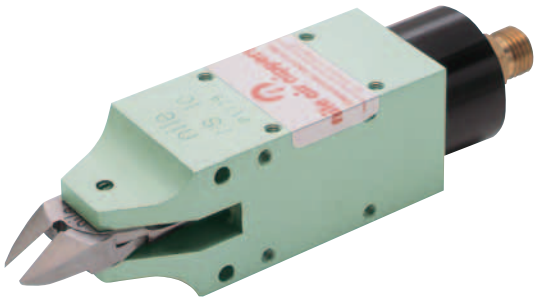
SQUARE AIR CUTTERS

The square body has many holes for setting bolts to be mounted on any machines or stands.

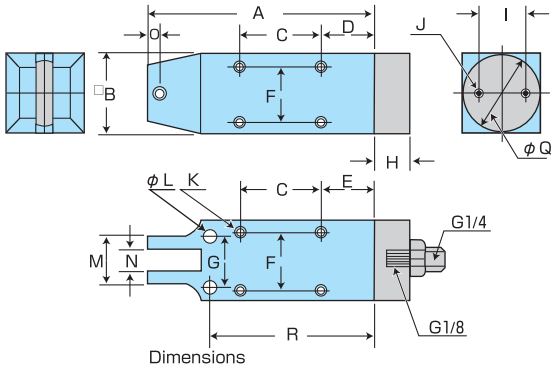
MACHINE-FITTING TYPE

● MS Type (Standard)

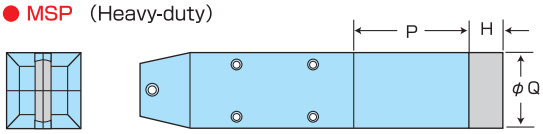


● MSP Type (Heavy-duty)

● MS (Standard)



● MSP (Heavy-duty)



◎ All cutting blades for MR-series can be applicable in common.

Dimensions (mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
MS3	89	20	40	19	24	16	14	21	14	M3	M3	3.3	20	7	7	–	19	71
MS5	74	30	30	14	19	24	20	20	20	M4	M3	4.3	20	7	7	–	29	55
MS10	93	36	30	18	23	28	28	20	24	M4	M4	4.3	20	9	7	–	35	65
MS20	109	45	40	19	24	36	30	20	30	M5	M4	5.3	26	12	9	–	44	81
MS30	150	56	60	20	30	46	40	20	40	M6	M5	5.3	36	17	15	–	55	110
MSP20	109	45	40	19	24	36	30	20	30	M5	M4	5.3	26	12	9	87	44	81
MSP30	150	56	60	20	30	46	40	20	40	M6	M5	5.3	36	17	15	92	55	110

