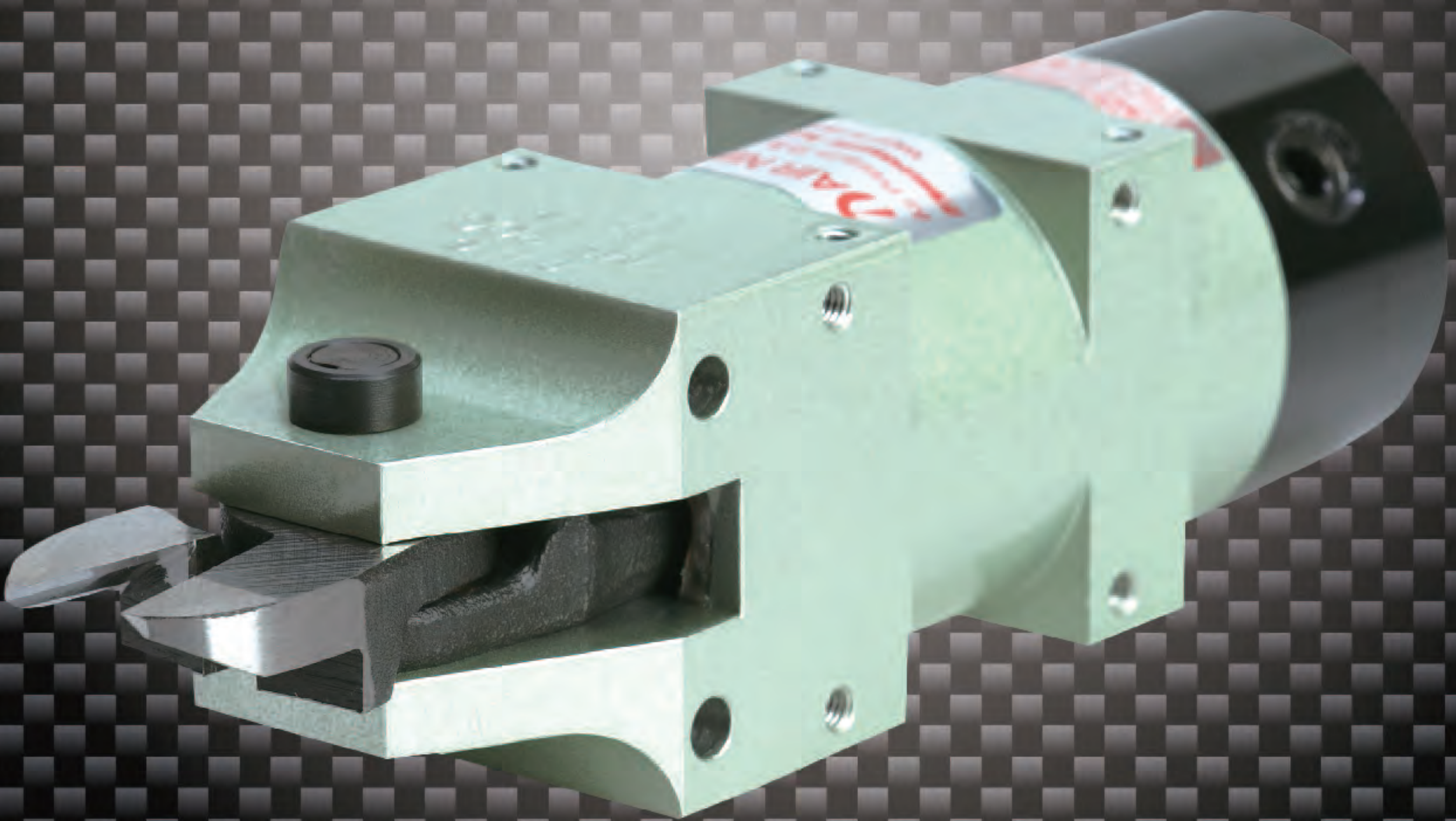




nile air tools

SQUARE AIR NIPPERS



SQUARE AIR NIPPERS

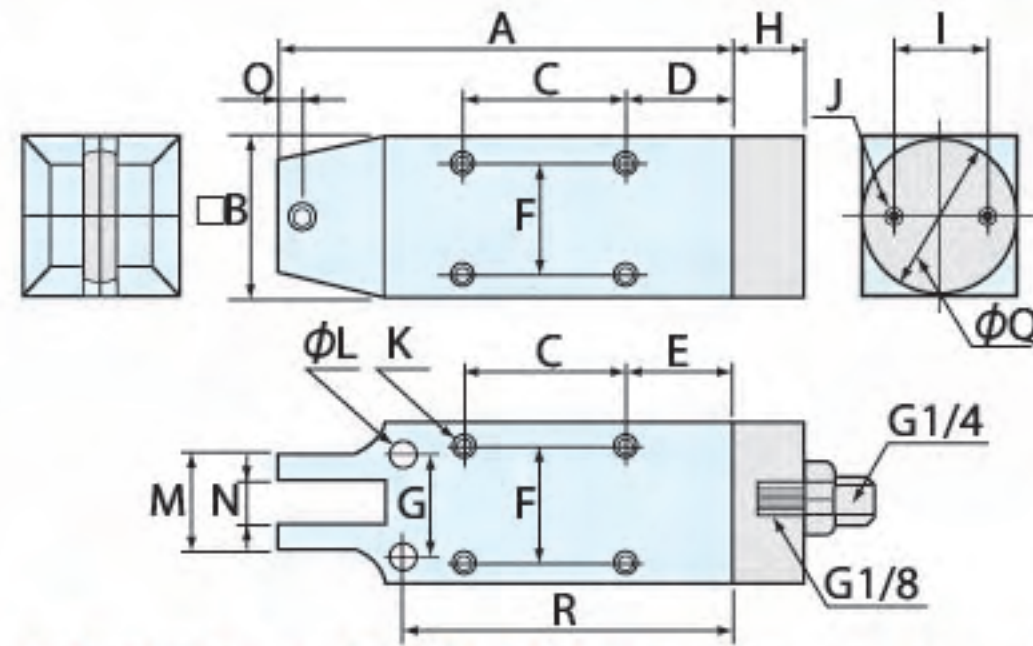
The square body has many holes for setting bolts to be mounted on any machines or stands.

MACHINE-FITTING TYPE

MS Type
Standard

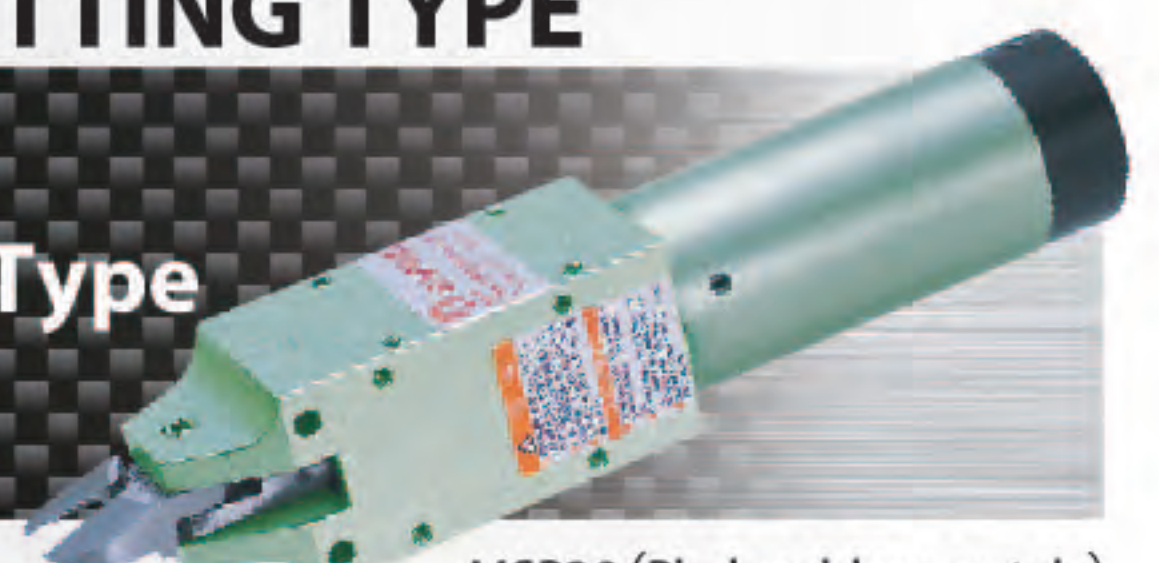


MS10 (Blade sold separately)

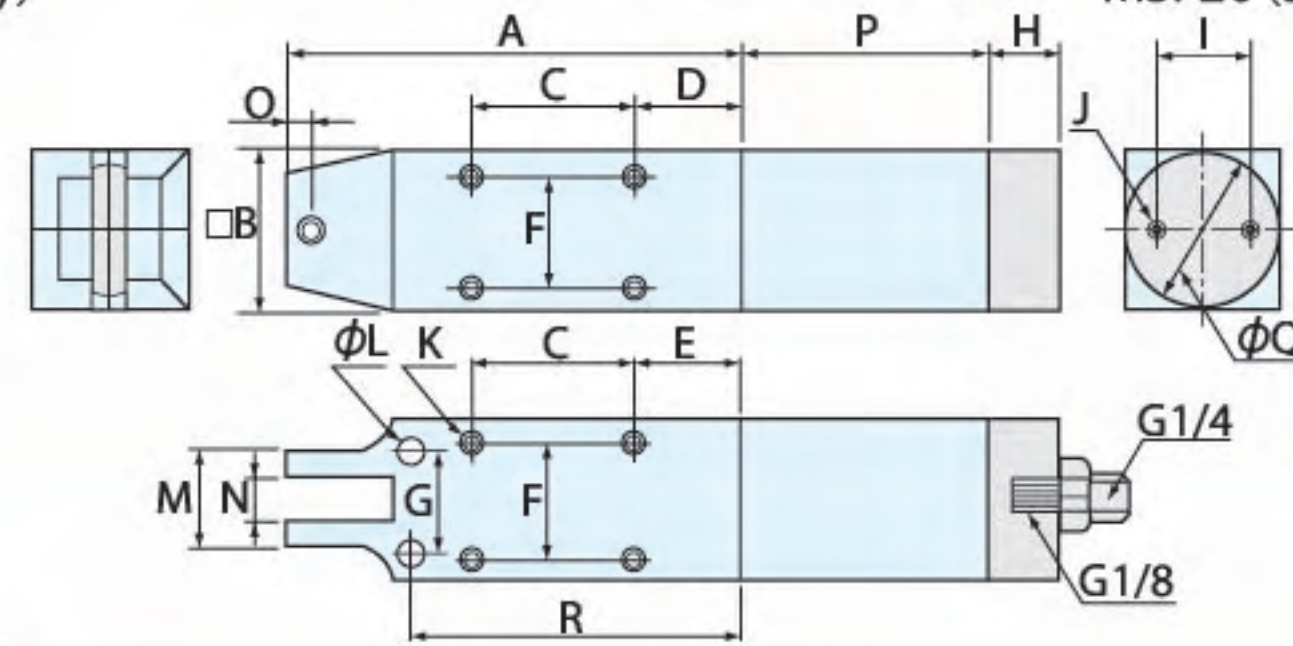


MACHINE-FITTING TYPE

MSP Type
Heavy-duty



MSP20 (Blade sold separately)



