-**
	SPBE-10R	φ 10	20.0	
SPBE-12	SPBE-12R	φ 12	17.0	
SPBE-20	SPBE-20R	φ 20	25.0	SA-02L-** SAB-02L-12-5 SAF-02L-12-5
SPBS-21 (For textured surfaces)		φ 21	19.0	

** = Stroke

Suction Cups with Silicone Sponge felt

- Recommend for molded parts that require Vacuum Metalizing or Coating.
- These suction cups are best suited for the uneven surfaces.

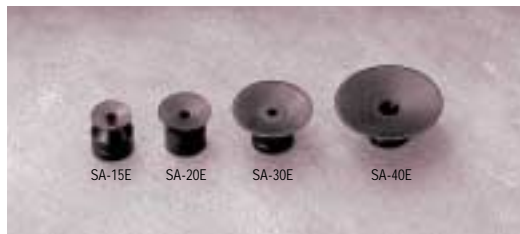


Cat. No.	Cup Outside Dia. (mm)	Cup Height (mm)	Applicable Holder
SA-08G	φ 8	13.5	SA-01L-**
SA-09G	φ 9	14.0	
SA-13G	φ 13	14.0	
SA-15G	φ 15	17.5	SA-02L-** SAB-02L-12-5 SAF-02L-12-5
SA-20G	φ 20	17.5	
SA-30G	φ 30	17.5	
SA-40G	φ 40	17.5	

** = Stroke

Anti-Static Suction Cups

- These suction cups are made of anti-static silicone rubber.
- Anti-static cups in combination with holder SAE-02L-12-5 eliminate static electricity on work surfaces.

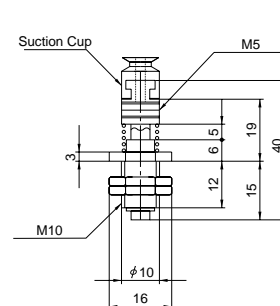


Cat. No.	Cup Outside Dia. (mm)	Cup Height (mm)	Applicable Holder
SA-15E	φ 15	16	SAE-02L-12-5
SA-20E	φ 20	16	
SA-30E	φ 30	16	
SA-40E	φ 40	16	

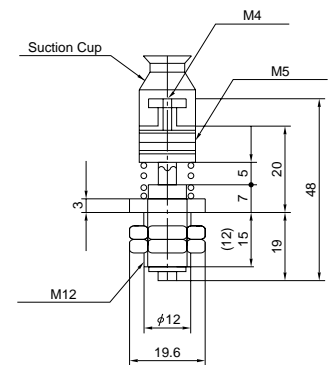
- ※ Volume Resistivity : 0.03 Ωm
- ※ Ex.) Measured with PP vessel, it eliminated 70% of static electricity.

Suction Cup Holders for S-series Suction Cups

- These suction cups holders are for use with S-series Suction Cups.
- Select according to the diameter of the suction cups, stroke and diameter of the fixing hole.
- SAB-02L-12-5 : Use with standard holders mounted with the vacuum port at the rear.
- SAF-02L-12-5 : Use on rotation application.
- SAE-02L-12-5 : Use with the Anti-Static Suction Cups.



SA-01L-10-5



SA-02L-12-5

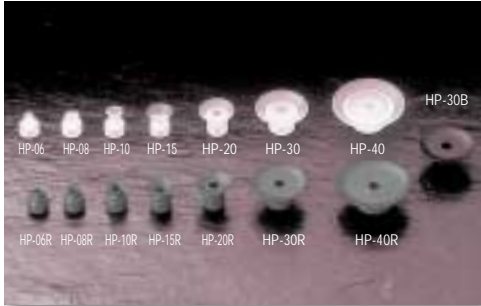
Cat. No.	Stroke (mm)	Mounted Hole Dia. (mm)	Material	Remarks
SA-01L-10-5	5	10	Aluminum	Standard Type Applicable cups diameter : 6 - 13 mm
SA-01L-10-10	10	10	Aluminum	
SA-01L-12-10	10	12	Aluminum	
SA-02L-10-5	5	10	Aluminum	Standard Type Applicable cups diameter : 15 - 40 mm
SA-02L-12-5	5	12	Aluminum	
SA-02L-12-10	10	12	Stainless	
SA-02L-12-30	30	12	Stainless	
SA-03L-16	22	16	Steel	for SP-60SR
SA-04L-16	22	16	Steel	for SP-80S
SAB-02L-12-5	5	12	Aluminum	Vacuum port is at end.
SAF-02L-12-5	5	12	Aluminum	Precaution against the rotation
SAE-02L-12-5	5	12	Aluminum	For Anti-Static Suction Cups

Suction Cups and Holders

H- series

Suction Cups

- These suction cups are made of the heat-resisting silicone rubber. (Maximum spot temperature : 280°C, Maximum working temperature : 200°C)
- Use the reinforced "R" type suction cup when high suction is required.
- Use Silicone Sponge Cups type "HA" for applications with uneven surfaces and applications requiring Coating or Metalizing.

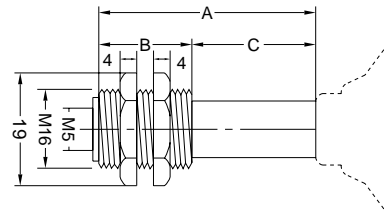


Cat. No.			Cup Outside Dia. (mm)	Cup Height (mm)	Applicable Holder
Standard Silicone Type (White color)	Reinforced Silicone Type (Brown color)	With Silicone Sponge Felt			
HP-06	HP-06R	HA-06G	φ 6	12.0	HA-01J-**
HP-08	HP-08R	HA-08G	φ 8	12.5	
HP-10	HP-10R	HA-10G	φ 10	14.0	
HP-15	HP-15R	HA-15G	φ 15	14.5	
HP-20	HP-20R	HA-20G	φ 20	15.0	HA-02J-**
HP-30	HP-30R	HA-30G	φ 30	15.0	
HP-40	HP-40R	HA-40G	φ 40	15.0	
HP-30B			φ 30	15.0	

※ HP-30B is made of Nitrile Butadiene Rubber and black color.