Model (less blade)	Length / Weight	Grip size / Air consumption	Power (approx.) / Air pressure	Blade ※ Carbide tipped	Cutting capacity φ mm: Steel wire	Copper wire	Piano wire	Plastics: Soft	Plastics: Hard
MS3	110 mm / 100 g	φ 20 mm / 31㎤/stroke	265 N / 0.4~0.5 MPa	S20, S20S, EP20, CR20	0.4	0.8	–	–	–
				※ Z20, Z20S	0.4	0.8	0.3	–	–
				F10, F10S, FD10	–	–	–	1.0	–
MS5	94 mm / 160 g	φ 30 mm / 56㎤/stroke	390 N / 0.4~0.5 MPa	S2, S2S, EP2, CR2	0.5	1.0	–	–	–
				※ Z2, Z2S	0.5	1.0	0.3	–	–
				F1, F1S, FD1	–	–	–	2.0	–
MS10	113 mm / 260 g	φ 36 mm / 105㎤/stroke	580 N / 0.4~0.5 MPa	S4, S4S, CR4, EP4	1.0	1.6	–	–	–
				※ Z4, Z4S	1.0	1.6	0.5	–	–
				F3, F3S, FD3	–	–	–	4.0	2.6
MS20	129 mm / 430 g	φ 45 mm / 268㎤/stroke	1,370 N / 0.5~0.6 MPa	S5, S5S, CR6, EP6	2.0	2.6	–	–	–
				※ Z6, Z6S	2.0	2.6	1.0	–	–
				F5, F5S, FD5	–	–	–	7.0	5.0
MS30	170 mm / 810 g	φ 56 mm / 631㎤/stroke	2,740 N / 0.5~0.6 MPa	S7P, P8P, CR8P, EP10P	2.8	3.3	–	–	–
				※ Z8P, ZCR8P	2.8	3.3	1.2	–	–
				F9P, F9PS, FD9P	–	–	–	10.0	6.5
MSP20	216 mm / 650 g	φ 45 mm / 459㎤/stroke	1,960 N / 0.4~0.5 MPa	S5, S5S, CR6, EP6	2.0	2.6	–	–	–
				※ Z6, Z6S	2.0	2.6	1.0	–	–
				F5, F5S, FD5	–	–	–	7.0	5.0
MSP30	262 mm / 1,220 g	φ 56 mm / 1,146㎤/stroke	4,410 N / 0.5~0.6 MPa	S7P, P8P, CR8P, EP10P	4.0	4.8	–	–	–
				※ Z8P, ZCR8P	4.0	4.8	1.2	–	–
				F9P, F9PS, FD9P	–	–	–	13.0	6.5

SQUARE AIR CUTTERS

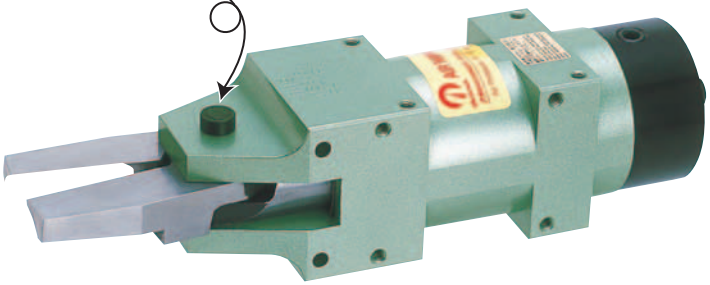
The square main body has numerous holes for setting bolts.

MACHINE-FITTING TYPE

NO TOOL IS NEEDED FOR BLADE REPLACEMENT !

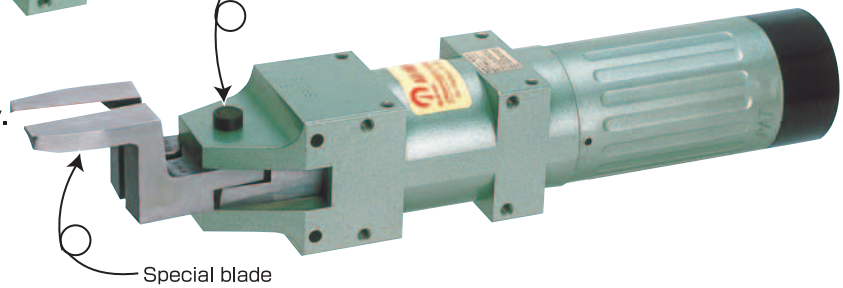
● MS~G Type (Standard)

One touch retaining pin



● MSP~G Type (Heavy-duty)

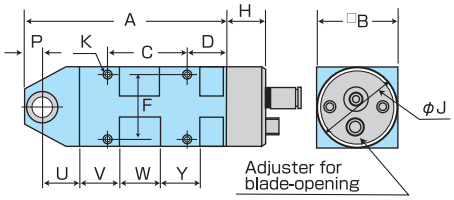
One touch retaining pin

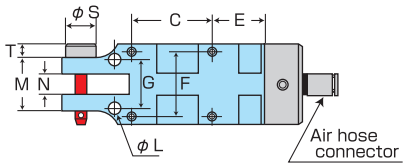


Special blade

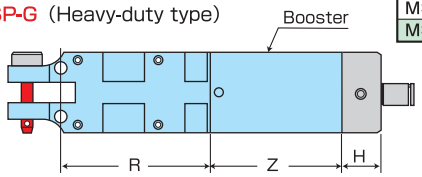
◆ Blade can be replaced easily and quickly.
◆ Blade opening-angle can be adjusted. (except MS3G type)