MS type specification ※ Nipple is not attached to the main unit.

| Model (less blade) | Weight (g) | Air consumption (cm ³ /stroke) | Air pressure (MPa) | Body Internal thread | Dimensions (mm) | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|--|-----------------------|-------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|------|-----|-----|
| | | | | | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
| MS3 | 100 | 31 | 0.4~0.5 | G1/8 | 89 | 20 | 40 | 19 | 24 | 16 | 14 | 21 | 14 | M3 | M3 | 3.3 | 20 | 7 | 7 | - | 19 | 71 |
| MS5 | 160 | 56 | 0.4~0.5 | G1/8 | 74 | 30 | 30 | 14 | 19 | 24 | 20 | 20 | 20 | M4 | M3 | 4.3 | 20 | 7 | 7 | - | 29 | 55 |
| MS10 | 260 | 105 | 0.4~0.5 | G1/8 | 93 | 36 | 30 | 18 | 23 | 28 | 28 | 20 | 24 | M4 | M4 | 4.3 | 20 | 9 | 7 | - | 35 | 65 |
| MS20 | 430 | 268 | 0.5~0.6 | G1/8 | 109 | 45 | 40 | 19 | 24 | 36 | 30 | 20 | 30 | M5 | M4 | 5.3 | 26 | 12 | 9 | - | 44 | 81 |
| MS30 | 810 | 631 | 0.5~0.6 | G1/8 | 150 | 56 | 60 | 20 | 30 | 46 | 40 | 20 | 40 | M6 | M5 | 5.3 | 36 | 17 | 15 | - | 55 | 110 |
| MS50 | 1,620 | 1,285 | 0.5~0.6 | G1/8 | 200 | 75 | 80 | 40 | 50 | 62 | - | 24 | - | M8 | - | 43 | 25 | 15 | - | 74.5 | - | |
| MS50F | 1,680 | 1,212 | 0.5~0.6 | G1/8 | 150 | 75 | 65 | 20 | 30 | 62 | - | 40 | 60 | M6 | M8 | - | 31 | 17 | 14 | - | □74 | - |

MSP type specification ※ Nipple is not attached to the main unit.

| Model (less blade) | Weight (g) | Air consumption (cm ³ /stroke) | Air pressure (MPa) | Body Internal thread | Dimensions (mm) | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|--|-----------------------|-------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|------|-----|-----|
| | | | | | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
| MSP3 | 130 | 48 | 0.3~0.4 | G1/8 | 89 | 20 | 40 | 19 | 24 | 16 | 14 | 21 | 14 | M3 | M3 | 3.3 | 20 | 7 | 7 | 61 | 119 | 71 |
| MSP5 | 220 | 94 | 0.3~0.4 | G1/8 | 74 | 30 | 30 | 14 | 19 | 24 | 20 | 20 | 20 | M4 | M3 | 4.3 | 20 | 7 | 7 | 50 | 29 | 55 |
| MSP10 | 360 | 174 | 0.3~0.4 | G1/8 | 93 | 36 | 30 | 18 | 23 | 28 | 28 | 20 | 24 | M4 | M4 | 4.3 | 20 | 9 | 7 | 71 | 35 | 65 |
| MSP20 | 650 | 459 | 0.4~0.5 | G1/8 | 109 | 45 | 40 | 19 | 24 | 36 | 30 | 20 | 30 | M5 | M4 | 5.3 | 26 | 12 | 9 | 87 | 44 | 81 |
| MSP30 | 1,220 | 1,146 | 0.5~0.6 | G1/8 | 150 | 56 | 60 | 20 | 30 | 46 | 40 | 20 | 40 | M6 | M5 | 5.3 | 36 | 17 | 15 | 92 | 55 | 110 |
| MSP50 | 1,440 | 2,569 | 0.5~0.6 | G1/8 | 200 | 75 | 80 | 40 | 50 | 62 | - | 24 | - | M8 | - | 43 | 25 | 15 | 133 | 74.5 | - | |

○MSP3, MSP5 and MSP10 should be used at low pressure (0.3~0.4 Mpa). Use at 0.4Mpa or higher may damage the blade.

Shapes & Dimensions of Standard Blades pp.5-10

Special Blades (Custom-made blades) pp.11-12

★ Blade sold separately

MS type Blade cutting capacity

| Model | Blade (*) Carbide tipped | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic | |
|-------|-----------------------------------|----------------|---------------|-------------------|---------------|----------|---------|------|
| | | | | | | | Soft | Hard |
| MS3 | S20, S20S, CR20, EP20, SD20 | 0.8 | 0.4 | - | - | - | - | - |
| | Z20*, Z20S, ZCR20, ZEP20 | 0.8 | 0.4 | 0.2 | 0.2 | - | - | - |
| | F10, F10S, FD10, FEP20 | - | - | - | - | - | 1.0 | - |
| MS5 | S2, S2S, CR2, EP2, SD2 | 1.0 | 0.5 | - | - | - | - | - |
| | Z2*, Z2S, ZCR2, ZEP2 | 1.0 | 0.5 | 0.3 | 0.3 | - | - | - |
| | F1, F1S, FD1, FEP2 | - | - | - | - | - | 2.0 | - |
| MS10 | S4, S4S, CR4, EP4, SD4 | 1.6 | 1.0 | - | - | - | - | - |
| | Z4*, Z4S, ZCR4, ZEP4 | 1.6 | 1.0 | 0.5 | 0.5 | - | - | - |
| | F3, F3S, FD3, F3LS, FEP4, FEP4L | - | - | - | - | - | 4.0 | 2.6 |
| | Y4 | - | - | - | - | - | - | - |
| MS20 | S5, S5S, P6, CR6, EP6, SD5 | 2.6 | 2.0 | - | - | - | - | - |
| | Z6*, Z6S, ZCR6, ZEP6 | 2.6 | 2.0 | 1.0 | 1.0 | - | - | - |
| | F5, F5S, FD5, F5LS, FEP6, FEP6L | - | - | - | - | - | 7.0 | 5.0 |
| | Y6, K6 | - | - | - | - | - | - | - |
| MS30 | S7P, S7PS, P8P, CR8P, EP10P, P8PS | 3.3 | 2.8 | 2.0 | - | - | - | - |
| | Z8P*, Z8PS, ZCR8P, ZEP10P | 3.3 | 2.8 | 2.0 | 1.2 | - | - | - |
| | F9P, F9PS, FD9P | - | - | - | - | - | 10.0 | 6.5 |
| | FEP10P | - | - | - | - | - | 8.0 | 6.5 |
| | Y8P, K8P | - | - | - | - | - | - | - |
| | SH8P | - | - | - | - | - | - | - |
| | A8P-1.25, A8P-2.0 | - | - | - | - | 1.25/2.0 | - | - |
| | AR8P-1.25, AR8P-2.0 | - | - | - | - | 1.25/2.0 | - | - |
| MS50 | S120, S120S, P120, CR120, EP120 | 5.5 | 4.5 | 3.5 | - | - | - | - |
| | Z120*, Z120S, ZCR120, ZEP120 | 5.5 | 4.5 | 3.5 | 1.6 | - | - | - |
| | Y120 | - | - | - | - | - | - | - |
| MS50F | F9PF, FD9PF | - | - | - | - | - | 12.0 | 6.5 |

MSP type Blade cutting capacity

| Model | Blade (*) Carbide tipped | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic | |
|-------|---|----------------|---------------|-------------------|---------------|----------|------------|------|
| | | | | | | | Soft | Hard |
| MSP3 | S20, S20S, CR20, EP20, SD20 | 0.8 | 0.4 | - | - | - | - | - |
| | Z20*, Z20S, ZCR20, ZEP20 | 0.8 | 0.4 | 0.2 | 0.2 | - | - | - |
| | F10, F10S, FD10, FEP20 | - | - | - | - | - | 1.0 | - |
| MSP5 | S2, S2S, CR2, EP2, SD2 | 1.0 | 0.5 | - | - | - | - | - |
| | Z2*, Z2S, ZCR2, ZEP2 | 1.0 | 0.5 | 0.3 | 0.3 | - | - | - |
| | F1, F1S, FD1, FEP2 | - | - | - | - | - | 2.0 | - |
| MSP10 | S4, S4S, CR4, EP4, SD4 | 1.6 | 1.0 | - | - | - | - | - |
| | Z4*, Z4S, ZCR4, ZEP4 | 1.6 | 1.0 | 0.5 | 0.5 | - | - | - |
| | F3, F3S, FD3, F3LS, FEP4, FEP4L | - | - | - | - | - | 4.0 | 2.6 |
| | Y4 | - | - | - | - | - | - | - |
| MSP20 | S5, S5S, P6, CR6, EP6, SD5 | 2.6 | 2.0 | - | - | - | - | - |
| | Z6*, Z6S, ZCR6, ZEP6 | 2.6 | 2.0 | 1.0 | 1.0 | - | - | - |
| | F5, F5S, FD5, F5LS, FEP6, FEP6L | - | - | - | - | - | 7.0 | 5.0 |
| | Y6, K6 | - | - | - | - | - | - | - |
| MSP30 | S7P, S7PS, P8P, CR8P, EP10P, P8PS | 4.8 | 4.0 | 2.8 | - | - | - | - |
| | Z8P*, Z8PS, ZCR8P, ZEP10P | 4.8 | 4.0 | 2.8 | 1.2 | - | - | - |
| | F9P, F9PS, FD9P | - | - | - | - | - | 13.0 | 6.5 |
| | FEP10P | - | - | - | - | - | 8.0 | 6.5 |
| | Y8P, K8P | - | - | - | - | - | - | - |
| | SH8P | - | - | - | - | - | - | - |
| | A8P-1.25/2.0/5.5, A8WP-1.25-2.0/2.0-5.5 | - | - | - | - | - | 1.25/20/55 | - |
| | AR8P-1.25/2.0/5.5, AR8WP-1.25-2.0/2.0-5.5 | - | - | - | - | - | 1.25/20/55 | - |
| MSP50 | S120, S120S, P120, CR120, EP120 | 7.0 | 6.0 | 4.3 | - | - | - | - |
| | Z120*, Z120S, ZCR120, ZEP120 | 7.0 | 6.0 | 4.3 | 2.0 | - | - | - |
| | F120 | - | - | - | - | - | 11.0 | 8.0 |
| | Y120 | - | - | - | - | - | - | - |

