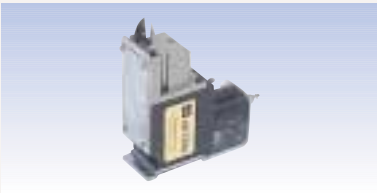


AIR NIPPERS/POWER CUTTERS

INDEX

We provide the various type of Air Nipper/Power Cutter for Machine-mount type and Hand-operation type.

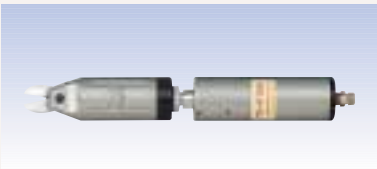
▲ ME Type (Slide & Cut/Compact type)P4



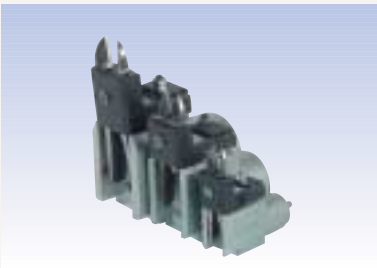
● ML Type (Slide & Cut type) P4



● ASA Type (Body-Slide Type) P6



★ MG Type (Slide & Cut type) P6



▲ MER Type (Tilt & Cut type) P5



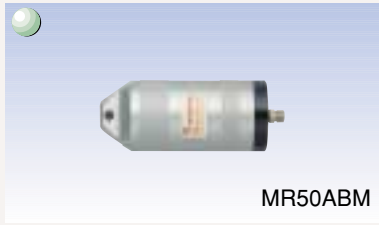
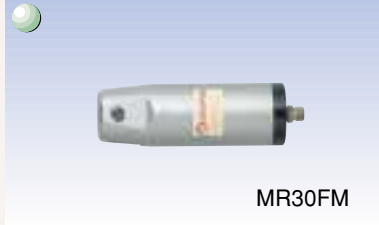
● MSR Type (Tilt & Cut type) P5



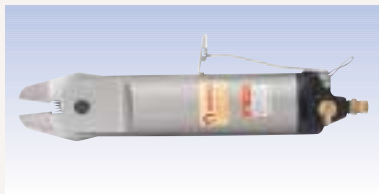
● CF Type (Turtle-Neck Blade type) P7



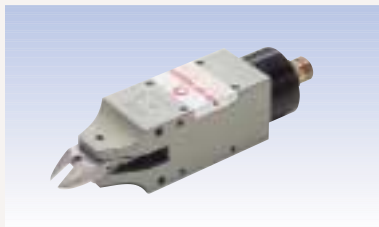
● MR Type (Standard type) P8



■ PX Type (Hard Plastic Cut type) P8



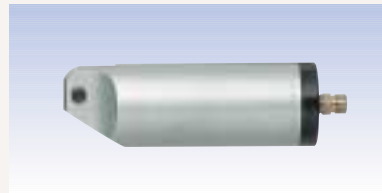
● MS Type (Standard Square type) P9



● MSP Type (Pressure booster type) P9



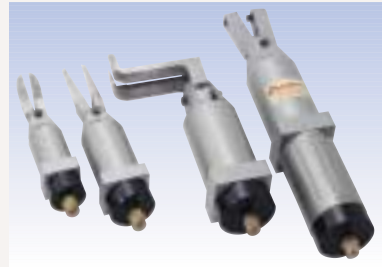
◆ CP Type (Scissors Action Blade type) P9