● MS-G (Standard type)





● MSP-G (Heavy-duty type)



■ Air hose O.D.ϕ4 = MS3G・MS5G
■ Air hose O.D.ϕ6 = MS10G・MS10AG・MS20G・MSP20G・MS30G・MSP30G

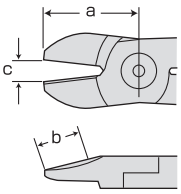
Blades for MS-G and MSP-G are used in common with MR and MP series.
Refer to P.(1&2) for information of standard blades.

Dimensions (mm)

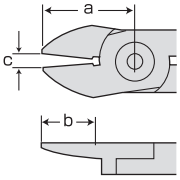
Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	Y	Z
MS3G	89	20	40	19	24	16	14	12	20	M3	3.3	20	7	7	71	11	5	3	25	25	15	–
MS5G	74	30	30	14	19	24	18	15	30	M3	4.3	20	7	7	54	11	5	13	15	15	15	–
MS10G	93	36	30	18	23	28	28	24	36	M4	4.3	23	9	7	65	11	5	16	27	15	15	–
MS10AG	93	36	30	18	23	28	28	24	36	M4	4.3	26	12	7	65	11	5	16	27	15	15	–
MS20G	109	45	40	19	24	36	30	27	45	M4	5.3	26	12	9	81	11	5	15	31	25	15	–
MS30G	150	56	60	20	30	46	40	27	56	M5	5.3	36	17	15	110	12	5	20	41	38	22	–
MSP20G	109	45	40	19	24	36	30	27	45	M4	5.3	26	12	9	81	11	5	15	31	25	15	87
MSP30G	150	56	60	20	30	46	40	27	56	M5	5.3	36	17	15	110	12	5	20	41	38	22	92

Model (less blade)	Weight: Air consumption	Power (approx.): Air pressure	Blade	Cutting capacity ϕmm: Steel wire	Copper wire	Plastics: Soft	Plastics: Hard
MS3G	75 g	265 N	F10, F10S	–	–	1.0	–
	31㎤/stroke	0.4~0.5MPa	S20, S20S	0.4	0.8	–	–
MS5G	141 g	390 N	F1, F1S	–	–	2.0	–
	56㎤/stroke	0.4~0.5MPa	S2, S2S	0.5	1.0	–	–
MS10G	254 g	580 N	F3, F3S	–	–	4.0	2.6
	105㎤/stroke	0.4~0.5MPa	S4, S4S	1.0	1.6	–	–
MS10AG	248 g	580 N	F5A, F5AS	–	–	4.0	2.6
	122㎤/stroke	0.4~0.6MPa	S5A, S5AS	1.2	1.8	–	–
MS20G	425 g	1,370 N	F5, F5S	–	–	7.0	5.0
	268㎤/stroke	0.5~0.6MPa	S5, S5S	2.0	2.6	–	–
MS30G	788 g	2,740 N	F9P, F9PS	–	–	10.0	6.5
	631㎤/stroke	0.5~0.6MPa	S7P, CR8P	2.8	3.3	–	–
MSP20G	648 g	1,960 N	F5, F5S	–	–	7.0	5.0
	459㎤/stroke	0.4~0.5MPa	S5, S5S	2.0	2.6	–	–
MSP30G	1,115 g	4,410 N	F9P, F9PS	–	–	13.0	6.5
	1,146㎤/stroke	0.5~0.6MPa	S7P, CR8P	4.0	4.8	–	–

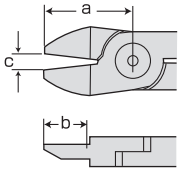
● F, S Type



● F-S, S-S Type



● CR Type



(mm)