SQUARE AIR NIPPERS

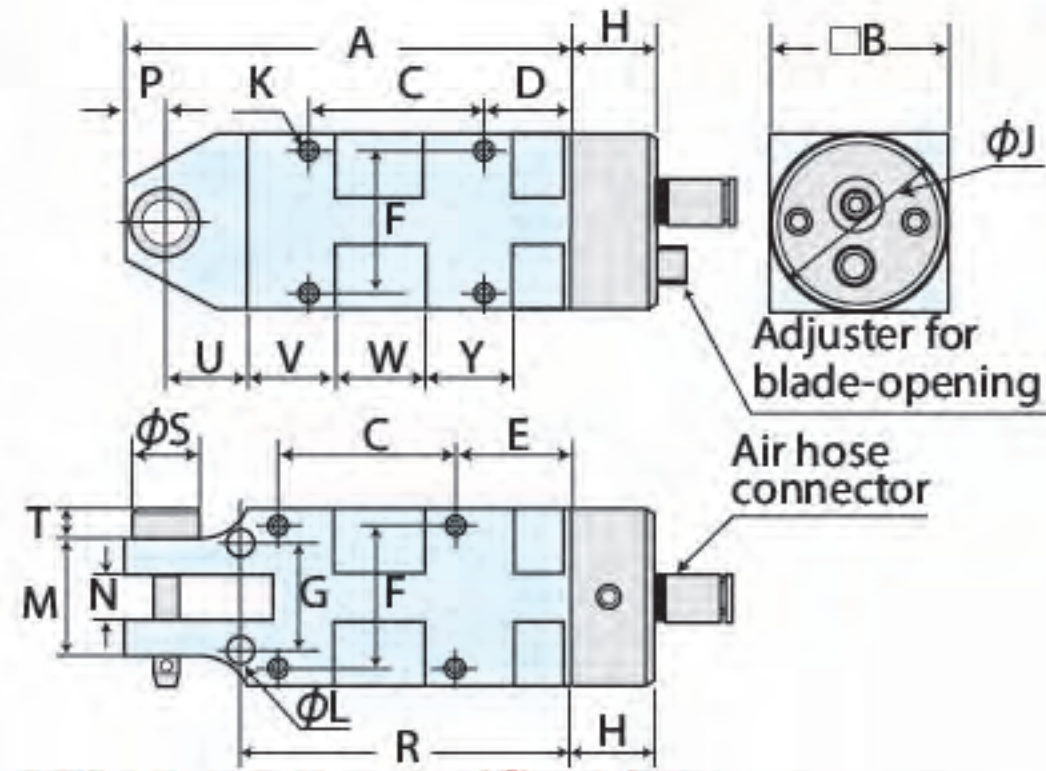
The square main body has numerous holes for setting bolts.
No tool is needed for blade replacement.

MACHINE-FITTING TYPE

MS-G Type Standard



MS30G
(Blade sold separately)



MS-G type specification

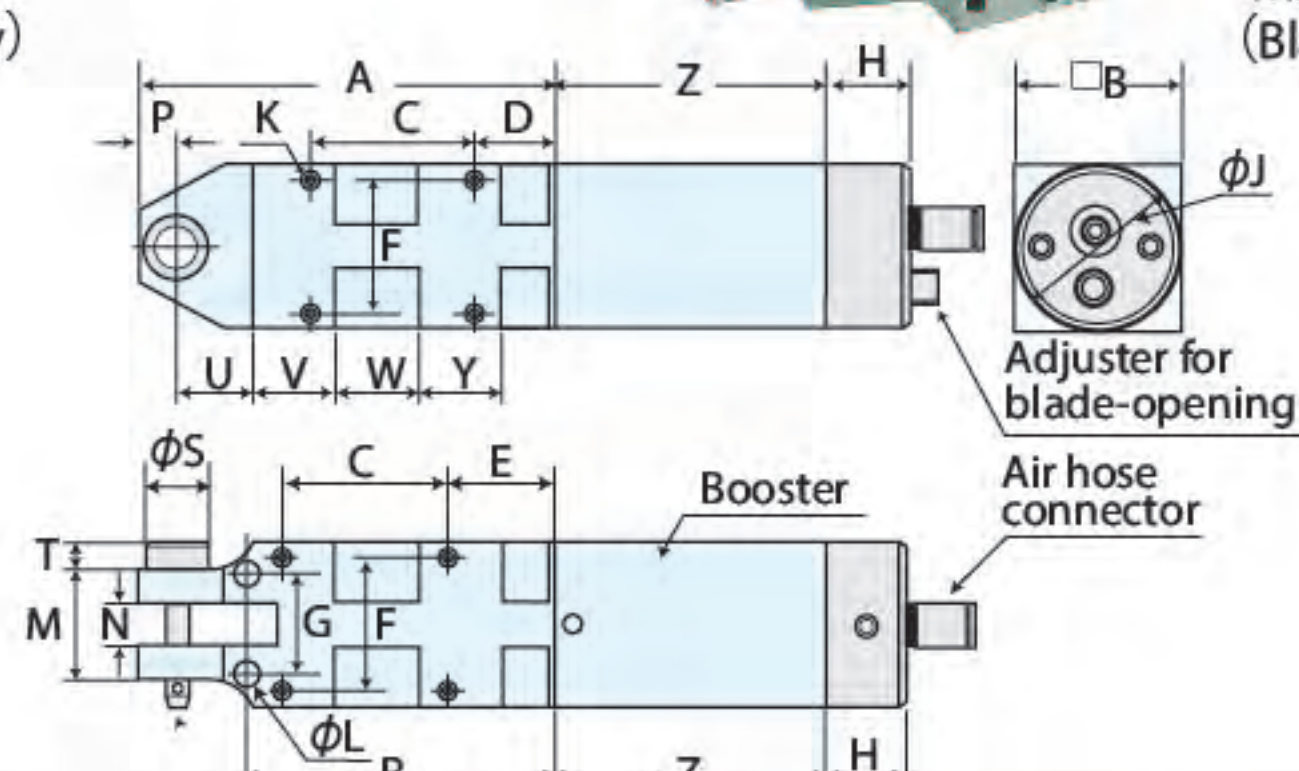
| Model (less blade) | Weight (g) | Airconsumption (cm ³ /stroke) | Air pressure (MPa) | Fitting size | | Dimensions (mm) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|---|-----------------------|---------------|-------------------------|-----------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|-----|----|---|----|----|----|----|---|
| | | | | Hose coupling | Body Internal thread | A | B | C | D | E | F | G | H | J | K | L | M | N | P | R | S | T | U | V | W | Y | Z |
| MS3G | 75 | 31 | 0.4~0.5 | M5P=0.8 | Outer diameter $\phi 4$ | 89 | 20 | 40 | 19 | 24 | 16 | 14 | 12 | 20 | M3 | 3.3 | 20 | 7 | 7 | 71 | 11 | 5 | 3 | 25 | 25 | 15 | - |
| MS5G | 141 | 56 | 0.4~0.5 | M5P=0.8 | Outer diameter $\phi 4$ | 74 | 30 | 30 | 14 | 19 | 24 | 18 | 15 | 30 | M3 | 4.3 | 20 | 7 | 7 | 54 | 11 | 5 | 13 | 15 | 15 | 15 | - |
| MS10G | 254 | 105 | 0.4~0.5 | G1/8 | Outer diameter $\phi 6$ | 93 | 36 | 30 | 18 | 23 | 28 | 28 | 24 | 36 | M4 | 4.3 | 23 | 9 | 7 | 65 | 11 | 5 | 16 | 27 | 15 | 15 | - |
| MS10AG | 248 | 122 | 0.5~0.6 | G1/8 | Outer diameter $\phi 6$ | 93 | 36 | 30 | 18 | 23 | 28 | 28 | 24 | 36 | M4 | 4.3 | 26 | 12 | 7 | 65 | 11 | 5 | 16 | 27 | 15 | 15 | - |
| MS20G | 425 | 268 | 0.5~0.6 | G1/8 | Outer diameter $\phi 6$ | 109 | 45 | 40 | 19 | 24 | 36 | 30 | 27 | 45 | M4 | 5.3 | 26 | 12 | 9 | 81 | 11 | 5 | 15 | 31 | 25 | 15 | - |
| MS30G | 788 | 631 | 0.5~0.6 | G1/8 | Outer diameter $\phi 6$ | 150 | 56 | 60 | 20 | 30 | 46 | 40 | 27 | 56 | M5 | 5.3 | 36 | 17 | 15 | 110 | 12 | 5 | 20 | 41 | 38 | 22 | - |