● SC Type (Cutting Speed Adjustable type) P10



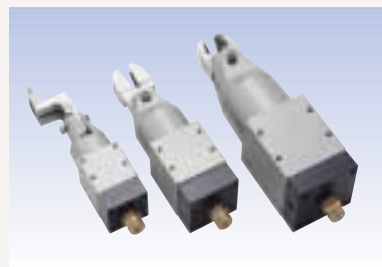
● MSF Type (Square & Lightest type) P10



● MSFP Type (High power type) P10



● MSK Type (Square type) P11



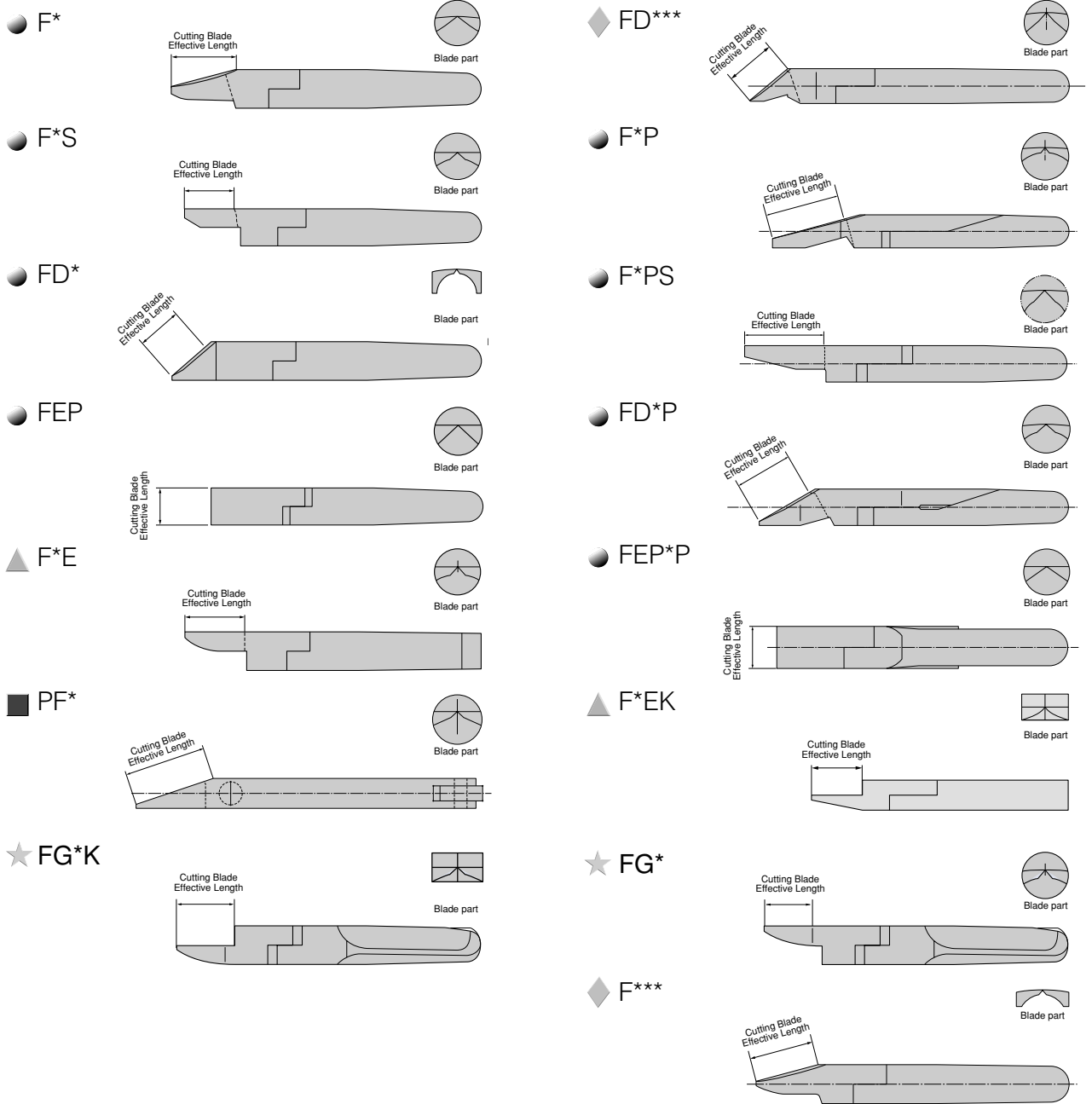
● SMR Type (Stand-Mount type) P11



BLADES (Plastics application)

EX.) F*S=F3S

FD***=FD250

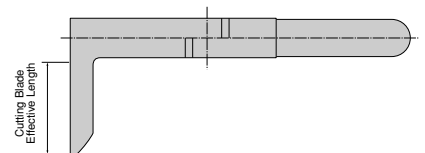


Reference

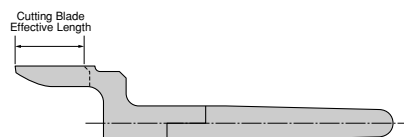
F*PNR***2



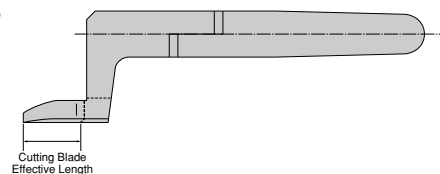
F*PNR***1



F*NR***



F*PNR***3

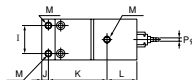
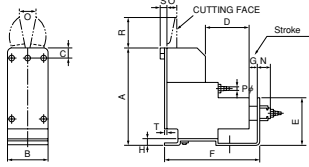


※ In addition to standard and special blades, we can provide custom made blade for your specific application.

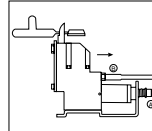
ME

(Slide & Cut/Compact type)

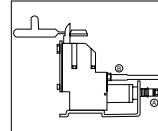
Cutting action is made after the blade is slid backward. Therefore the cutting burr can not be found. In combination with TIMING UNIT (TU-01), it can be moved and cut closer to the molded product.



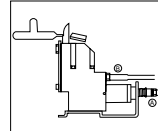
USE EXAMPLE



Fix the material between the edges of the blade.



When air is supplied solenoid from A, the body slides to the right. It stops when the blade touches the material.



Air is supplied to B, then blade cuts the material at the root.

Examples of Combination with TIMING UNIT



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

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter ϕ (mm)	Air Cons. (cm ³ /stroke)	Working Air Pre. (kgf/cm ²)	Stroke (mm)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
ME-3	Soft Plastic	ϕ 1.0	132.0	220	36	116	4~5	3	F10E	12	3	4.0
	Hard Plastic	ϕ 1.0	132.0	220	36	116	4~5	3	F10EK	11	3.5	3.5
ME-5	Soft Plastic	ϕ 1.2	155.0	400	45	230	5~6	3	F1E	12	3	6.0
	Hard Plastic	ϕ 1.2	155.0	400	45	230	5~6	3	F1EK	11	3.5	5.5
ME-10	Soft Plastic	ϕ 2.5	88.2	540	35	90	4~5	3	F3E	13	9	8.0
	Hard Plastic	ϕ 2.5	88.2	540	35	90	4~5	3	F3EK	13	6	9.0
ME-20	Soft Plastic	ϕ 4.5	103.2	810	44	150	5~6	5	F5E	18	6	9.0
	Hard Plastic	ϕ 4.5	103.2	810	44	150	5~6	5	F5EK	18	6	9.0
ME-30	Soft Plastic	ϕ 6	127.2	1490	56	300	5~6	5	F9E	39	8	15.0
	Hard Plastic	ϕ 6	127.2	1490	56	300	5~6	5	F9EK	39	8.5	15.0