* * = Stroke

Holder



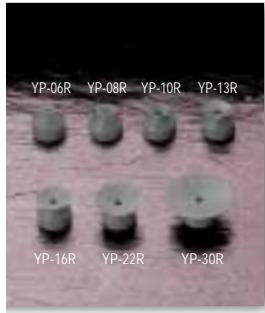
Cat. No.	Stroke (mm)	A (mm)	B (mm)	C (mm)	Mounted Hole Dia (mm)	Material	Applicable Cups dia. (mm)
HA-01J-10	10	30	20	10	φ 16	Polyacetal	6-15
HA-01J-15	15	41	26	15			
HA-01J-20	20	51	31	20			
HA-01J-25	25	61	36	25			
HA-01J-30	30	71	41	30			
HA-02J-10	10	30	20	10	φ 16	Polyacetal	20-40
HA-02J-15	15	41	26	15			
HA-02J-20	20	51	31	20			
HA-02J-25	25	61	36	25			
HA-02J-30	30	71	41	30			

Suction Cups and Holders

Y- Series

Suction Cups

■ These suction cups are made of high temperature silicone rubber with a max working temperature of 200°C or a spot temperature of 280°C.



Cat. No. (only reinforced type)	Cup Outside Dia (mm)	Cup Height (mm)
YP-06R	φ 6	12.0
YP-08R	φ 8	12.0
YP-10R	φ 10	12.0
YP-13R	φ 13	12.0
YP-16R	φ 16	12.0
YP-22R	φ 22	12.0
YP-30R	φ 30	12.0
YP-40R	φ 40	12.0

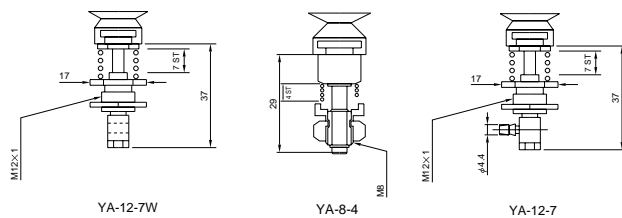
Suction Cups Bellows Type

■ To be used on angled and soft surfaces such as paper or vinyl.



Cat. No.(only reinforced type)	Cup Outside Dia. (mm)	Cup Height (mm)
YPBE-10R	φ 10	21.0
YPBE-16R	φ 16	21.0
YPBE-20R	φ 20	21.0

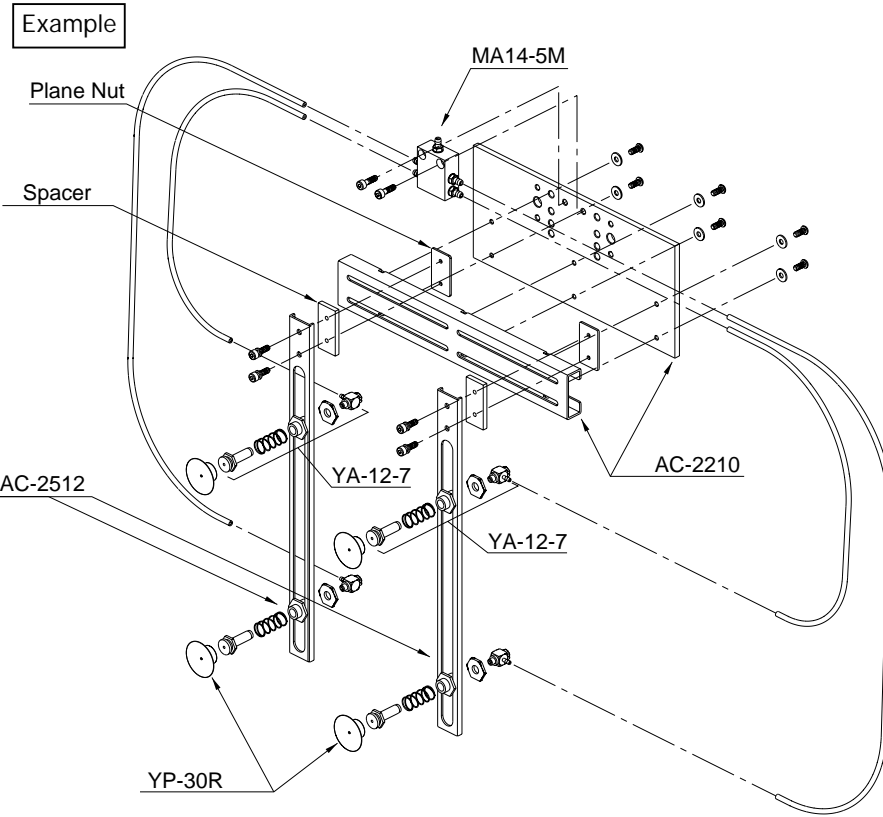
HOLDERS



Cat. No.	Stroke (mm)	Mounted Hole Dia. (mm)	Material	Remarks
YA-8-4	4	φ 8	Stainless	Standard type
YA-12-7	7	φ 12	Aluminum	Vacuum port is at end.
YA-12-7W	7	φ 12	Aluminum	Vacuum port is at end.

In-House End of Arm Tooling Kit

- The suction cups holders for S-series and Y-series (YA-12-7, YA-12-7W) can be mounted.
- This kit can be easily adjusted and assembled for many kinds of works and applications.