MACHINE-FITTING TYPE

MSP-G Type Heavy-duty



MSP30G
(Blade sold separately)



MSP-G type specification

| Model (less blade) | Weight (g) | Airconsumption (cm ³ /stroke) | Air pressure (MPa) | Fitting size | | Dimensions (mm) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|---|-----------------------|---------------|-------------------------|-----------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|-----|----|---|----|----|----|----|------|
| | | | | Hose coupling | Body Internal thread | A | B | C | D | E | F | G | H | J | K | L | M | N | P | R | S | T | U | V | W | Y | Z |
| MSP3G | 111 | 48 | 0.3~0.4 | M5P=0.8 | Outer diameter $\phi 4$ | 89 | 20 | 40 | 19 | 24 | 16 | 14 | 12 | 20 | M3 | 3.3 | 20 | 7 | 7 | 71 | 11 | 5 | 3 | 25 | 25 | 15 | 61 |
| MSP5G | 205 | 94 | 0.3~0.4 | M5P=0.8 | Outer diameter $\phi 4$ | 74 | 30 | 30 | 14 | 19 | 24 | 18 | 15 | 30 | M3 | 4.3 | 20 | 7 | 7 | 54 | 11 | 5 | 13 | 15 | 15 | 15 | 50 |
| MSP10G | 369 | 174 | 0.3~0.4 | G1/8 | Outer diameter $\phi 6$ | 93 | 36 | 30 | 18 | 23 | 28 | 28 | 24 | 36 | M4 | 4.3 | 23 | 9 | 7 | 65 | 11 | 5 | 16 | 27 | 15 | 15 | 71.5 |
| MSP10AG | 366 | 209 | 0.4~0.5 | G1/8 | Outer diameter $\phi 6$ | 93 | 36 | 30 | 18 | 23 | 28 | 28 | 24 | 36 | M4 | 4.3 | 26 | 12 | 7 | 65 | 11 | 5 | 16 | 27 | 15 | 15 | 71.5 |
| MSP20G | 648 | 373 | 0.4~0.5 | G1/8 | Outer diameter $\phi 6$ | 109 | 45 | 40 | 19 | 24 | 36 | 30 | 27 | 45 | M4 | 5.3 | 26 | 12 | 9 | 81 | 11 | 5 | 15 | 31 | 25 | 15 | 87 |
| MSP30G | 1,115 | 1,146 | 0.5~0.6 | G1/8 | Outer diameter $\phi 6$ | 150 | 56 | 60 | 20 | 30 | 46 | 40 | 27 | 56 | M5 | 5.3 | 36 | 17 | 15 | 110 | 12 | 5 | 20 | 41 | 38 | 22 | 92 |

Shapes & Dimensions of Standard Blades pp.5-10

Special Blades (Custom-made blades) pp.11-12

Designed to meet your particular application. Samples of actual work pieces are required - inquire for designing and quoting. ★ Blade sold separately

MS-G type Blade cutting capacity

| Model | Blade (*) Carbide tipped | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic | |
|---------------------|-----------------------------------|-------------|------------|----------------|------------|----------|----------|------|
| | | | | | | | Soft | Hard |
| MS3G | S20, S20S, CR20, EP20, SD20 | 0.8 | 0.4 | - | - | - | - | - |
| | Z20*, Z20S, ZCR20, ZEP20 | 0.8 | 0.4 | 0.2 | 0.2 | - | - | - |
| | F10, F10S, FD10, FEP20 | - | - | - | - | - | 1.0 | - |
| MS5G | S2, S2S, CR2, EP2, SD2 | 1.0 | 0.5 | - | - | - | - | - |
| | Z2*, Z2S, ZCR2, ZEP2 | 1.0 | 0.5 | 0.3 | 0.3 | - | - | - |
| | F1, F1S, FD1, FEP2 | - | - | - | - | - | 2.0 | - |
| MS10G | S4, S4S, CR4, EP4, SD4 | 1.6 | 1.0 | - | - | - | - | - |
| | Z4*, Z4S, ZCR4, ZEP4 | 1.6 | 1.0 | 0.5 | 0.5 | - | - | - |
| | F3, F3S, FD3, F3LS, FEP4, FEP4L | - | - | - | - | - | 4.0 | 2.6 |
| MS10AG | Y4 | - | - | - | - | - | - | - |
| | S5A, S5AS, CR6A, EP6A, SD5A | 1.8 | 1.2 | 1.0 | - | - | - | - |
| | Z6A*, ZCR6A, ZEP6A, Z6AS | 1.8 | 1.2 | 1.0 | 0.5 | - | - | - |
| MS20G | F5A, F5AS, FD5A, FEP6A | - | - | - | - | - | 4.0 | 2.6 |
| | Y6A | - | - | - | - | - | - | - |
| | S5, S5S, P6, CR6, EP6, SD5 | 2.6 | 2.0 | 1.6 | - | - | - | - |
| MS30G | Z6*, Z6S, ZCR6, ZEP6 | 2.6 | 2.0 | 1.6 | 1.0 | - | - | - |
| | F5, F5S, FD5, F5LS, FEP6, FEP6L | - | - | - | - | - | 7.0 | 5.0 |
| | Y6, K6 | - | - | - | - | - | - | - |
| MS30G | S7P, S7PS, P8P, CR8P, EP10P, P8PS | 3.3 | 2.8 | 2.0 | - | - | - | - |
| | Z8P*, Z8PS, ZCR8P, ZEP10P | 3.3 | 2.8 | 2.0 | 1.2 | - | - | - |
| | F9P, F9PS, FD9P | - | - | - | - | - | 10.0 | 6.5 |
| | FEP10P | - | - | - | - | - | 8.0 | 6.5 |
| | Y8P, K8P | - | - | - | - | - | - | - |
| | SH8P | - | - | - | - | - | - | - |
| | A8P-1.25, A8P-2.0 | - | - | - | - | - | 1.25/2.0 | - |
| AR8P-1.25, AR8P-2.0 | - | - | - | - | - | 1.25/2.0 | - | |

MSP-G type Blade cutting capacity

| Model | Blade (*) Carbide tipped | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic | |
|---|---|-------------|------------|----------------|------------|------------|------------|------|
| | | | | | | | Soft | Hard |
| MSP3G | S20, S20S, CR20, EP20, SD20 | 0.8 | 0.4 | - | - | - | - | - |
| | Z20*, Z20S, ZCR20, ZEP20 | 0.8 | 0.4 | 0.2 | 0.2 | - | - | - |
| | F10, F10S, FD10, FEP20 | - | - | - | - | - | 1.0 | - |
| MSP5G | S2, S2S, CR2, EP2, SD2 | 1.0 | 0.5 | - | - | - | - | - |
| | Z2*, Z2S, ZCR2, ZEP2 | 1.0 | 0.5 | 0.3 | 0.3 | - | - | - |
| | F1, F1S, FD1, FEP2 | - | - | - | - | - | 2.0 | - |
| MSP10G | S4, S4S, CR4, EP4, SD4 | 1.6 | 1.0 | - | - | - | - | - |
| | Z4*, Z4S, ZCR4, ZEP4 | 1.6 | 1.0 | 0.5 | 0.5 | - | - | - |
| | F3, F3S, FD3, F3LS, FEP4, FEP4L | - | - | - | - | - | 4.0 | 2.6 |
| MSP10AG | Y4 | - | - | - | - | - | - | - |
| | S5A, S5AS, CR6A, EP6A, SD5A | 1.8 | 1.2 | 1.0 | - | - | - | - |
| | Z6A*, ZCR6A, ZEP6A, Z6AS | 1.8 | 1.2 | 1.0 | 0.5 | - | - | - |
| MSP20G | F5A, F5AS, FD5A, FEP6A | - | - | - | - | - | 4.0 | 2.6 |
| | Y6A | - | - | - | - | - | - | - |
| | S5, S5S, P6, CR6, EP6, SD5 | 2.6 | 2.0 | 1.6 | - | - | - | - |
| MSP30G | Z6*, Z6S, ZCR6, ZEP6 | 2.6 | 2.0 | 1.6 | 1.0 | - | - | - |
| | F5, F5S, FD5, F5LS, FEP6, FEP6L | - | - | - | - | - | 7.0 | 5.0 |
| | Y6, K6 | - | - | - | - | - | - | - |
| MSP30G | S7P, S7PS, P8P, CR8P, EP10P, P8PS | 4.8 | 4.0 | 2.8 | - | - | - | - |
| | Z8P*, Z8PS, ZCR8P, ZEP10P | 4.8 | 4.0 | 2.8 | 1.2 | - | - | - |
| | F9P, F9PS, FD9P | - | - | - | - | - | 13.0 | 6.5 |
| | FEP10P | - | - | - | - | - | 8.0 | 6.5 |
| | Y8P, K8P | - | - | - | - | - | - | - |
| | SH8P | - | - | - | - | - | - | - |
| | A8P-1.25/2.0/5.5, A8WP-1.25-2.0/2.0-5.5 | - | - | - | - | - | 1.25/20/55 | - |
| AR8P-1.25/2.0/5.5, AR8WP-1.25-2.0/2.0-5.5 | - | - | - | - | - | 1.25/20/55 | - | |