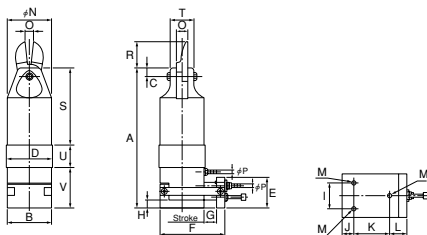
ML

(Slide & Cut type)

This type is moved in parallel with the mounting plate. Sliding part is very robust and has no play horizontally. The blade for MR type and MP type can be used.

When the cutting capacity is not enough in case of using MER type or ME type, please use ML type.

ML type is suitable for gate-cutting the large molded product. In combination with TIMING UNIT (TU-01), it can be moved and cut closer to the molded product. Stroke is 10 mm.



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

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter ϕ (mm)	Air Cons. (cm ³ /stroke)	Pressure (kgf)	Working Air Pre. (kgf/cm ²)	Stroke (mm)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
ML-10	Soft Plastic	ϕ 5.0	128	340	35	136	60	4~5	10	F3	13	6	5.5
	Hard Plastic	ϕ 4.0	128	340	35	136	60	4~5	10	FD3	11	9	5.5
ML-20	Soft Plastic	ϕ 7.0	143	500	44	250	140	5~6	10	F3S	13	4.5	5.5
										FEP4	9	9	5.0
										F5	18	8	9.5
										FD5	14	12	9.5
ML-30	Soft Plastic	ϕ 10.0	184	870	55	634	280	5~6	10	F5S	16	6	9.5
										FEP6	12	12	8.5
										F9P	38	9	17.0
										FD9P	27	17	15.0
ML-30	Hard Plastic	ϕ 6.5	184	870	55	634	280	5~6	10	F9PS	37	11	16.0
										FEP10P	17	17	8.0

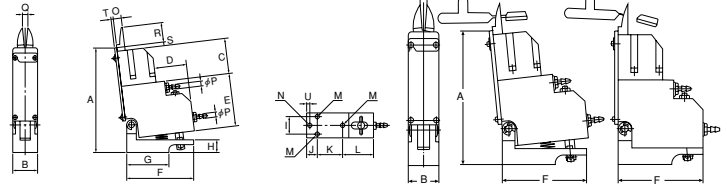
※Soft Plastic means PP,PE.

※Hard Plastic means ABS,Polycarbonates,Acrylic resin,POM,PS

MER

(Tilt & Cut type)

MER type uses Tilt-Off Mechanism to cut close to work. In combination with TIMING UNIT (TU-01), it is tilted to the side of the molded product and cut closer to the molded product.



USE EXAMPLE

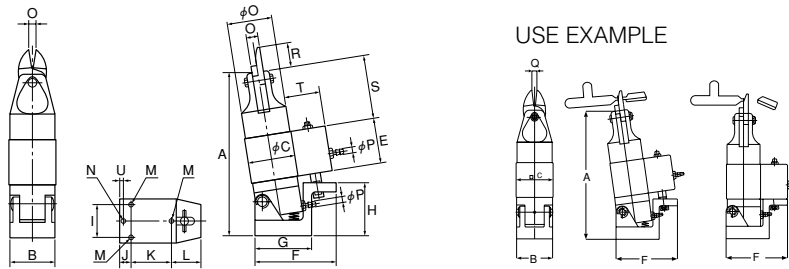
MODEL No	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
MER3	82	20	28	19	41	54	34	10	14	8.5	20.5	25	M3	M3	7	4	3.5~4	13	3	2	2.5
MER5	90	29	28	17	42	62	42	10	22	8.5	28.5	25	M3	M3	7	4	5.5~4	15	4	2	2.5
MER10	116	35	35	21	57	73	51	12	26	9	36	28	M3	M3	9	4	7~8	16	5	2	3
MER20	123	44	42	21	60	84	62	12	26	9	36	28	M4	M4	12	4	9~10	23	8	2	3
MER30	160	56	47	29	71	109	70	16	26	11	50	48	M4	M4	17	4	15~16	50	28	3	4

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter ϕ (mm)	Air Cons. (cm ³ / stroke)	Working Air Pre. (kgf / cm ²)	Stroke (mm)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
MER-3	Soft Plastic	ϕ 1.0	83	170	20	30	4~5	5	F10E F10EK	12 11	3 3.5	4.0 3.5
MER-5	Soft Plastic	ϕ 1.2	90	260	29	40	4~5	5	F1E F1EK	12 11	3 3.5	6.0 5.5
MER-10	Soft Plastic	ϕ 2.5	116	440	35	90	4~5	4	F3E F3EK	13 13	9 4.5	8.0 7.0
MER-20	Soft Plastic	ϕ 4.5	123	680	44	150	5~5	4	F5E F5EK	18 18	6 6	9.0 9.0
MER-30	Soft Plastic	ϕ 6.0	160	1440	56	300	5~6	3.5	F9E F9EK	39 39	8 8.5	15.0 15.0

MSR

(Tilt & Cut type)

MSR type uses Tilt-Off Mechanism to cut close to work. The blade for MR type and MP type can be used for MSR type. In combination with TIMING UNIT (TU-01), it is tilted to the side of the molded product and cut closer to the molded product.