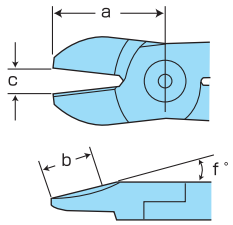
Blade	a	b	c
F10	24	12	2.5
F10S	24	12	2.5
F1	24	12	3.0
F1S	24	12	3.0
F3	27	12	5.0
F3S	27	13	5.0
F5A	35	15	5.5
F5AS	35	16	5.5
F5	35	15	9~10
F5S	35	16	9~10
F9P	66	38	16
F9PS	66	37	16
S20	24	12	2.5
S20S	24	12	2.5
S2	24	12	3.0
S2S	24	12	3.0
S4	27	14	5.0
S4S	27	13	4.0
S5A	35	22	5.0
S5AS	35	17	5.5
S5	35	17	7~8
S5S	35	17	7~8
S7P	43	20	7~8
CR8P	43	22	7~8

"NILE" BRAND AIR TOOLS !

① Section of blade
A: Single blade
B: Standard
C: Full-flush round type
D: Full-flush flat type

STANDARD BLADES FOR AIR CUTTERS
(SHAPES & DIMENSIONS of BLADES)

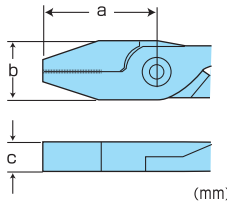
S Type : Standard Blades



(mm)

Blade	a	b	c	f °	①
S20	24	12	2.5	25	A
S2	24	12	3.0	25	A
S4	27	14	5.0	25	A
S5	35	17	7~8	30	A
S250	43	20	10.0	15	A
S7P	43	20	7~8	30	A
S7P1	43	20	7.0	30	A
S120	45	22	9~10	35	B

Y Type : Pincers

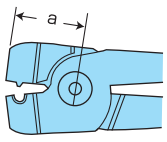


(mm)

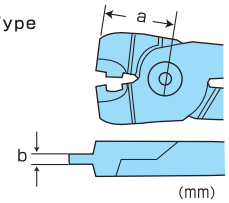
Blade	a	b	c
Y6	47	23	12
Y8P	70	37	17
Y120	60	50	25

A・AR Type : Crimping

A Type



AR Type

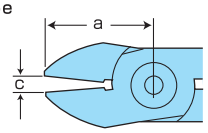


(mm)

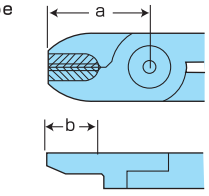
Blade	a	b
A8P-1.25	30	5.8
A8P-2.0	30	5.8
A8P-5.5	32	5.8
AR8P-1.25	31.5	6.5
AR8P-2.0	32.5	6.5
AR8P-5.5	34.5	6.5

S~S Type : Flat surface
Z~S Type : Carbide tipped for hard wire

S~S Type



Z~S Type

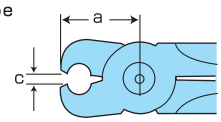


(mm)

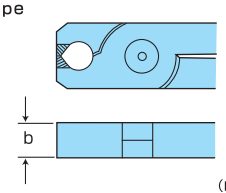
Blade	a	b	c	①
S20S	24	12	2.5	A
S2S	24	12	3.0	A
S4S	27	13	5.0	A
S5S	35	17	7~8	A
S250S	43	23	10.0	A
S7PS	43	20	7~8	A
S7P1S	43	22	7.0	A
S120S	55	30	10~11	B
Z20S	24	11	2.5	A
Z2S	24	11	3.0	A
Z4S	27	11	5.0	A
Z6S	34	16	6~7	B
Z8PS	40	17	6~7	B
Z120S	40	17	7.0	B

EP Type : End cutting edge
ZEP Type : Carbide tipped for hard wire

EP Type



ZEP Type

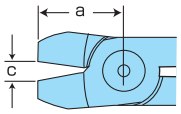


(mm)