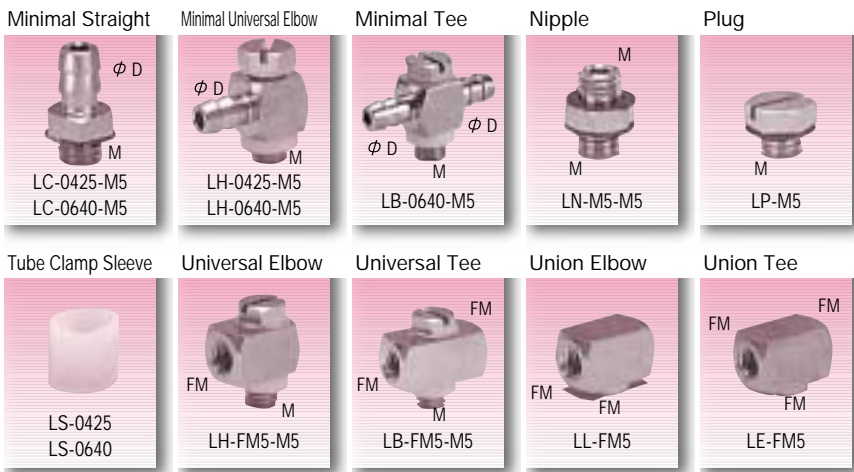
The following parts are used for the Example

Chuck Mount Plate	AC-2210	1 pc.
Slide Rail	AC-2512	2 pcs.
Fitting parts for installation of rail	AC-1000	2 sets
Suction Cup Holder Mount Nuts	AC-12	4 pcs.
Suction Cups	YP-30R	4 pcs.
Suction Cups Holders	YA-12-7	4 pcs.
Manifolds	MA-14-5M	1 pc.
Manifolds Mount Screws	AC-4	1 set
Tubes	φ 6mm	

<p>Chuck Mount Plate</p>	<p>AC-2210 W = 100 mm AC-2240 W = 140 mm</p>	
<p>Slide rail</p>	<p>AC-2510 (L=250mm,W=10mm) AC-2512 (L=250mm,W=12mm) AC-3010 (L=300mm,W=10mm) AC-3012 (L=300mm,W=12mm) AC-3510 (L=350mm,W=10mm) AC-3512 (L=350mm,W=12mm)</p>	
<p>Fitting parts for installation of rail</p>	AC-1000	<p>Plane Nut (Large) 2pcs Screw 4pcs Space 2pcs.</p>
<p>Suction Cup Holder Mount Nuts</p>	<p>AC-10 (M10) AC-12 (M12)</p>	
<p>Manifolds</p>	<p>MA-14-5M</p>	<p>INPORT : M5x1 OUTPORT : M5x4</p>
	<p>MA-15-8M</p>	<p>INPORT : R1/8 x 1 OUTPORT : M5 x 4</p>
<p>Manifolds Mount Screws</p>	AC-4	M4 1 set (=2 pcs.)

Barb Fittings - For fitting vacuum tubes

Minimal Joint Models are ultra-small barb joints for pneumatic tubes.

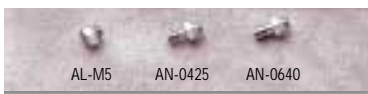


Cat.No. Model	Tube Dia. (ϕ D)	Thread Size (M, FM)
(Ex.) LC -	0425	- M5

Tube Dia. (ϕ D)	Unit : mm	
Code	0425	0640
O.D. x I.D.	4.0 x 2.5	6 x 4

Thread Size (M, FM)		
Code	M5	FM5
Size	Male thread M5 x 0.8	Female thread M5 x 0.8

New type Fitting Joint



- Over sized Barbed Fitting.
- Diameter of this barb is bigger than the tube to make a good connection.
- Rapid assembly.

Quick fittings

Standard type



- Quick fittings are used in pneumatic tubes.
- Even after installation, the direction of the tubing can be changed freely.

Mini type



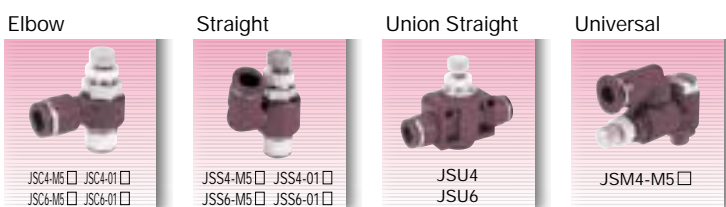
Cat.No.	Model	Tube Dia (ϕ D)	Mini type	Cat.No.	Model	Tube Dia (ϕ D)	Thread size (-R)	Mini type
(Ex.)	PU	4	M	(Ex.)	PC PL	4	-M5	M

Tube Dia. (ϕ D)	(Unit: mm)	
Code	4	6
Size	ϕ 4	ϕ 6

Thread Size (R)		
Code	M5 Metric thread	O1 Taper pipe thread
Size	M5 x 0.8	R1/8

Speed Controller

- The Speed Controller controls the operation speed of a driving device.
- Easy to disconnect the tubes as these the quick-fitting joints are incorporated.



Specification

Fluid admitted	Air
Working pressure range	0 - 0.9 MPa (0-9 kgf / cm ²)
Check valve operating pressure	0.05MPa (0.5 kgf / cm ²)
Working temperature range	0 - 60°C

Control direction :

A : Meter-out control The flow rate of air entering from the thread side can be controlled, whereas air entering from the joint side at the same (not controlled) flow rate.	B : Meter-in control The flow rate of air entering from the thread side can be controlled, whereas air entering from the thread side comes out from the joint side at the same (not controlled) flow rate.
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Cat.No.	Model	Tube Dia.	Thread size	Control direction
(Ex.)	JSC	4	-M5	A

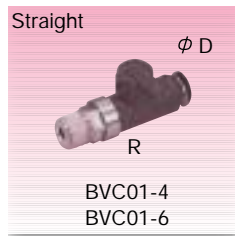
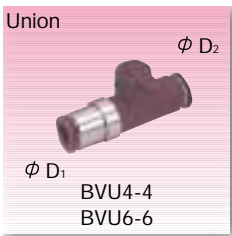
Hand Valves



- ON-OFF pressure Hand Valves for control of pneumatic attachments.
- These three-directional control valve when OFF discharge residual on the output side.