USE EXAMPLE

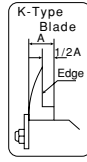
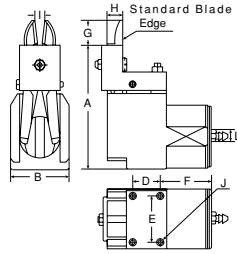
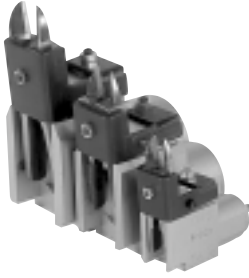
MODEL No	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
MSR10	130	35	36	35	35	63	44	40	26	9	31	23	M3	M3	9	4	5.5	19	52	27	3
MSR20	145	44	45	44	35	71	51	40	26	10	36	25	M4	M4	12	4	9.5	26	67	26.5	3
MSR30	192	55	56	55	40	91	65	47	26	11	38	42	M4	M4	17	4	16	50	101	35	4

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter ϕ (mm)	Air Cons. (cm ³ / stroke)	Working Air Pre. (kgf / cm ²)	Stroke (mm)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
MSR-10	Soft Plastic	ϕ 4.0	130	380	35	136	4~5	8	F3 FD3 F3S FEP4	13 11 13 9	6 9 4.5 9	5.5 5.5 5.5 5.0
MSR-20	Soft Plastic	ϕ 7.0	145	520	44	250	5~6	8	F5 FD5 F5S FEP6	18 14 16 12	8 12 6 12	9.5 9.5 9.5 8.5
MSR-30	Soft Plastic	ϕ 10.0	192	1400	55	634	5~6	5	F9P FD9P F9PS FEP10P	38 27 37 17	9 17 11 17	17.0 15.0 16.0 8.0

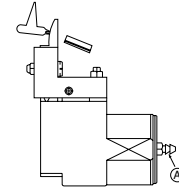
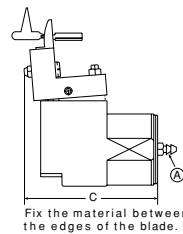
MG

(Slide & Cut type)

It is necessary to use TIMING UNIT.
Compact size and light in weight.



USE EXAMPLE



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	φ4
MG-10	73	35	73	20	27	29	17.5	9.0	7.0	M3	φ4
MG-20	95	46	89	21	36	39	19	12	8.0	M4	φ4

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Air Cons. (cm ³ / stroke)	Working Air Pre. (kgf / cm ²)	Stroke (mm)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm)±0.5	
	Soft Plastic	φ										
MG-3	Soft Plastic	φ	2.0	50	80	22	4~5	4	FG10	14	3.5	4.0
									FG10K	14	3.5	4.0
MG-10	Soft Plastic	φ	4.0	73	230	60	4~5	5	FG3	14	4.5	7.4
									FG3K	14	4.5	7.4
MG-20	Soft Plastic	φ	6.0	95	420	90	5~6	4	FG5	18	6	8.4
									FG5K	18	6	8.4

ASA

(Body-Slide type)

ASA type cuts the plastics after the movable part goes forward the specific distance by means of supplying air to the fixed part.

In case of standard ASA type, the specific distance is 50 mm. (it is returned to the original position when exhausting air.)

In case of mounting this type to the plastic molding machine, the automation of cutting can be made.

ASA type can be divided into the fixed part and movable parts as mentioned in the following.

Upon request, we can supply special type which has other working distance except 50 mm.

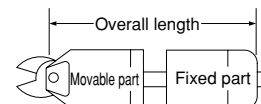
Working air pressure is 5 ~ 6 kgf / cm².



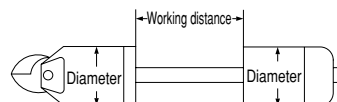
Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter φ (mm)	Air Cons. (cm ³ / stroke)	Working Air Pre. (kgf / cm ²)	Stroke (mm)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm)±0.5			
	Soft Plastic	φ													
ASA20	Soft Plastic	φ	7.0	297	730	45	610	5~6	50	F5	18	8	9.5		
		Hard Plastic								φ	5.0	FD5	14	12	9.5
												F5S	16	16	69.5
												FEP6	12	12	8.5
ASA30	Soft Plastic	φ	10.0	314	920	45	870	5~6	50	FP9	38	9	17.0		
		Hard Plastic								φ	6.5	FD9P	27	17	15.0
												F9PS	37	11	16.0
												FEP10P	17	17	8.0

Type	Overall Length	Movable Part Overall Length	Movable Part Diameter	Air Consumption Rate
	Weight	Fixed Part Overall Length	Fixed Part Diameter	Working Distance
ASA20	297 mm	124 mm	45 mm	610 cm ³ / stroke
	0.73kg	145 mm	45 mm	50mm
ASA30	314 mm	159 mm	56 mm	870 cm ³ / stroke
	0.92 kg	145 mm	45 mm	50 mm

① Before operation



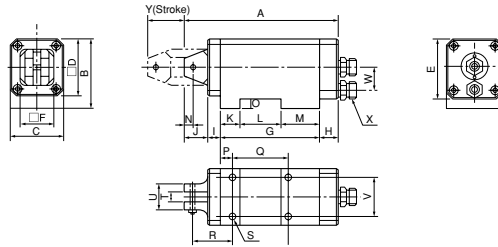
② After operation



CF

(Turtle-Neck Blade type)

Use this type as the end of arm tooling for robot.
Our unique "Turtle-Neck" mechanism will extend out 30 mm, cut and retract.