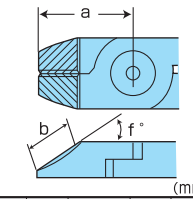
Blade	a	b	c	①
EP20, ZEP20	20	7	2.0	B
EP2, ZEP2	20	7	2.5	B
EP4, ZEP4	26	9	5.0	B
EP6, ZEP6	28	12	5.5~6.5	B
EP10P, ZEP10P	34	17	5.5~6.5	B
EP10P1, ZEP10P1	34	17	5.5~6.5	B
EP120, ZEP120	40	25	8~9	B

P Type : Heavy-duty
Z Type : Carbide tipped for hard wire

P Type



Z Type

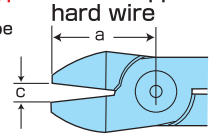


(mm)

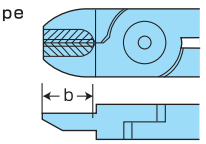
Blade	a	b	c	f °	①
P6	29	11	6.0	35	B
P8P	37	12	6~7	25	B
P8P1	37	12	5.0	25	B
P120	40	16	8~9	35	B
Z20	24	11	2.5	25	A
Z2	24	11	3.0	25	A
Z4	27	10	5.0	25	A
Z6	30	15	6.0	35	B
Z8P	38	20	6~7	40	B
Z120	40	17	7~8	35	B

C R Type : Clipper edge
ZCR Type :Carbide tipped for hard wire

CR Type



ZCR Type

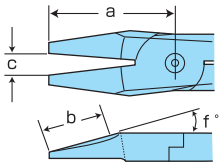


(mm)

Blade	a	b	c	①
CR20	24	12	2.5	A
CR2	24	12	3.0	A
CR4	27	11.5	4.5	A
CR6	35	17	7~8	A
CR250	43	22	11.0	A
CR8P	43	22	7~8	A
CR8P1	43	22	7~8	A
CR120	61	36	11.5~13	B
ZCR20	24	10	2.5	A
ZCR2	24	10	3.0	A
ZCR4	27	10	5.0	A
ZCR6	35	16	7~8	B
ZCR8P	38	16	6~7	B
ZCR8P1	38	16	6.0	B
ZCR120	40	16	7~8	B

F Type : Plastic cutting

F Type

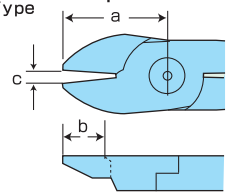


(mm)

Blade	a	b	c	f°	①
F10	24	12	2.5	15	C
F1	24	12	3.0	15	C
F3	27	12	5.0	25	C
F5	35	15	9~10	15	C
F250	43	17	13.0	15	C
F9P	66	38	16.0	16	C
F9P1	66	38	10.5	15	C
F120	53	35	12~13	30	C

F~S Type : Flat surface for plastic

F~S Type

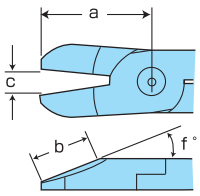


(mm)

Blade	a	b	c	①
F10S	24	12	2.5	D
F1S	24	12	3.0	D
F3S	27	13	5.0	D
F5S	35	16	9~10	D
F250S	43	23	13.0	D
F9PS	66	37	16.0	D
F9P1S	65	39	9.0	D
F3LS	50	30	8.0	D
F5LS	65	37	15.0	D

FD Type : Level cutting for plastic

FD Type



(mm)

Blade	a	b	c	f°	①
FD10	24	10	2.5	40	C
FD1	24	10	3.0	40	C
FD3	27	10	4.5~5.0	40	C
FD5	35	14	9~10	40	C
FD250	43	15	13.0	40	C
FD9P	59	27	14~15	30	C
FD9P1	59	27	9.0	30	C

Cutting capacity List

For copper wire

Diameter φ mm	Model	Blade
0.8	MR3	S20
1.0	MR5	S2
1.6	MR10	S4
2.6	MR20	S5
2.6	MP25A	S5
3.3	MR30A	S7P
4.0	MP250	S7P1
4.8	MP35A	S7P
5.5	MR50AK	P120
7.0	MP55AK	P120