SQUARE AIR NIPPERS

MACHINE-FITTING TYPE

WS Type



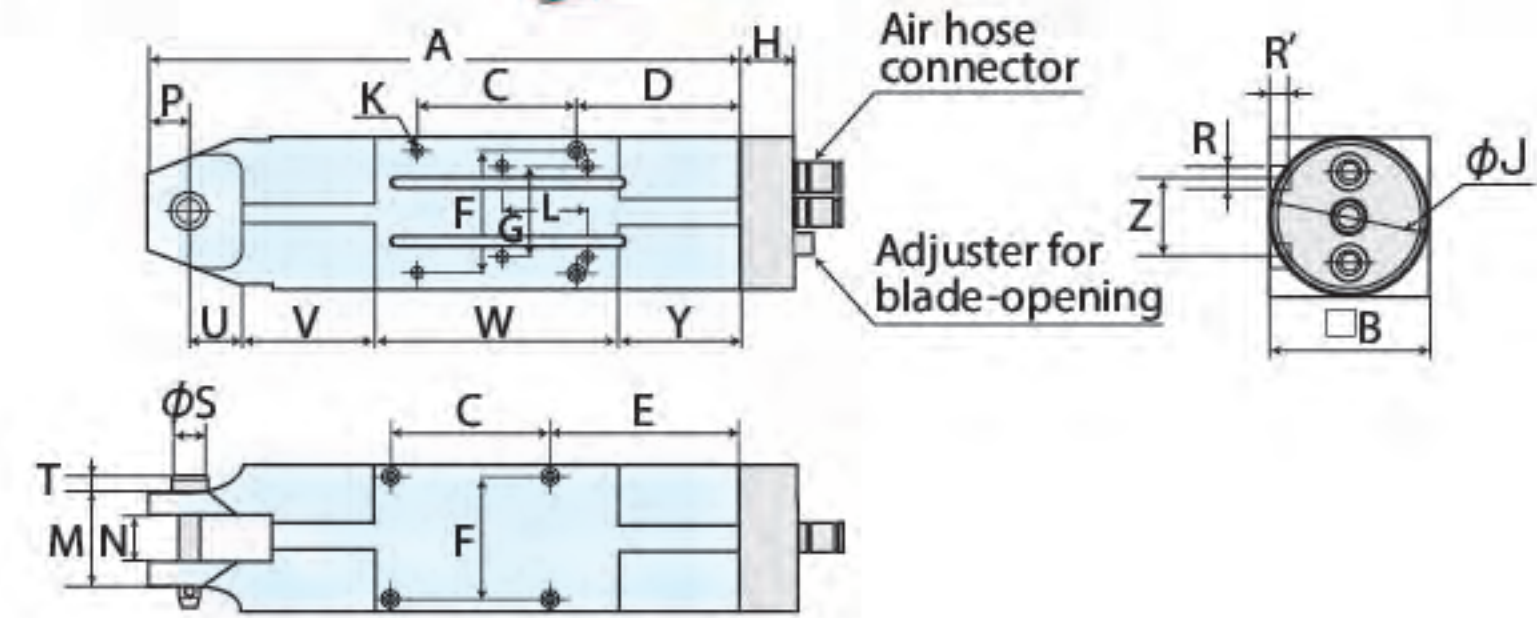
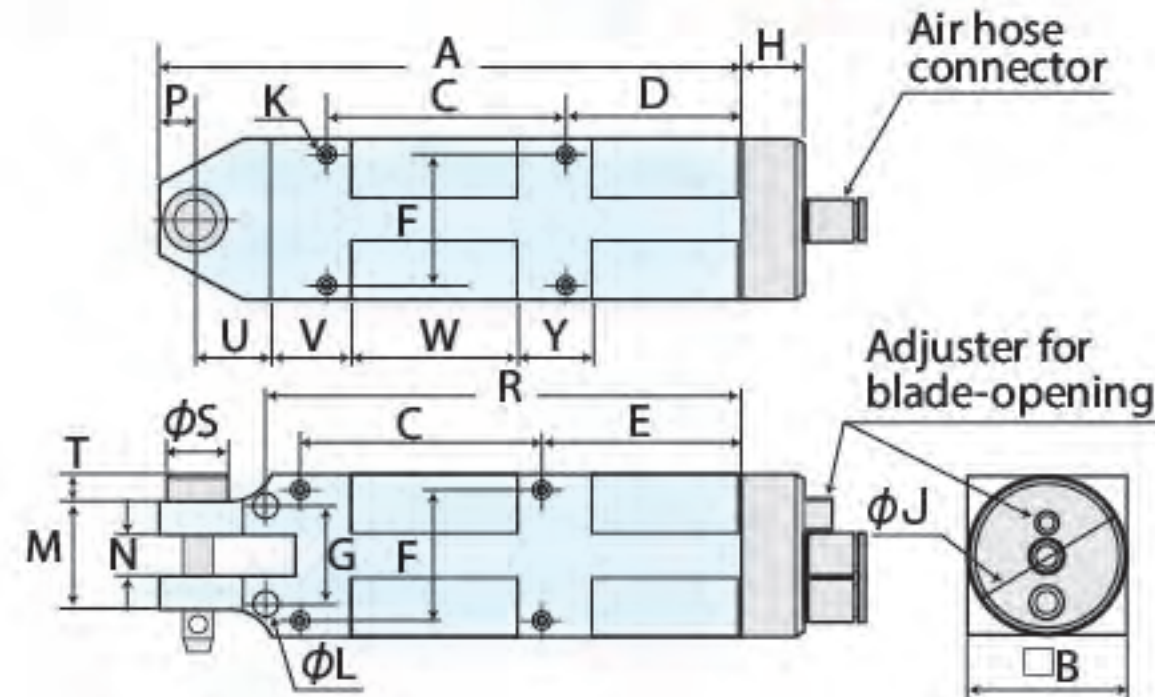
WS20
(Blade sold separately)

MACHINE-FITTING TYPE

WS-S Type



WS30S
(Blade sold separately)



WS type specification

| Model (less blade) | Weight (g) | Air consumption (cm ³ /stroke) | Air pressure (MPa) | Fitting size | | Dimensions (mm) | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|--|-----------------------|---------------|----------------------|-----------------|----|----|----|----|----|----|----|----|----|-----|----|----|---|-----|----|---|----|----|----|----|
| | | | | Hose coupling | Body internal thread | A | B | C | D | E | F | G | H | J | K | L | M | N | P | R | S | T | U | V | W | Y |
| WS3 | 88 | 41 | 0.4~0.5 | M5P=0.8 | Outer diameter φ4 | 107 | 20 | 43 | 34 | 39 | 16 | 14 | 6 | 20 | M3 | 3.3 | 20 | 7 | 7 | 89 | 11 | 5 | 3 | 24 | 30 | 13 |
| WS5 | 179 | 71 | 0.4~0.5 | M5P=0.8 | Outer diameter φ4 | 104 | 30 | 43 | 31 | 36 | 24 | 18 | 11 | 30 | M3 | 4.3 | 20 | 7 | 7 | 84 | 11 | 5 | 13 | 14 | 30 | 13 |
| WS10 | 309 | 179 | 0.4~0.5 | G1/8 | Outer diameter φ6 | 142 | 36 | 55 | 42 | 47 | 28 | 28 | 18 | 36 | M4 | 4.3 | 23 | 9 | 7 | 114 | 11 | 5 | 16 | 27 | 40 | 15 |
| WS20 | 537 | 516 | 0.5~0.6 | G1/8 | Outer diameter φ6 | 170 | 45 | 55 | 65 | 70 | 36 | 30 | 18 | 45 | M4 | 5.3 | 26 | 12 | 9 | 142 | 11 | 5 | 15 | 31 | 40 | 20 |

WS-S type specification

| Model (less blade) | Weight (g) | Air consumption (cm ³ /stroke) | Air pressure (MPa) | Fitting size | | Dimensions (mm) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|--|-----------------------|---------------|----------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|---|-----|----|---|----|----|----|----|------|
| | | | | Hose coupling | Body internal thread | A | B | C | D | E | F | G | H | J | K | L | M | N | R | R' | S | T | U | V | W | Y | Z |
| WS20S | 650 | 274 | 0.5~0.6 | G1/8 | Outer diameter φ6 | 170 | 45 | 40 | 65 | 70 | 36 | 34 | 18 | 45 | M4 | 32 | 26 | 12 | 4 | 4.2 | 11 | 5 | 15 | 31 | 80 | 35 | 20.6 |
| WS30S | 1,250 | 464 | 0.5~0.6 | G1/8 | Outer diameter φ6 | 223 | 56 | 60 | 62 | 72 | 46 | 34 | 21 | 56 | M5 | 32 | 36 | 17 | 4 | 4.2 | 12 | 5 | 20 | 50 | 92 | 46 | 22 |

Shapes & Dimensions of Standard Blades pp.5-10

Special Blades (Custom-made blades) pp.11-12

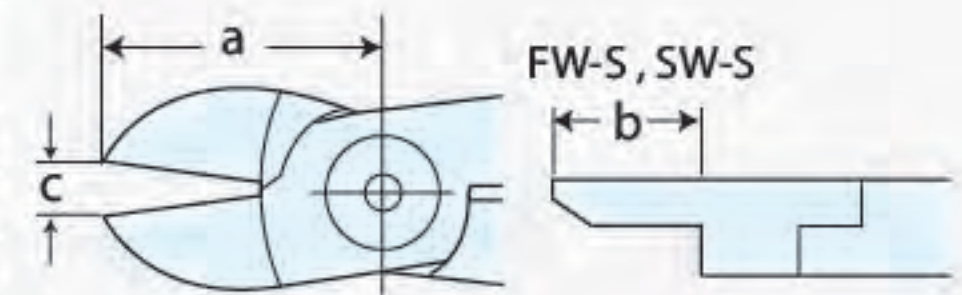
Designed to meet your particular application. Samples of actual work pieces are required - inquire for designing and quoting.