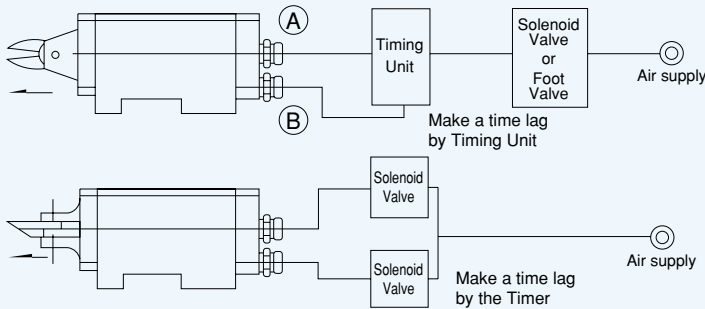


MODEL No	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
CF-5	124	54	44	44	47	28	80	15	10	19	16	33	31	7	8	10	45	32	M6 D12	7	20	30	18	PF 1/4	30
CF-10	146	64	54	54	54	34	100	15	10	21	26	40	34	7	8	16	60	40	M6 D12	9	20	34	28.5		
CF-20	165	70	62	62	62	42	117	15	10	23	26	55	36	9	8	16	75	40	M6 D10	12	26	40	32.5		

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter φ (mm)	Air Cons. (cm ³ /stroke)	Pressure (kgf)	Working Air Pre. (kgf / cm ²)	Stroke (mm)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm)±0.5	
	Soft Plastic	Hard Plastic												
CF-5	φ 2.0		124	570	44	490	40	4~5	30	F1	12	5	4.0	
										F1S	13	3.5	3.5	
CF-10	φ 4.0		146	940	54	830	60	4~5	30	FD1	10	7	3.5	
	φ 2.6									FEP2	7	7	3.0	
											F3	13	6	5.5
CF-20	φ 7.0		165	1300	62	1160	140	5~6	30	FD3	11	9	5.5	
											F3S	13	4.5	5.5
	φ 5.0									FEP4	9	9	5.0	
											F5	18	8	9.5
											FD5	14	12	9.5
											F5S	16	6	9.5
		FEP6	12	12	8.5									

D:Depth

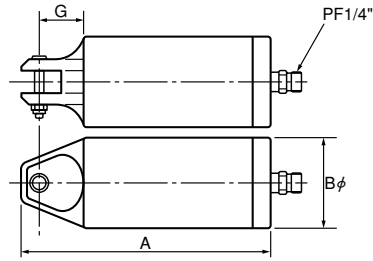
In case of using solenoid valve and foot valve, please use three-way type.
Regarding the timing between ① Movement of 30 mm forward and ② The blade close,
please use the TIMING UNIT (TU-01) or make a time lag by the timer.
Sliding part can make 90° rotation.



MR

(Standard type)

MR type is standard type and can be also used in manual (hand) operation.
 PX-11 is suitable for cutting hard plastics due to the cutting capacity of 11.0.
 PX-11 is manual (hand) operation type but can be used as machine-mounting type.