For steel wire

Diameter φ mm	Model	Blade
1.0	MR10	S4
2.0	MR20	P6
2.0	MP25A	P6
2.8	MR30A	P8P
3.2	MP250	P8P1
4.0	MP35A	P8P
4.5	MR50AK	P120
6.0	MP55AK	P120

For soft plastics

Diameter φ mm	Model	Blade
1.0	MR3	F10
2.0	MR5	F1
4.0	MR10	F3
7.0	MR20	F5
8.0	MP25	F250
10.0	MR30A	F9P
13.0	MP35A	F9P
12.0	MR50FK	F9PF

For piano wire

Diameter φ mm	Model	Blade
0.3	MR5	Z2
0.5	MR10	Z4
1.0	MR20	Z6
1.2	MR30A	Z8P
1.6	MR50AK	Z120
2.0	MP55AK	Z120

For stainless wire

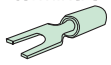
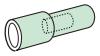
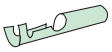
Diameter φ mm	Model	Blade
1.6	MR20	P6
1.6	MP25A	P6
2.0	MR30A	P8P
2.3	MP250	P8P1
2.8	MP35A	P8P
3.5	MR50AK	P120
4.3	MP55AK	P120

For hard plastics

Diameter φ mm	Model	Blade
1.0	MR5	F1
2.6	MR10	F3
5.0	MR20	F5
6.5	MR30A	F9P

※ Bakelite,polyacetal acrylic resin etc.

Crimping capacity List

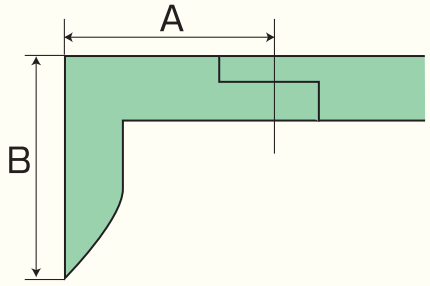
Shape of terminals	Size (sq)	Model & Blade
Ring terminals 	1.25	MR30A/A8P-1.25
	2.0	MR30A/A8P-2.0
	5.5	MP35A/A8P-5.5
	8.0	MP55AK/A120-8.0
Insulated terminals 	1.25	MP35A/AZ8P-1.25
	2.0	MP35A/AZ8P-2.0
Insulated connectors 	1.25	MR30A/AR8P-1.25
	2.0	MR30A/AR8P-2.0
	5.5	MP35A/AR8P-5.5
	8.0	MP55AK/AR120-8.0
Faston terminals 	1.25	MP35A/AC8WP-1.25
	2.0	MP35A/AC8WP-2.0

SPECIAL BLADES

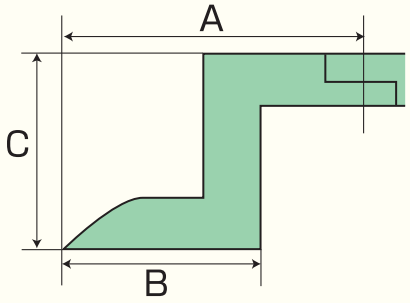
The dimensions (A,B,C,D&R) are required for designing and quoting special blades such as below illustrated.