Cat. No. (Ex.)	Model HV	Input size 6	Output size -01	Number of valve -2
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Ball Valves - Mini size with Quick Tubes Coupling



- These Ball Valves can regulate the pressure from zero to full pressure by adjusting the lever according to the scale.

Cat.No. (Ex.)	Type BVC-	Thread size (R) 01	Tube Dia. (- φ D) -4	Cat.No. (Ex.)	Type BVU	Port 1 (- φ D ₁) 4	Port 2 (- φ D ₂) -4
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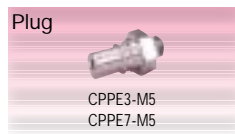
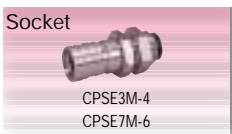
Regarding the tube diameter and thread size, please refer to Code List for Quick-Fittings.

Micro Couplers

Quick-fitting type



Straight Thread type



- These Micro Couplers incorporate a quick-fitting joint for Pneumatic tubes.
- The socket comes with a mechanism that stops air flow simultaneously with the removal of the plug.

Cat. No. (Ex.)	Model CPS	Socket Plug Connection Size. E3	Bulkhead type M	Tube Dia. Thread Size -4
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Regarding the tube diameter and thread size, please refer to Code List for Quick-Fittings.

Vacuum Generator Quick Fitting Type Ejector

Box type Union



- The Vacuum Generator, creating vacuum by use of compressed air, can be used in combination with a Suction Cup to convey materials.
- Easy to mount as the quick-fitting joints are incorporated.

Cat. No. (Ex.)	Model VU	Performance *1 H	Nozzle size *2 07	Vacuum port size 6	Air supply port size 6	Additional feature*3 A
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Pipe type

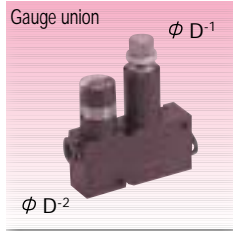
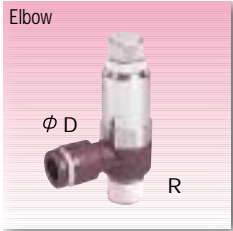


Nozzle size *2				
Code	Size (mm)	H type	L type	E type
07	0.7	-92~93kPa 12.5~13l/min	-66kPa 22~26l/min	-90~92kPa 10~10.5l/min
10	1.0	-93kPa 28l/min	-66kPa 42l/min	-92kPa 21l/min

Performance *1
H : High-vacuum type
L : Large-flow type
E : Economy type

Additional feature *3
J : Concentrated exhaust type
A : Disassembly type

Regulator with Tubes Coupling



RVC4-M5
RVC4-01
RVC6-M5
RVC6-01

RVUM4-4
RVUM6-4
RVUM6-6

- The compact design with a built-in quick-fitting joint makes flexible layout possible.
- The regulator comes with a relief mechanism that facilitates adjustment of devices.
- The compact regulator with a pressure gauge is best suited for use with a manifold type solenoid valve.

Cat.No.	Model	Tube Dia. (φ D)	Thread size (-R)	Cat.No.	Model	Port1 (- φ D1)	Port2 (- φ D2)
(Ex.)	RVC	4	-M5	(Ex.)	RVUM	4	-4

Regarding the tube diameter and thread size, please refer to Code List for Quick-Fittings.

Tubes



- All tubing can be ordered in different colors for circuit identification.
- Type UB tubing is made of polyurethane which has excellent flexibility and suitable for compact circuits.
- Types NA and NB are made of nylon for high pressure circuits.
- Type NC is made of clear nylon for vacuum applications and has excellent flexibility.

Cat. No.	OD x ID (mm)	Material	Max. Working Pressure	Working Vacuum	Working temperature range	Standard Length	Min. Bending radius (mm)	Weight (g/m)	Color	Remarks
UB0425	4.0x2.5	Polyurethane	0.7Mpa	-100kPa	-15~60°C	20m,50m	10	9	Black, Blue, Yellow	
UB0640	6.0x4.0	Polyurethane	0.7Mpa	-100kPa	-15~60°C	20m,50m	15	19	Black, Blue, Yellow	
NA0640	6.0x4.0	Nylon	0.9Mpa	-100kPa	-15~60°C	20m,100m	25	17	Black, Blue, Yellow	
NA0860	8.0x6.0	Nylon	0.9Mpa	-100kPa	-15~60°C	20m,100m	50	23	Black, Blue, Yellow	
NB0425	4.0x2.5	Nylon	0.7Mpa	-100kPa	-15~60°C	20m,100m	15	9	Black, Milk-white	
NB0640	6.0x4.0	Nylon	0.7Mpa	-100kPa	-15~60°C	20m,100m	25	17	Black, Milk-white	
NC0425	4.0x2.5	Nylon	0.3Mpa	-100kPa	-15~50°C	20m,100m	8	9	Transparent	For vacuum
NC0640	6.0x4.0	Nylon	0.3Mpa	-100kPa	-15~50°C	20m,100m	12	17	Transparent	For vacuum

※ Other color, size, length are also available on request.

Tube Cutter



- Easy to measure the necessary length as the tape measure is incorporated.
- The cut surfaces are smooth for easy fitting.
- Can be used for a long time due to the hexagon cutter.
- Incorporates a safety lock function for additional safety.

TC-21

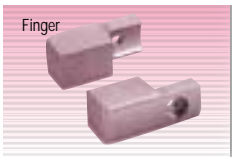
Grippers - Normally Open, Single Acting Lever Gripper



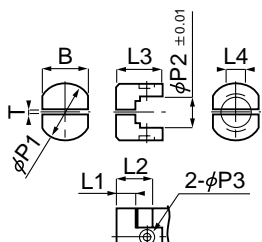
■ These stainless steel pneumatic fingers are both light weight and small in size. The curved matched surfaces leave no possibility of misalignment. (The finger is available as an option.)