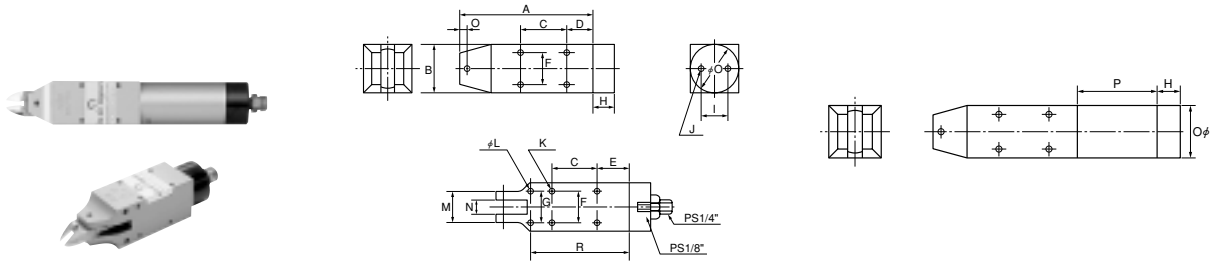
Model	Cutting Capacity		Body length A (mm)	Weight (gm)	Diameter φ (B)	Air Cons. (cm ³ / stroke)	Pressure (kgf)	Working Air Pre. (kgf / cm ²)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm)±0.5
	Soft Plastic	Hard Plastic										
MR3M	Soft Plastic	φ 1	112	60	20	35	27	4~5	F10	12	5.5	3.0
									FD10	10	7	2.5
									F10S	12	4	3.0
									FEP20	7	7	2.5
MR5M	Soft Plastic	φ 2	103	100	30	64	40	4~5	F1	12	5	3.5
									FD1	10	7	3.5
									F1S	13	3.5	3.5
									FEP2	7	7	3.0
MR7M	Soft Plastic	φ 3.0	132	110	30	116	50	4~5	FT7	14	9	3.5
									FD7	11	9	3.5
									FT7S	13	4.5	3.5
									FEP7	7	9	3.5
MR10AM	Soft Plastic	φ 5.0	124	150	36	116	60	5~6	F3	13	6	5.5
	Hard Plastic	φ 4.0							FD3	11	9	5.5
									F3S	13	4.5	5.5
									FEP4	9	9	5.0
MR20M	Soft Plastic	φ 7.0	140	260	45	230	140	5~6	F5	18	8	9.5
	Hard Plastic	φ 5.0							FD5	14	12	9.5
									F5S	16	6	9.5
									FEP6	12	12	8.5
MR30AM	Soft Plastic	φ 10.0	176	460	56	584	280	5~6	F9P	38	9	17.0
	Hard Plastic	φ 6.5							FD9P	27	17	15.0
									F9PS	37	11	16.0
									FEP10P	17	17	8.0
MR30ABM	Soft Plastic	φ 12.0	185	590	56	584	280	5~6	F9P	38	9	16.0
	Hard Plastic	φ 6.5							FD9P	27	17	14.0
									F9PS	37	11	16.0
									FEP10P	17	17	8.0
MR50FM	Soft Plastic	φ 12.0	197	1040	75	1100	420	5~6	F9P	38	9	30.0
	Hard Plastic	φ 6.5							FD9P	27	17	26.0
	Hot Condition Plastic	φ 20.0							F9PS	37	11	28.0
									FEP10P	17	17	15.0
PX11	Hard Plastic	φ 11.0	240	1550	56	584	350	5~6.5	PF11	27	12.0	14

MS/MSP

(Standard Square type / Pressure booster type)

MS type comes with standard model and the model with pressure booster.

Square main body has numerous holes for bolts so that the unit can be easily mounted on any machine.



Model	Cutting Capacity		Body length (mm)	Weight (gm)	Air Cons. (cm ³ / stroke)	Pressure (kgf)	Working Air Pre. (kgf / cm ²)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ±0.5
MS-3	Soft Plastic	φ 1.0	110	100	35	27	4~5	F10	12	5.5	3.0
								FD10	10	7	7.0
								F10S	12	4	3.0
								FEP20	7	7	2.5
MS-5	Soft Plastic	φ 2.0	94	160	64	40	4~5	F1	12	5	3.5
								F1S	13	3.5	3.5
								FD1	10	7	3.5
								FEP2	7	7	3.0
MS-10	Soft Plastic	φ 4.0	113	260	116	60	4~5	F3	13	6	5.5
	Hard Plastic	φ 2.6						FD3	11	9	5.5
								F3S	13	4.5	5.5
								FEP4	9	9	5.0
MS-10A	Soft Plastic	φ 5.0	113	250	116	60	4~6	F5A	22	12	5.0
	Hard Plastic	φ 4.0						FD5A	14	12	5.0
								F5AS	17	6	5.5
								FEP6A	12	12	4.0
MS-20	Soft Plastic	φ 7.0	129	430	230	140	5~6	F5	18	8	9.5
	Hard Plastic	φ 5.0						FD5	14	12	9.5
								F5S	16	6	9.5
								FEP6	12	12	8.5
MS-30	Soft Plastic	φ 10.0	170	810	584	280	5~6	F9P	38	9	17.0
	Hard Plastic	φ 6.5						FD9P	27	17	15.0
								F9PS	37	11	16.0
								FEP10P	17	17	8.0
MSP-30	Soft Plastic	φ 10.0	262	1220	956	450	5~6	F9P	38	9	17.0
	Hard Plastic	φ 6.5						FD9P	27	17	15.0
								F9PS	37	11	16.0
								FEP10P	17	17	8.0

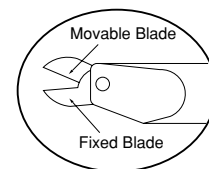
CP

(Scissors Action Blade type)

CP type has the movable blade and the fixed blade. Only movable blade can be worked.

It is possible to use it in manual (hand) operation and machine-mounting operation.

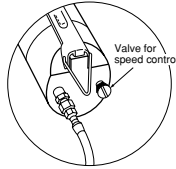
It is easy to position in order to cut the molded product.



Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter φ (mm)	Air Cons. (cm ³ / stroke)	Pressure (kgf)	Working Air Pre. (kgf / cm ²)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ±0.5
CP10M	Soft Plastic	φ 4.0	132	220	36	116	60	4~5	F300	13	6	4.5
	Hard Plastic	φ 2.6							FD300	11	9	4.5
CP20M	Soft Plastic	φ 7.0	155	400	45	230	140	5~6	F500	18	8	6.0
	Hard Plastic	φ 5.0							FD500	14	12	5.5
CP30M	Soft Plastic	φ 9.0	185	630	56	584	280	5~6	F900	38	13	10.0
	Hard Plastic	φ 6.5							FD900	28	13	10.0

SC

(Cutting Speed Adjustable type)



The cutting speed is adjustable.
 If you select this type, the cutting work can be made smoothly.
 In case of operating the blade slowly,
 1. The accurate cutting can be made.
 2. Life of the blade is extended.
 3. The crack on the cut place is decreased in number.
 4. It is the normal speed when the blade is opened.
 SC type can be used in manual (hand) operation and machine-mounting type is also available.