B:length of edge R:radius D:angle

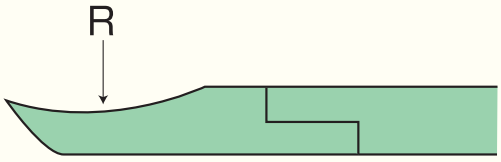
1 "L" shape blade



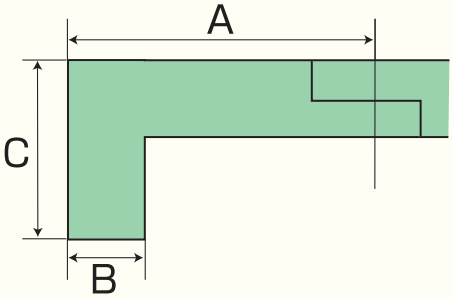
2 Crank shape blade



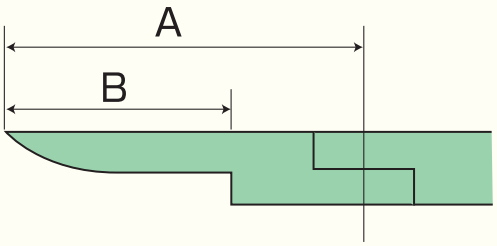
3 Radius cutting blade



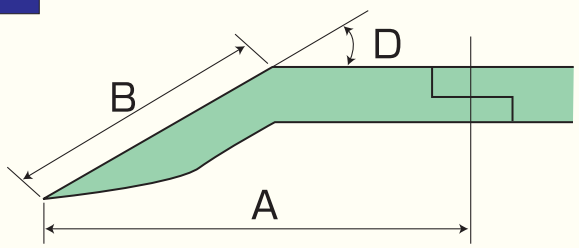
4 "L" shape end cutting blade



5 Long nose blade



※

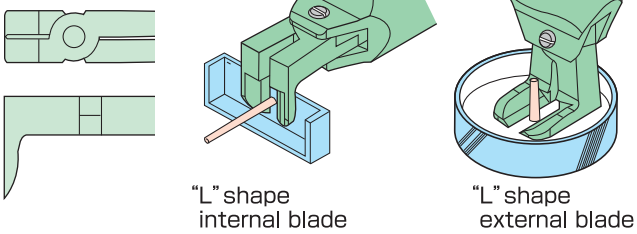


SPECIAL BLADES

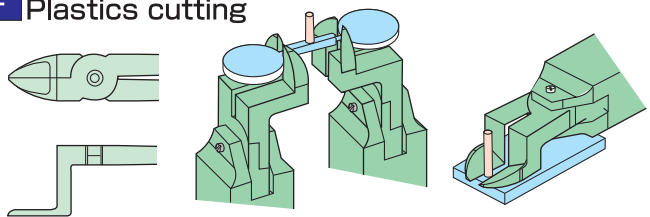
Some examples of custom-made blades
(Designed to meet your particular application.)

Even a piece of any type of special blade can be designed and manufactured to meet your particular application.
Samples of actual work pieces are required on inquiry for designing and quoting.