Specification

Cylinder Dia.	φ 11mm
Gripping force at 0.5Mpa in parallel	2.7kgf • cm ²
Working pressure range	2.7kgf/cm ² (200~700Pa)
Working temperature range	0~60°C(no freezing)
Lubrication	Not required



Cat.No.	B	L1	L2	L3	L4	T	φ P1	φ P2	φ P3	Set screw	Applicable gripper	Weight (g)
CHM08AK11	6	5	8	11.5			15	10	2.1	Hexagon Socket Head Cap Screws M2 x 4L 2 pcs.	CHM08A A□K	4
CHM08AK12		10	13	16.5								7
CHM08AK13		5	8	11.5								6.5
CHM08AK14		10	13	16.5								12
CHM08AK15		5	8	11.5								11.5
CHM08AK16	16	10	13	16.5	7	2	20	13	2.6	Hexagon Socket Head Cap Screws M2.5 x 5L 2 pcs.	CHM11A A□K	22
CHM11AK11	8	6	10	14.5								8
CHM11AK12	12	16	20.5	14.5								14.5
CHM11AK13	6	10	14.5	12.5								
CHM11AK14	16	12	16	20.5								24



Work stopper Gripper body

Compact Cross-Roller Parallel Hand

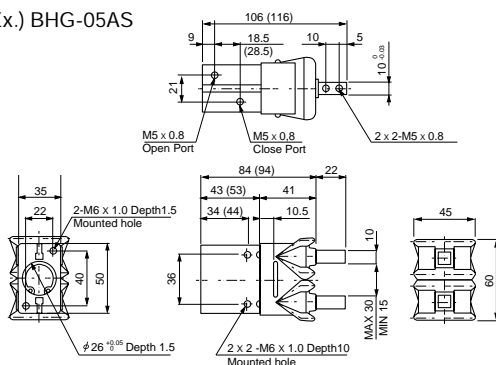


- A rubber over cover gives additional dust and moisture protection.
- A cross-roller bearing mechanism maintains precise and smooth sliding action.
- Designed to withstand large spot loads.

Specification

Cat.No.	BHG-01AS	BHG-03AS	BHG-04AS	BHG-05AS	BHG-06AS
Drive source	Air, 0.1 - 0.7 MPa				
Lubrication	Oilless or turbine oil class 1 (ISO VG32)				
Ambient temperature (°C)	5 - 60				
Stroke (diameter in mm)	5	9	11	15	20
Cylinder diameter (mm)	12	16	20	25	32
Rod diameter (mm)	6	8	10	12	16
Internal capacity (reciprocating) (cm ³ /time)	0.32	1.58	2.89	6.32	14.07
Repeatability (mm)	± 0.01				
Main body weight (g)	110	160	280	480	1110
Optimal gripping force (N)	5-30	20-50	50-80	60-140	250-350

Ex.) BHG-05AS



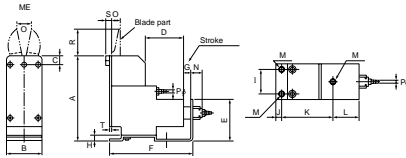
Air Nipper

Slide & Cut / Compact Type (ME)



■ The cutting action is made after the main body has moved to the molded part side.

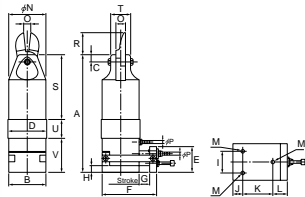
Model	Cutting Capacity (mm)	Body Length (mm)	Weight (gm)	Body Dia. ϕ (mm)	Air Cons (cm ³ /stroke)	Working Air pressure (kgf/cm ²)	Stroke (mm)	Blade (Option)	
ME-3	Soft Pla ϕ 1.0	71.2	170	20	30	4~5	3	F10E	F10EK
ME-5	Soft Pla ϕ 1.2	77.2	290	29	40	4~5	3	F1E	F1EK
ME-10	Soft Pla ϕ 2.5	88.2	540	35	90	5~6	3	F3E	F3EK
ME-20	Soft Pla ϕ 4.5	103.2	810	44	150	5~6	5	F5E	F5EK
ME-30	Soft Pla ϕ 6.0	127.2	1490	56	300	5~6	5	F9E	F9EK



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ME-3	74.2	20	8	33	34.2	71.2	3	6.2	14	2.5	50	18.7	M3	12.1	7	4.0	3.5-4	21	3.3	2
ME-5	75.2	29	9	30	31.2	77.2	3	6.2	22	5	50	22.2	M3	12.1	7	4.0	5.5-6	21	4	2
ME-10	97.2	35	10	39	42.2	88.2	3	6.2	26	5	50	33.2	M3	13	9	4.0	7-8	21	4	2
ME-20	111.2	44	13	42	48.2	103.2	5	6.2	34	5	85	13.2	M4	13	12	4.0	9-10	27	2.3	2
ME-30	149.2	56	15	51	64.2	127.2	5	6.2	40	7	85	35.2	M4	14	17	4.0	15-16	50	3.3	3

Slide & Cut Type (ML)

FOR LARGE MOLDED PARTS

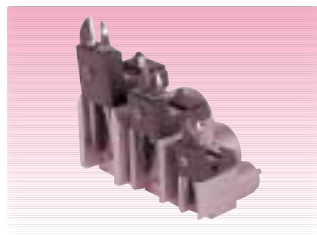


■ The main body is slid.