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter ϕ (mm)	Air Cons. (cm ³ / stroke)	Working Air Pre. (kgf / cm ²)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
SC-10	Soft Plastic	ϕ 4.0	133	250	36	120	4~5	F3	13	6	5.5
	Hard Plastic	ϕ 2.6						FD3	11	9	5.5
								F3S	13	4.5	5.5
								FEP4	9	9	5.0
SC-20	Soft Plastic	ϕ 7.0	149	410	45	240	5~6	F5	18	8	5.5
	Hard Plastic	ϕ 5.0						FD5	14	12	9.5
								F5S	16	6	9.5
								FEP6	12	12	8.5
SC-30	Soft Plastic	ϕ 10.0	184	670	56	590	5~6	F9P	38	9	17.0
	Hard Plastic	ϕ 6.5						FD9P	27	17	15.0
								F9PS	37	11	16.0
								FEP10P	17	17	8.0

MSF

(Square & Lightest type)

MSFP

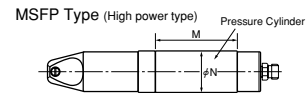
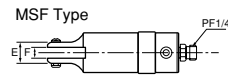
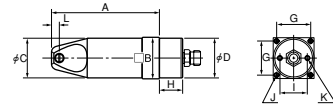
(High power type)

MSF and MSFP type are suitable for the machine-mounting and it is equipped with the machine by the flanges.

In Square Power Cutter Series, the weight of MSF type is lightest.

Please work with three-way solenoid valve.

Blades on the photo are special one, not standard one.
 Special blade is manufactured on request.



MSFP10
MSFP20
MSFP30

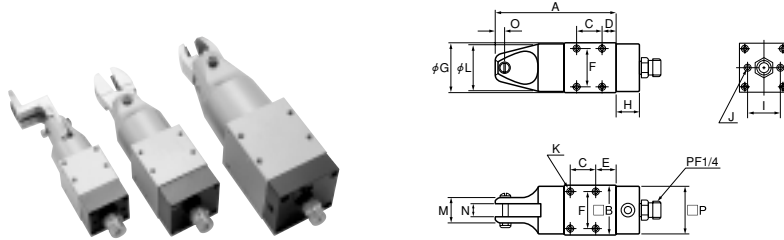
MODEL.No	A	B	C	D	E	F	G	H	I	J	K	L	M	N
MSF10 (MSFP10)	93	36	35	35	18	9	30	20	24	M3	M4	7	71	36
MSF20 (MSFP20)	109	45	44	44	24	12	37	20	30	M4	M5	9	87	45
MSF30 (MSFP30)	150	56	55	55	34	17	46	20	40	M4	M6	15	92	56

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter ϕ (mm)	Air Cons. (cm ³ / stroke)	Pressure (kgf)	Working Air Pre. (kgf / cm ²)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
MSF10	Soft Plastic	ϕ 4.0	113	180	35	116	60	4~5	F3	13	6	5.5
	Hard Plastic	ϕ 2.6							FD3	11	9	5.5
									F3S	13	4.5	5.5
									FEP4	9	9	5.0
MSF20	Soft Plastic	ϕ 7.0	129	310	44	230	140	5~6	F5	18	8	9.5
	Hard Plastic	ϕ 5.0							FD5	14	12	9.5
									F5S	16	6	9.5
									FEP6	12	12	8.5
MSF30	Soft Plastic	ϕ 10.0	170	560	55	584	280	5~6	F9P	38	9	17.0
	Hard Plastic	ϕ 6.5							FD9P	27	17	15.0
									F9PS	37	11	16.0
									FEP10P	17	17	8.0
MSFP10	Soft Plastic	ϕ 4.0	184	280	35	223	75	3~3.5	F3	13	6	5.5
	Hard Plastic	ϕ 2.6							FD3	11	9	5.5
									F3S	13	4.5	5.5
									FEP4	9	9	5.0
MSFP20	Soft Plastic	ϕ 7.0	216	530	44	508	147	3~3.5	F5	18	8	9.5
	Hard Plastic	ϕ 5.0							FD5	14	12	9.5
									F5S	16	6	9.5
									FEP6	12	12	8.5
MSFP30	Soft Plastic	ϕ 12.0	262	880	55	958	450	5~6	F9P	38	9	17.0
	Hard Plastic	ϕ 6.5							FD9P	27	17	15.0
									F9PS	37	11	16.0
									FEP10P	17	17	8.0

MSK

(Square type)

MSK type is suitable for the machine-mounting.
End part of cutter is round and thin therefore it is easy to use it in the narrow space.
Please work with three-way solenoid valve.