★ Blade sold separately

WS type Blade cutting capacity (φmm)

| Model | Blade | Copper wire | | | Steel wire | | | Plastic | | |
|-------|-------|-------------|-----|----|------------|----|----|---------|----|----|
| | | φ | mm | mm | φ | mm | mm | φ | mm | mm |
| WS3 | FW10S | - | - | - | - | - | - | - | - | - |
| | SW20S | 0.8 | 0.4 | - | - | - | - | - | - | - |
| WS5 | FW1S | - | - | - | - | - | - | - | - | - |
| | SW2S | 1.0 | 0.5 | - | - | - | - | - | - | - |
| WS10 | FW3S | - | - | - | - | - | - | - | - | - |
| | SW4S | 1.6 | 1.0 | - | - | - | - | - | - | - |
| WS20 | FW5S | - | - | - | - | - | - | - | - | - |
| | SW5S | 2.6 | 2.0 | - | - | - | - | - | - | - |

| Blade | a (mm) | | | b (mm) | | | c (mm) | | |
|-------|--------|----|---------|--------|----|---------|--------|----|---------|
| | a | b | c | a | b | c | a | b | c |
| FW10S | 24 | 12 | 2.5~3.0 | 24 | 12 | 2.5~3.0 | 24 | 12 | 2.5~3.0 |
| FW1S | 24 | 12 | 3.0~3.5 | 24 | 12 | 3.0~3.5 | 24 | 12 | 3.0~3.5 |
| FW3S | 27 | 13 | 5.0~5.5 | 27 | 13 | 5.0~5.5 | 27 | 13 | 5.0~5.5 |
| FW5S | 35 | 17 | 8.0~8.5 | 35 | 17 | 8.0~8.5 | 35 | 17 | 8.0~8.5 |



Shapes & Dimensions of Standard Blades pp.5-10

Special Blades (Custom-made blades) pp.11-12

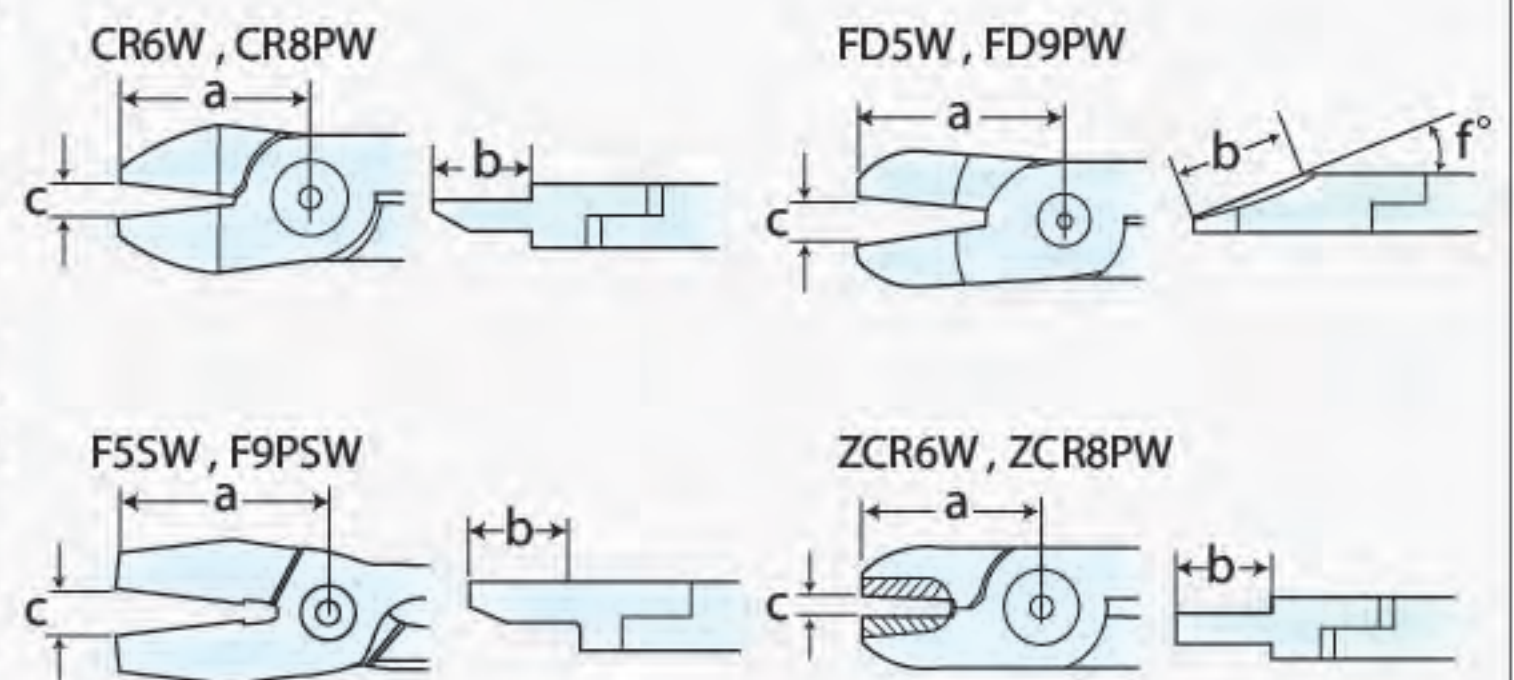
Designed to meet your particular application. Samples of actual work pieces are required o inquiry for designing and quoting.

★ Blade sold separately

WS-S type Blade cutting capacity (φmm)

| Model | Blade | Copper wire | | | Steel wire | | | Plastic | | |
|-------|--------|-------------|-----|----|------------|----|----|---------|----|----|
| | | φ | mm | mm | φ | mm | mm | φ | mm | mm |
| WS20S | CR6W | 2.6 | 2.0 | - | - | - | - | - | - | - |
| | FD5W | - | - | - | - | - | - | - | - | - |
| | F5SW | - | - | - | - | - | - | - | - | - |
| | ZCR6W | 2.6 | 2.0 | - | - | - | - | - | - | - |
| WS30S | CR8PW | 3.3 | 2.8 | - | - | - | - | - | - | - |
| | FD9PW | - | - | - | - | - | - | - | - | - |
| | F9PSW | - | - | - | - | - | - | - | - | - |
| | ZCR8PW | 3.3 | 2.8 | - | - | - | - | - | - | - |

| Blade | a (mm) | | | b (mm) | | | c (mm) | | | f° |
|--------|--------|----|-----------|--------|---|---|--------|---|---|----|
| | a | b | c | a | b | c | a | b | c | |
| CR6W | 34 | 17 | 7~8 | - | - | - | - | - | - | - |
| FD5W | 35 | 14 | 8~9 | 40 | - | - | - | - | - | - |
| F5SW | 35 | 16 | 8~9 | - | - | - | - | - | - | - |
| ZCR6W | 35 | 16 | 7~8 | - | - | - | - | - | - | - |
| CR8PW | 43 | 22 | 7~8 | - | - | - | - | - | - | - |
| FD9PW | 59 | 30 | 12.5 | 30 | - | - | - | - | - | - |
| F9PSW | 66 | 37 | 13.5~14.5 | - | - | - | - | - | - | - |
| ZCR8PW | 38 | 17 | 7.0 | - | - | - | - | - | - | - |

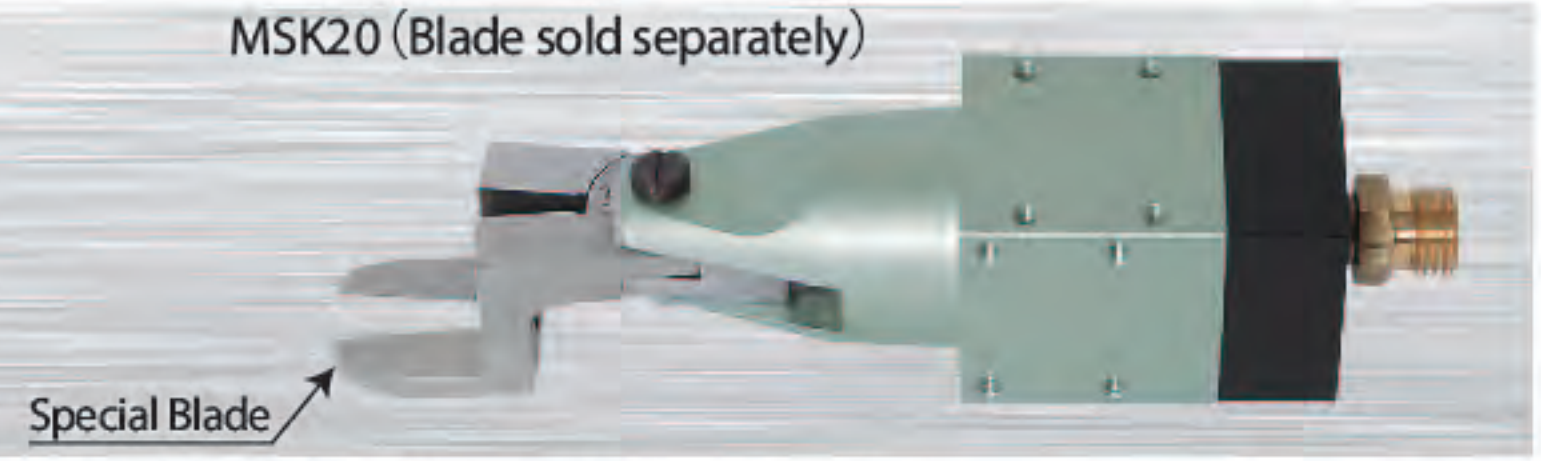


SQUARE AIR NIPPERS

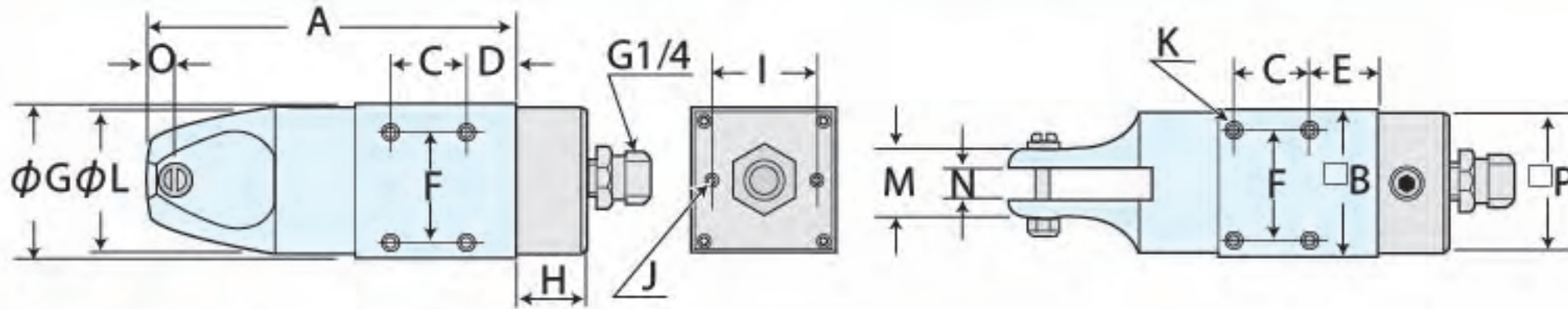
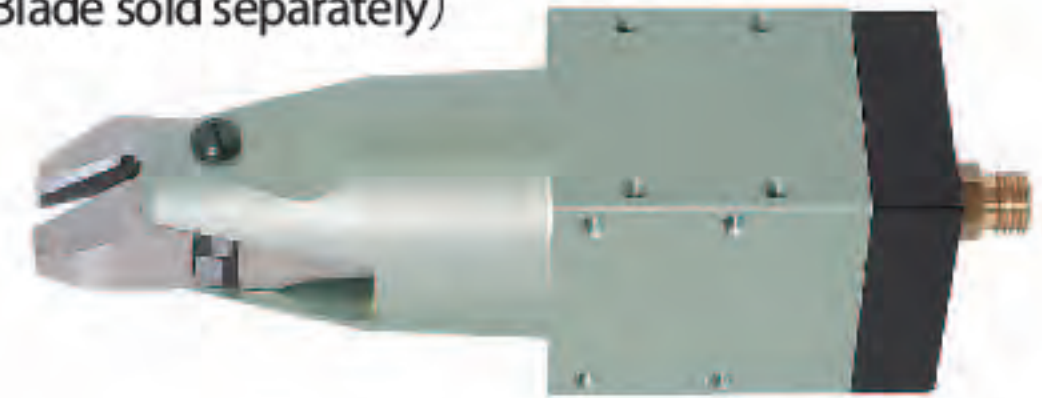
MACHINE-FITTING TYPE