Model	Cutting Capacity (mm)	Body Length (mm)	Weight (gm)	Body Dia. ϕ (mm)	Air Cons (cm ³ /stroke)	Pressure (kgf)	Working Air pressure (kgf/cm ²)	Stroke (mm)	Blade (Option)			
ML-10	Soft Pla ϕ 5.0	128	340	35	136	60	4~5	10	F3	FD3	F3S	FEP4
	Hard Pla ϕ 4.0											
ML-20	Soft Pla ϕ 7.0	143	500	44	250	140	5~6	10	F5	FD5	F5S	FEP6
	Hard Pla ϕ 5.0											
ML-30	Soft Pla ϕ 10.0	184	870	55	634	280	5~6	10	F9P	FD9P	F9PS	FEP10P
	Hard Pla ϕ 6.5											

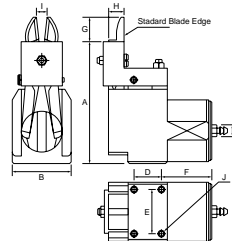
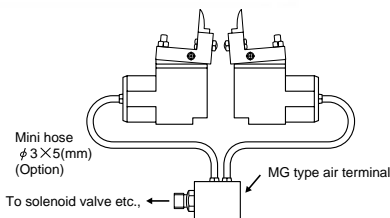
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
ML-10	128	35	7	36	31	63	10	8	26	11	31	21	M3	35	9	4	5.5	19	71	18	16	41
ML-20	143	44	9	45	31	64	10	8	26	11	36	17	M4	44	12	4	9.5	26	79	24	23	41
ML-30	184	55	15	56	33	76	10	8	26	14	38	24	M4	55	17	4	16	50	123	34	18	43

Slide & Cut Type (MG)



■ Compact size and light weight.
■ It is unnecessary to use TIMING UNIT.

Model	Cutting Capacity (mm)	Body Length (mm)	Weight (gm)	Air Cons (cm ³ /stroke)	Working Air pressure (kgf/cm ²)	Angle (°)	Blade (Option)	
MG-3	Soft Pla ϕ 2.0	50	80	22	4~5	4	FG10	FG10K
MG-10	Soft Pla ϕ 4.0	73	230	60	4~5	5	FG3	FG3K
MG-20	Soft Pla ϕ 6.0	95	420	90	5~6	4	FG5	FG5K



Model	A	B	C	D	E	F	G	H	I	J	L
MG-3	50	20	60	16	14	25	15	7.0	4.0	M3	ϕ 4
MG-10	73	35	73	20	27	29	17.5	9.0	7.0	M3	ϕ 4
MG-20	95	46	89	21	36	39	19	12	8.0	M4	ϕ 4

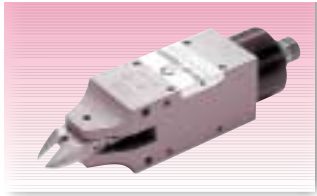
Round-Standard Type (MR)



■ MR model is standard type and can be also used in manual operation.

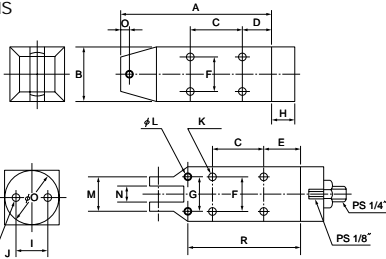
Model	Cutting Capacity (mm)	Weight (gm)	Air Cons (cm ³ /stroke)	Pressure (kgf)	Working Air pressure (kgf/cm ²)	Blade (Option)	
MR20M	Soft Pla ϕ 7.0	270	230	140	5~6	F5	FD5
	Hard Pla ϕ 5.0						
MR30AM	Soft Pla ϕ 10.0	480	584	280	5~6	F9P	FD9P
	Hard Pla ϕ 6.5						
MR50FM	Soft Pla ϕ 12.0	1030	1100	420	5~6	F9P	FD9P
	Hard Pla ϕ 6.5 Right after molding ϕ 20.0						

Square Type (MS)



■ The nipper body has numerous threaded holes for easy attachment to the cutting jig.

MS



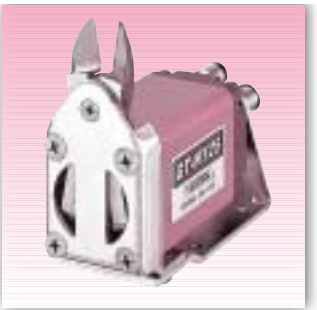
- ※ Cutting capacity is for your reference.
- ※ Blades are optional parts.

Model	Cutting Capacity (mm)	Body Length (mm)	Weight (gm)	Air Cons (cm ³ /stroke)	Pressure (kgf)	Working Air Press (kgf/cm ²)	Blade (Option)			
MS-3	Soft Pla φ 1.0	110	100	35	27	4-5	F10	FD10	F10S	FEP20
MS-5	Soft Pla φ 2.0	94	160	64	40	4-5	F1	F1S	FD1	FEP4
MS-10	Soft Pla Hard Pla φ 4.0 φ 2.6	113	260	116	60	4-5	F3	FD3	F3S	FEP4
MS-10A	Soft Pla Hard Pla φ 5.0 φ 4.0	93	250	116	60	4-6	F5A	FD5A	F5AS	FEP6A
MS-20	Soft Pla Hard Pla φ 7.0 φ 5.0	109	430	230	140	5-6	F5	FD5	F5S	FEP6
MS-30	Soft Pla Hard Pla φ 10.0 φ 6.5	150	810	584	280	5-6	F9P	FD9P	F9PS	FEP10P

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	R
MS-3	89	20	40	19	24	16	14	21	14	M3 D10	M3 D4	3.3	20	7	7	71
MS-5	74	30	30	14	19	24	20	20	20	M4 D10	M3 D6.5	4.3	20	7	7	55
MS-10	93	36	30	18	23	28	28	20	24	M4 D10	M4 D6.5	4.3	20	9	7	65
MS-10A	93	36	30	18	23	28	28	20	24	M4 D10	M4 D6.5	4.3	26	12	7	65
MS-20	109	45	40	19	24	36	30	20	30	M5 D12	M4 D6.5	5.3	26	12	9	81
MS-30	150	56	60	20	30	46	40	20	40	M6 D12	M5 D11	5.3	36	17	15	110