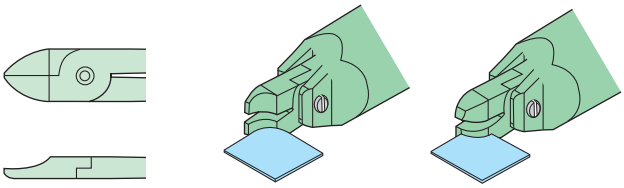
1 Plastics cutting



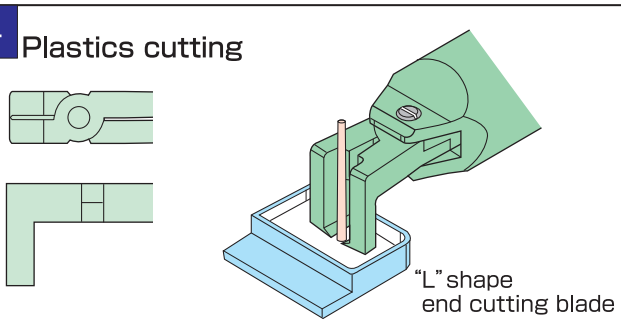
2 Plastics cutting



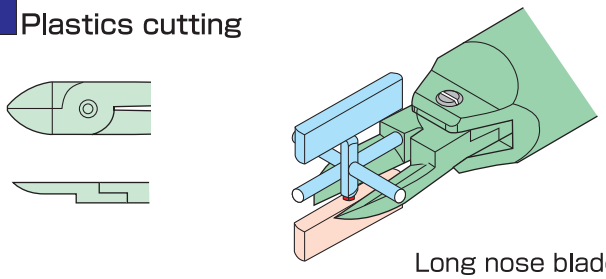
3 Radius cutting of plastics



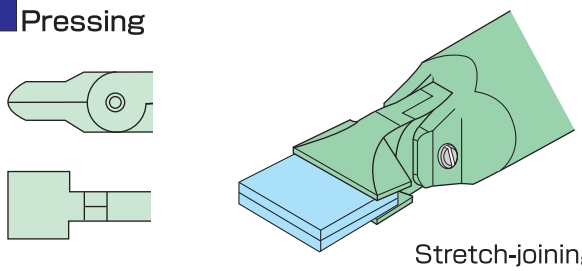
4 Plastics cutting



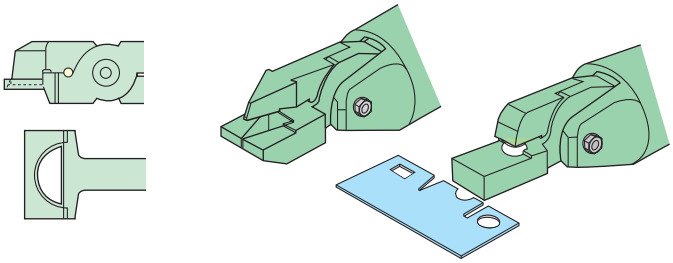
5 Plastics cutting



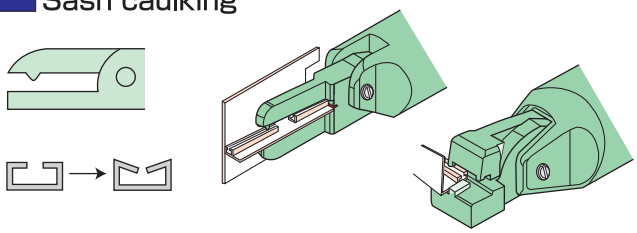
6 Pressing



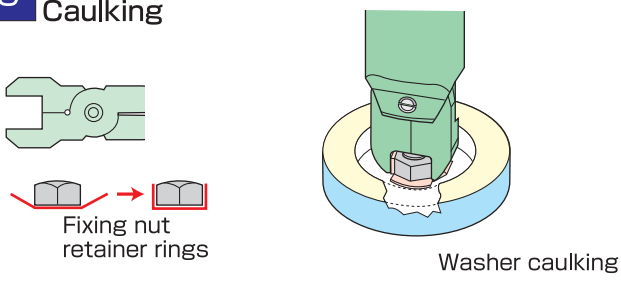
7 Punching various holes



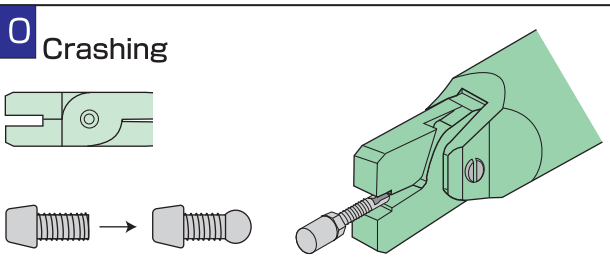
8 Sash caulking



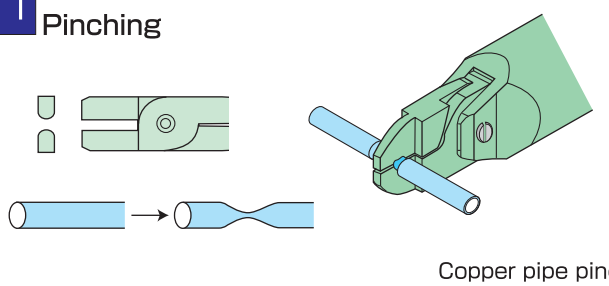
9 Caulking



10 Crashing



11 Pinching



12 Bending