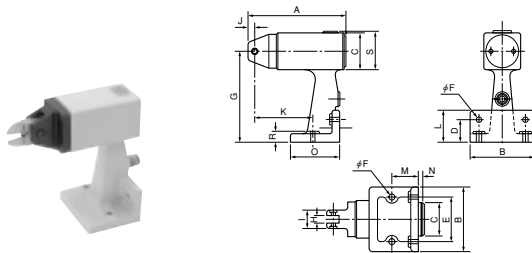
MODEL.No	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
MSK10	87	36	18	10	15	28	35	17	24	M4	M4	33	18	9	7	35
MSK20	102	45	20	15	20	36	44	17	30	M5	M4	42	24	12	9	44
MSK30	141	56	27	18	26	46	55	17	40	M6	M5	52	34	17	15	55

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Diameter ϕ (mm)	Air Cons. (cm ³ / stroke)	Pressure (kgf)	Working Air Pre. (kgf / cm ²)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
	Soft Plastic	Hard Plastic										
MSK10	Soft Plastic	ϕ 4.0	104	190	35	116	60	4~5	F3	13	6	5.5
	Hard Plastic	ϕ 2.6							FD3	11	9	5.5
		F3S							13	4.5	5.5	
		FEP4							9	9	5.0	
MSK20	Soft Plastic	ϕ 7.0	119	340	44	230	140	5~6	F5	18	8	9.5
	Hard Plastic	ϕ 5.0							FD5	14	12	9.5
		F5S							16	6	9.5	
		FEP6							12	12	8.5	
MSK30	Soft Plastic	ϕ 10.0	158	590	55	584	280	5~6	F9P	38	9	17.0
	Hard Plastic	ϕ 6.5							FD9P	27	17	15.0
		F9PS							37	11	16.0	
		FEP10P							17	17	8.0	

SMR

(Stand-Mount type)

By installing this type to your machinery, an automatic and continuous cutting can be achieved.



MODEL.No	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	R	S
SMR-10	103	84	48	30	60	6.3	120	9	17	7	59	42	35	1	65	12	49
SMR-20	121	84	48	30	60	6.3	120	12	23	9	71	42	35	5	65	12	49
SMR-30	158	86	66	30	60	8.3	120	17	30	10	100	45	45	1	80	12	67

Model	Cutting Capacity		Body length (mm)	Weight (gm)	Air Cons. (cm ³ / stroke)	Pressure (kgf)	Working Air Pre. (kgf / cm ²)	Applicable Blade No.	Cutting Effective Blade (mm)	Blade Thickness (mm)	Blade Opening (Max.mm) ± 0.5
	Soft Plastic	Hard Plastic									
SMR-10	Soft Plastic	ϕ 4.0	103	770	116	60	4~5	F3	13	65.5	5.5
	Hard Plastic	ϕ 2.6						FD3	11	9	5.5
		F3S						13	4.5	5.5	
		FEP4						9	9	5.0	
SMR-20	Soft Plastic	ϕ 7.0	121	770	230	140	5~6	F5	18	8	9.5
	Hard Plastic	ϕ 5.0						FD5	14	12	9.5
		F5S						16	6	9.5	
		FEP6						12	12	8.5	
SMR-30	Soft Plastic	ϕ 10.0	158	1620	584	280	5~6	F9P	38	9	17.0
	Hard Plastic	ϕ 6.5						FD9P	27	17	15.0
		F9PS						37	11	16.0	
		FEP10P						17	17	8.0	

Heat Power Cutter PAT.P ㊦61-11432

The blade is heated by a heater and these heat power cutters are most suitable for cutting hard and break-easy plastics, such as acrylic resins, etc.

Model AH10



Model AH12 (Heavy duty type)

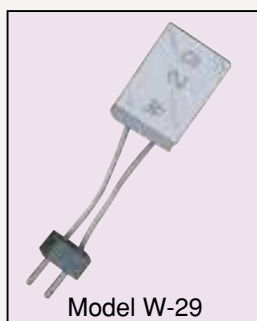


A transformer is needed for the heat air nippers



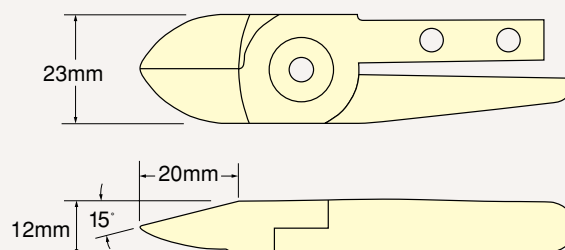
Transformer HTR30N

Spare heater (Easily changeable)



Model W-29

Shape of blade



Special blades are available on your request

Air pressure 5-6kg/cm²

Model No	Overall length	Weight	Dia of body	Air consumption	Blade No	Cutting capacity
AH10	200mm	560g	45mm ϕ	130cm ³ /Stroke	FA50	(hard plastics) 4.5mm ϕ
AH12	200mm	570g	45mm ϕ	130cm ³ /Stroke	FA50	(hard plastics) 5.5mm ϕ

Temperature of the blade 90°C - 150°C
Needing 25 minutes to get max temperature

WARNING

- ※ Before mounting or replacing blade and whenever the tool is issued for repairing, please disconnect the tool from air supply.
- ※ Do not touch the blade or put your finger between opening of the blade.
- ※ Always wear goggles, face shield and other protective clothing.

ARGOFILE JAPAN LIMITED

3-4, Kanda-Mitoshiro-cho,
Chiyoda-ku, Tokyo 101-0053, Japan.

Telephone: 03-3233-1133

Fax : 03-3233-1129

E-mail : info@argofile.co.jp

※ The specification is subject to change without advance notice.



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