D=Depth

Horizontal Slide Type



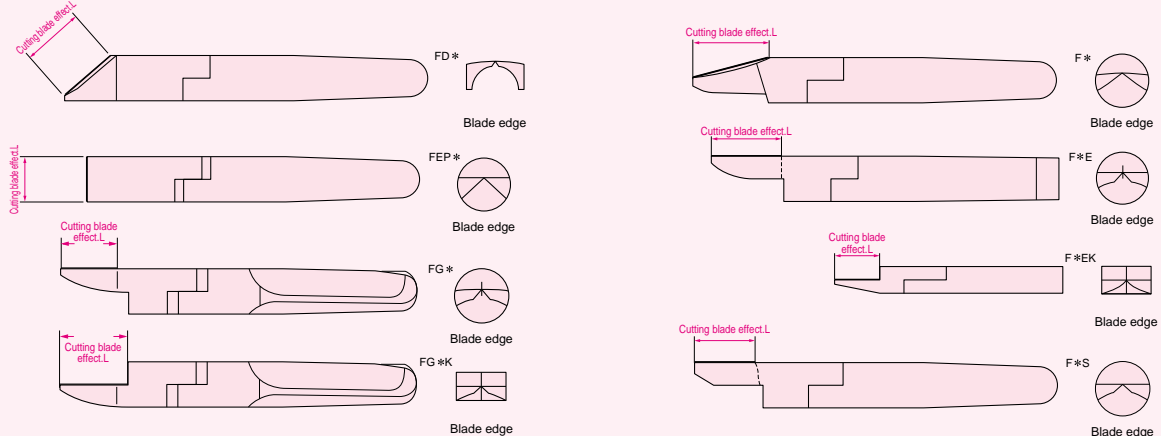
- The compact body of the nipper makes it ideal for mounting on automatic machinery.
- Slide stroke can be adjusted.
- Tube fitting type, enabling one-touch connection of air hose.

Model	Cutting Capacity φ mm ABS resin	Air Cons (cm ³ /stroke)	Pressure (kgf)	Working Air Pressure (kgf/cm ²)	Weight (g)	Slide range (mm)	Blade (Option)			
GT-NY05-4	3.0	48	35	4-5	155	0-3	NY05AJ	NY05RAJ	NY05AH	NY05RAH
GT-NY10-4	3.5	68	50	4-5	210	0-3	NY10AJ	NY10RAJ	NY10AH	NY10RAH
GT-NY15-4	4.0	136	80	4-5	319	0-3	NY15AJ	NY15RAJ	NY15AH	NY15RAH
GT-NY25-6	5.0	184	100	5-6	580	0-5	NY25AJ	NY25RAJ	NY25AH	NY25RAH

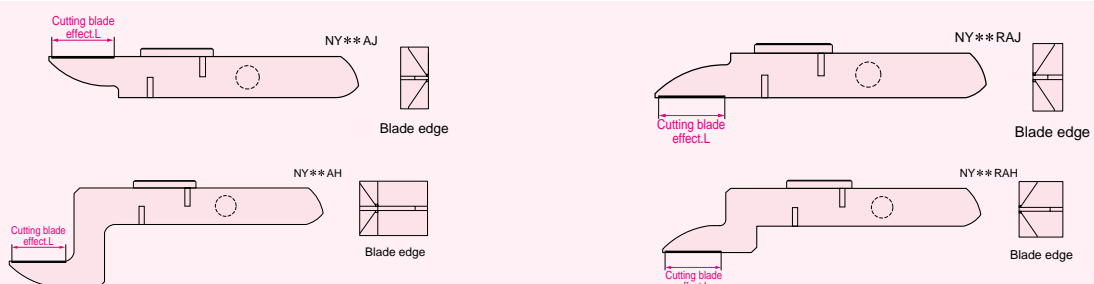
Blades

- The other various blades are also available.
- We can also supply the special blades according to various applications.

NILE(MUROMOTO)



VESSEL



Static Eraser

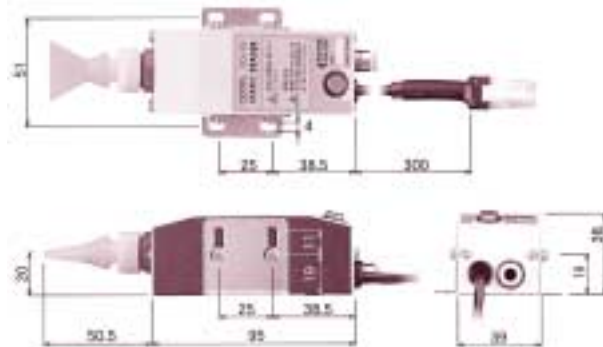


- A new unique device for removal of static electricity.
- The Static Eraser generates ions which are blown onto the effected area removing static electricity.

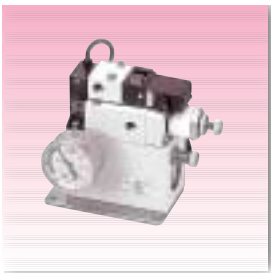
Applications

- Moulded parts intended for foil printing or metalizing.
- If directed onto the Resin Hopper of injection moulding machines, the Static Eraser will reduce "Bridging" and give static free mouldings.
- For removal of static electricity on assembly lines of P.C.Boards / optical lenses etc.

Cat. No.	SDJ-03
Weight	230g
Ion Generation Method	Corona discharge method
Applied Voltage Rating	AC ± 3,000V
Rated value	Power voltage : DC24 ± 10% consumption : 50 m A Max.
Operating Conditions	Temperature : 0~50°C
	Humidity : 35~65%RH
	Working air pressure : 0.6 MPa Max.



Ejector Unit for Vacuum Generator



- Solenoid valve, Vacuum release valve, Silencer and Suction filter etc., are compactly modulized.
- Pressure gauge is standard equipment.