MSK Type

MSK20 (Blade sold separately)



MSK30 (Blade sold separately)

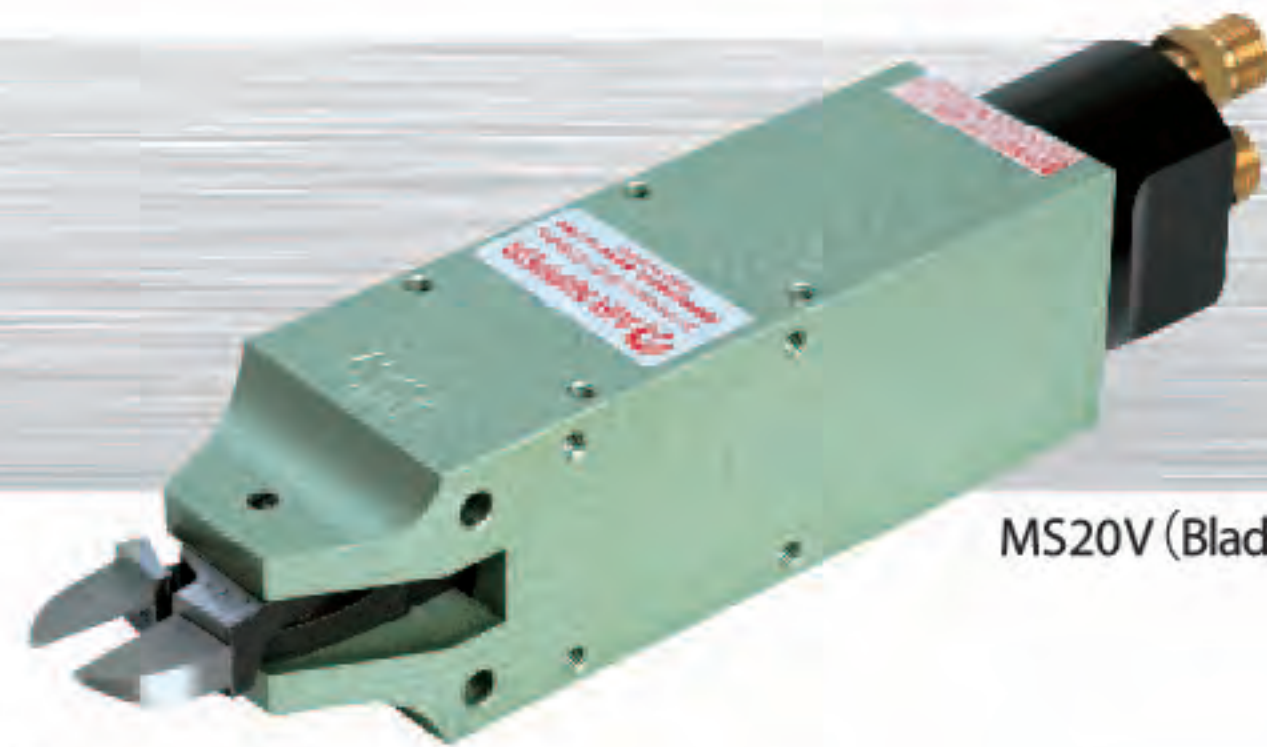


MSK type specification

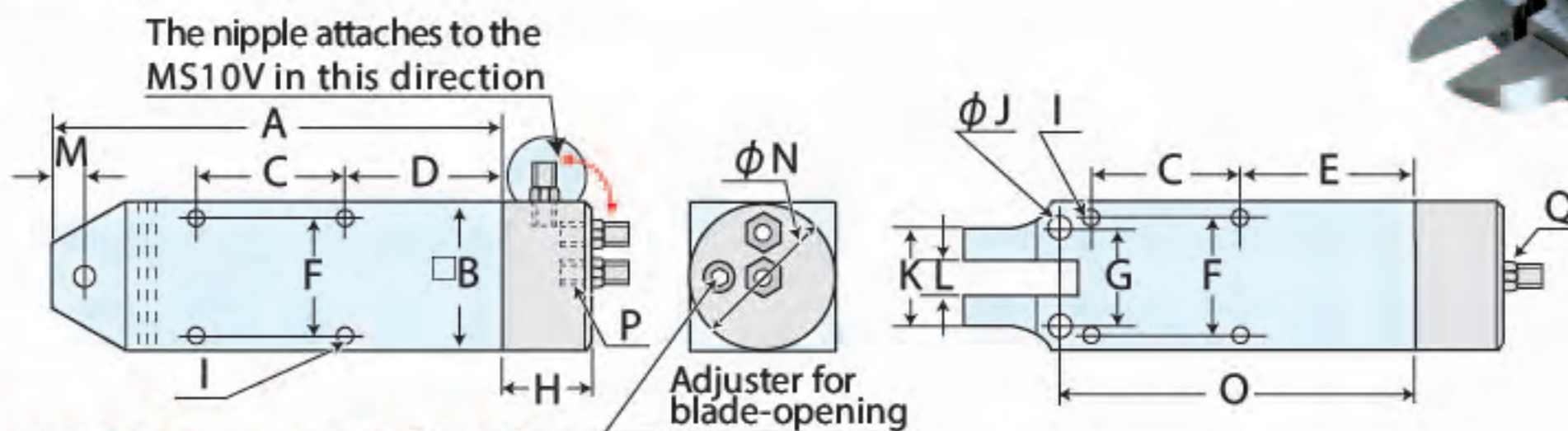
| Model (less blade) | Weight (g) | Airconsumption (cm ³ /stroke) | Air pressure (MPa) | Fitting size | | Dimensions (mm) | | | | | | | | | | | | | | | |
|-----------------------|---------------|---|-----------------------|---------------|----------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | | Hose coupling | Body Internal thread | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| MSK10 | 190 | 105 | 0.4~0.5 | G1/8 | G1/4 | 87 | 36 | 18 | 10 | 15 | 28 | 35 | 17 | 24 | M4 | M4 | 33 | 18 | 9 | 7 | 35 |
| MSK20 | 340 | 270 | 0.5~0.6 | G1/8 | G1/4 | 102 | 45 | 20 | 15 | 20 | 36 | 44 | 17 | 30 | M5 | M4 | 42 | 24 | 12 | 9 | 44 |
| MSK30 | 590 | 631 | 0.5~0.6 | G1/8 | G1/4 | 141 | 56 | 27 | 18 | 26 | 46 | 55 | 17 | 40 | M6 | M5 | 54 | 34 | 17 | 15 | 55 |

MACHINE-FITTING TYPE

MS-V Type



MS20V (Blade sold separately)



MS-V type specification

| Model (less blade) | Weight (g) | Airconsumption (cm ³ /stroke) | Air pressure (MPa) | Fitting size | | Dimensions (mm) | | | | | | | | | | | | | | | |
|-----------------------|---------------|---|-----------------------|---------------|----------------------|-----------------|----|----|----|----|----|----|----|----|-----|----|----|----|----|-----|-----------------------|
| | | | | Hose coupling | Body Internal thread | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| MS10V | 345 | 107 | 0.4~0.5 | G1/8 | G1/4 | 116 | 36 | 30 | 41 | 46 | 28 | 28 | 23 | M4 | 4.3 | 20 | 9 | 7 | 36 | 88 | G1/8 nipple R1/8×G1/4 |
| MS20V | 650 | 340 | 0.5~0.6 | G1/8 | G1/4 | 147 | 45 | 40 | 57 | 62 | 36 | 30 | 31 | M4 | 5.3 | 26 | 12 | 9 | 45 | 119 | G1/8 nipple R1/8×G1/4 |
| MS30V | 1,150 | 569 | 0.5~0.6 | G1/8 | G1/4 | 185 | 56 | 60 | 55 | 65 | 46 | 40 | 33 | M5 | 5.3 | 36 | 17 | 15 | 56 | 145 | G1/8 nipple R1/8×G1/4 |