Specification

- Pressure supply : 0.35~0.5MPa
- Generated vacuum degree :
-0.086MPa (≒ 650 mmHg) Max.
(-600mmHg@0.4MPa)

Cat. No.	Rated Voltage of Solenoid Valve	
VC1-101-0061	AC100V	Single solenoid
VC1-101-0062	AC200V	
VC1-101-0063	DC24V	

Compact Air Regulator



Specification

- Maximum inlet pressure : 1.0 MPa (≒ 10 kgf/cm²)
- Ambient temperature : 5°C~ 60°C
- Pressure gauge port thread : Rc1/8 x 2 places. (flow port)

Pipe size	Model No. (Relieving type)	Adjusting pressure range (MPa)	Pressure gauge number (Option)
Rc1/8	R31-100-0000	0.02~0.70	GAB40110A
	R31-100-C000	0.01~0.35	GAB40104A
	R31-100-B000	0.007~0.07	GAB40101A
Rc1/4	R31-200-0000	0.02~0.70	GAB40110A
	R31-200-C000	0.01~0.35	GAB40104A
	R31-200-B000	0.007~0.07	GAB40101A

Pressure gauge and bracket are available optionally.

Mini - Buffers



■ Mini - Buffers are used on high speed cycles to reduce noise and reduction of wear and tear to the equipment.

Cat No. (Ex.)	Model No. KBM	Piston Dia. (mm) 7 -	Stroke (mm) 6 -	Performance Characteristics 6	With Cap / No Cap C
------------------	------------------	-------------------------	--------------------	-------------------------------------	------------------------

Cat. No.	Piston Dia. (mm)	Stroke (mm)	Fitting Screw Dia.	Cycles per min.	Absorption Energy per min. (kgf.m/min.)	Equivalent Impact Mass (kg)	Impact Speed (m/s)	Total Length	Weight (g)
KBM7-6-6C	7	6	M10x1.0	60	18	12	0.9	No Cap	21
KBM7-6-7C						6	1.6	43 mm	
KBM7-6-8C						1	2.7	With Cap	
KBM7-6-11C						15	23	0.6	
KBM8-10-5C	8	10	M12x1.0	60	30	45	0.6	No Cap	23
KBM8-10-6C						16.5	0.9	70 mm	
KBM8-10-7C						7.5	1.3	With Cap	
KBM8-10-8C						4.5	1.8	79 mm	
KBM7-15-6C	7	15	M14x1.0	60	60	30	1.0	No Cap	80
KBM7-15-7C						16	1.5	84.5 mm	
KBM7-15-8C						6	2.0	With Cap	
KBM7-15-9C						2.2	3.0	95 mm	
KBM10-20-5C	10	20	M20x1.5	30	90	73	0.9	No Cap	180
KBM10-20-6C						30	1.4	110 mm	
KBM10-20-7C						15	2	With Cap	
KBM10-20-8C						8	2.7	124.5 mm	
KBM11-25-6C	11	25	M25x2.0	15	123	110	1.2	No Cap	290
KBM11-25-7C						34	2.2	118.5 mm	
KBM11-25-8C						19	2.9	With Cap	

※ The above Cat.No. means the Mini-Buffer with Cap.

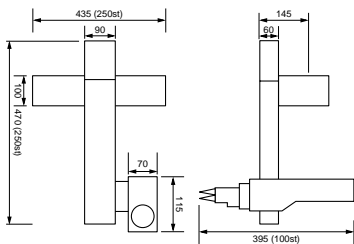
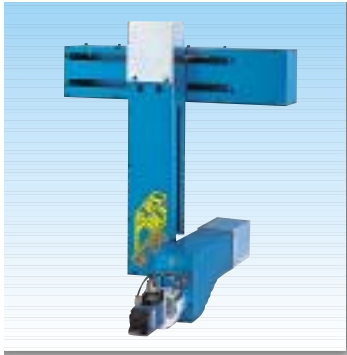
Workfinisher T.M. Ceramic Deburring Knife (Patent No. 2896966)



- Space age ceramics make safe deburring possible because of "Workfinisher"s unique non-blade like edge.
- Deburrs hard plastics effortlessly without the fear of cutting your hand or fingers in the process.
- Ideal for curved and complicated shapes ; excels on ultra-hard resins like glass-fiber, carbon-fiber and talc filled plastics.

CNC Programmable Degating System

AEROBOY SK-250



Features :

- AEROBOY is directly mounted to the traverse of robot to save floor space.
- Once the molded part is held by the robot, AEROBOY is programmed to cut the gate.
- The controller has 40 memories to keep pre-programmed sequences to save set-up time.
- By programming, one nipper can cut multiple gates or sprues.

SPECIFICATION

Power supply	100 Volts AC	
Motor	Stepping motor	
Memory	40 modes of operation	
S T R O K E	X axis	250 mm
	Y axis	100 mm
	Z axis	250 mm
	θ axis	Endless

- ※ In the above stroke, AEROBOY is installed onto 150 tons clamping capacity of injection molding machines.
- ※ Transformer is optionally available for any voltage range (power supply).

Multiple Axis Gate Cutting Robot

ROBO CUT RC-4500S



Features :

- Endless Rotary Air Chuck
Unique design facilitates rotation beyond 360 degrees by eliminating " Hoses Twisting " problems.
- Teaching Console
Utilizing a hand-held teaching console, the operation sequences can be created or edited, and operational status can be monitored on LCD screen.
- Rotary Cavity Separator (option)
May be set to separate up to eight (8) cavities and eases both product inspection and checking of the appropriate gate cutting actions.

SPECIFICATION

Power supply	100 Volts AC	S T R O K E	X axis	450 mm
Power consumption	Max. 300 W		Y axis	150 mm
Motor	Stepping motor		Z axis	200 mm
Memory	20 mold data (4,000 steps)		θ axis	Endless

- ※ Transformer is optionally available for any voltage range (power supply).

URL <http://www.argofile.co.jp>

※ The specification is subject to change without advance notice.



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