Shapes & Dimensions of Standard Blades pp.5-10

Special Blades (Custom-made blades) pp.11-12

★ Blade sold separately

MSK/MS-V type Blade cutting capacity

| Model | Blade (* Carbide tipped) | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic (φmm) | | Model | Blade (* Carbide tipped) | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic (φmm) | | |
|-------|---------------------------------|-------------|------------|----------------|------------|----------|---------------|---------------------------|-------|-----------------------------------|-------------|------------|----------------|------------|----------|---------------|------|-----|
| | | | | | | | Soft | Hard | | | | | | | | Soft | Hard | |
| MSK10 | S4, S4S, CR4, EP4, SD4 | 1.6 | 1.0 | - | - | - | - | - | MSK30 | S7P, S7PS, P8P, CR8P, EP10P, P8PS | 3.3 | 2.8 | 2.0 | - | - | - | - | |
| | Z4*, Z4S, ZCR4, ZEP4 | 1.6 | 1.0 | 0.5 | 0.5 | - | - | Z8P*, Z8PS, ZCR8P, ZEP10P | | 3.3 | 2.8 | 2.0 | 1.2 | - | - | - | - | |
| MS10V | F3, F3S, FD3, F3LS, FEP4, FEP4L | - | - | - | - | - | 4.0 | 2.6 | MS30V | F9P, F9PS, FD9P | - | - | - | - | - | 10.0 | 6.5 | |
| | Y4 | - | - | - | - | - | - | - | | FEP10P | - | - | - | - | - | - | 8.0 | 6.5 |
| MSK20 | S5, S5S, P6, CR6, EP6, SD5 | 2.6 | 2.0 | 1.6 | - | - | - | - | MS30V | Y8P, K8P | - | - | - | - | - | - | - | |
| | Z6*, Z6S, ZCR6, ZEP6 | 2.6 | 2.0 | 1.6 | 1.0 | - | - | - | | SH8P | - | - | - | - | - | - | - | - |
| MS20V | F5, F5S, FD5, F5LS, FEP6, FEP6L | - | - | - | - | - | 7.0 | 5.0 | MS30V | A8P-1.25, A8P-2.0 | - | - | - | - | - | 1.25/2.0 | - | - |
| | Y6, K6 | - | - | - | - | - | - | - | | AR8P-1.25, AR8P-2.0 | - | - | - | - | - | 1.25/2.0 | - | - |

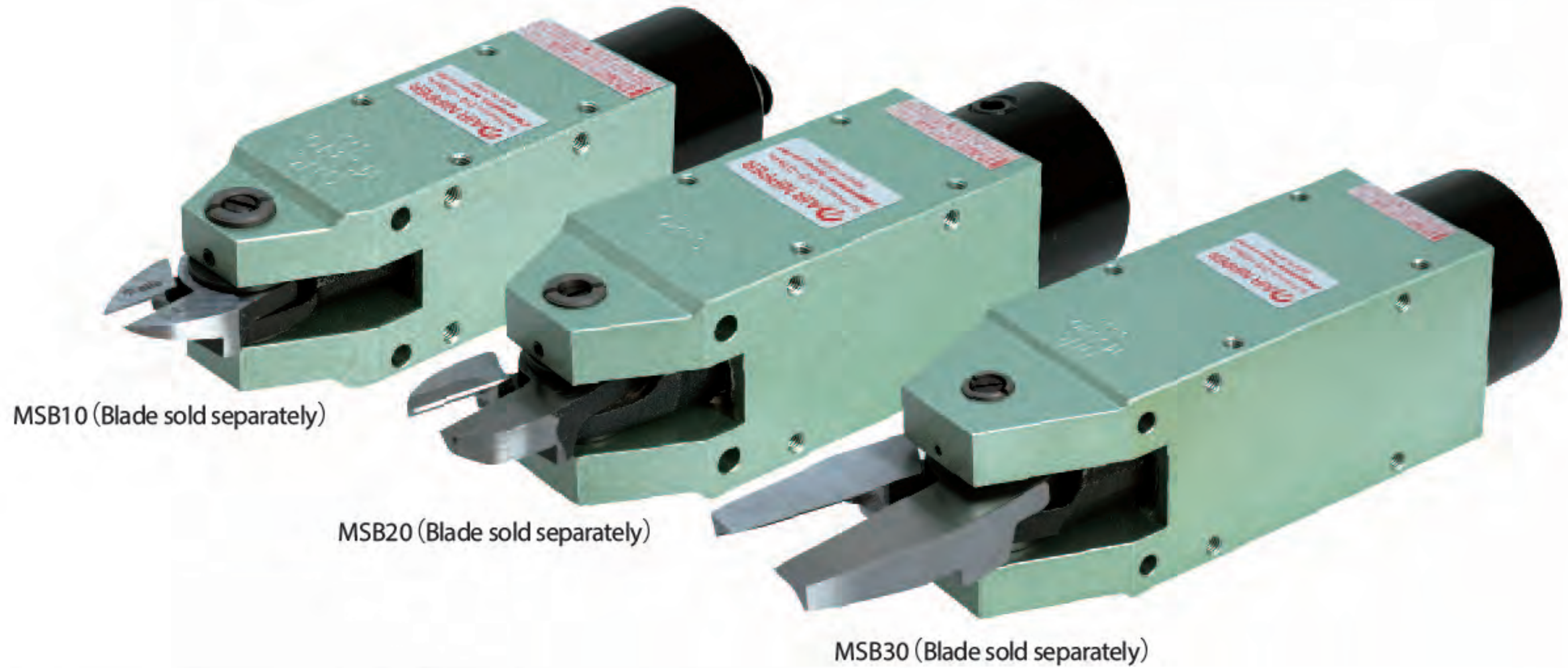
SQUARE AIR NIPPERS

MACHINE-FITTING TYPE

MSB Type

A bearing is built into the back of the blade holder plate. It clamps the sliding surface (fulcrum) of the blade and reduces oscillation during cutting. High-precision cutting is realized.

Ideal for gate cutting of resin molded products and wire cutting of electronic components.

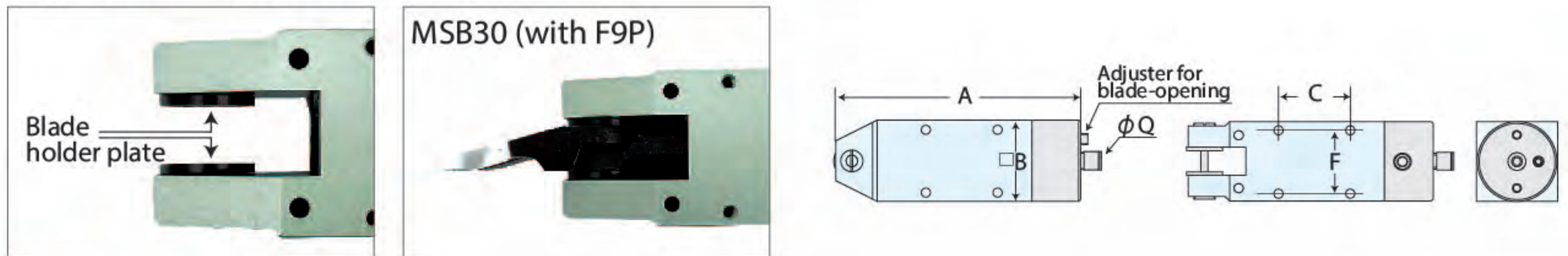


MSB10 (Blade sold separately)

MSB20 (Blade sold separately)

MSB30 (Blade sold separately)

The blade can be narrow by tightening the blade opening adjustment bolt. Use a hose with an outside diameter of 6Φ for all three models. Single-touch detachment is possible.



MSB type specification

| Model (less blade) | Weight (g) | Air consumption (cm ³ /stroke) | Air pressure (MPa) | Fitting size | | Dimensions (mm) | | | | |
|-----------------------|---------------|--|-----------------------|---------------|----------------------|-----------------|----|----|----|---|
| | | | | Hose coupling | Body internal thread | A | B | C | F | Q |
| MSB10 | 271 | 105 | 0.4~0.5 | G1/8 | Outer diameter Φ6 | 117 | 36 | 30 | 28 | 6 |
| MSB20 | 487 | 268 | 0.5~0.6 | G1/8 | Outer diameter Φ6 | 136 | 45 | 40 | 36 | 6 |
| MSB30 | 925 | 631 | 0.5~0.6 | G1/8 | Outer diameter Φ6 | 177 | 56 | 60 | 46 | 6 |

Shapes & Dimensions of Standard Blades pp.5-10

Special Blades (Custom-made blades) pp.11-12

★ Blade sold separately

MSB type Blade cutting capacity

| Model | Blade (*) Carbide tipped | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic (φmm) | | Model | Blade (*) Carbide tipped | Copper wire | Steel wire | Stainless wire | Piano wire | Crimping | Plastic (φmm) | | |
|-------|---------------------------------|-------------|------------|----------------|------------|----------|------------------|---------------------------|---------------------|-----------------------------------|-------------|------------|----------------|------------|----------|------------------|------|-----|
| | | | | | | | Soft | Hard | | | | | | | | Soft | Hard | |
| MSB10 | S4, S4S, CR4, EP4, SD4 | 1.6 | 1.0 | - | - | - | - | - | MSB30 | S7P, S7PS, P8P, CR8P, EP10P, P8PS | 3.3 | 2.8 | 2.0 | - | - | - | - | |
| | Z4*, Z4S, ZCR4, ZEP4 | 1.6 | 1.0 | 0.5 | 0.5 | - | - | Z8P*, Z8PS, ZCR8P, ZEP10P | | 3.3 | 2.8 | 2.0 | 1.2 | - | - | - | - | |
| | F3, F3S, FD3, F3LS, FEP4, FEP4L | - | - | - | - | - | 4.0 | 2.6 | | F9P, F9PS, FD9P | - | - | - | - | - | - | 10.0 | 6.5 |
| | Y4 | - | - | - | - | - | - | - | | FEP10P | - | - | - | - | - | - | 8.0 | 6.5 |
| MSB20 | S5, S5S, P6, CR6, EP6, SD5 | 2.6 | 2.0 | 1.6 | - | - | - | - | Y8P, K8P | - | - | - | - | - | - | - | - | |
| | Z6*, Z6S, ZCR6, ZEP6 | 2.6 | 2.0 | 1.6 | 1.0 | - | - | - | SH8P | - | - | - | - | - | - | - | - | |
| | F5, F5S, FD5, F5LS, FEP6, FEP6L | - | - | - | - | - | 7.0 | 5.0 | A8P-1.25, A8P-2.0 | - | - | - | - | - | 1.25/2.0 | - | - | |
| | Y6, K6 | - | - | - | - | - | - | - | AR8P-1.25, AR8P-2.0 | - | - | - | - | - | 1.25/2.0 | - | - | |