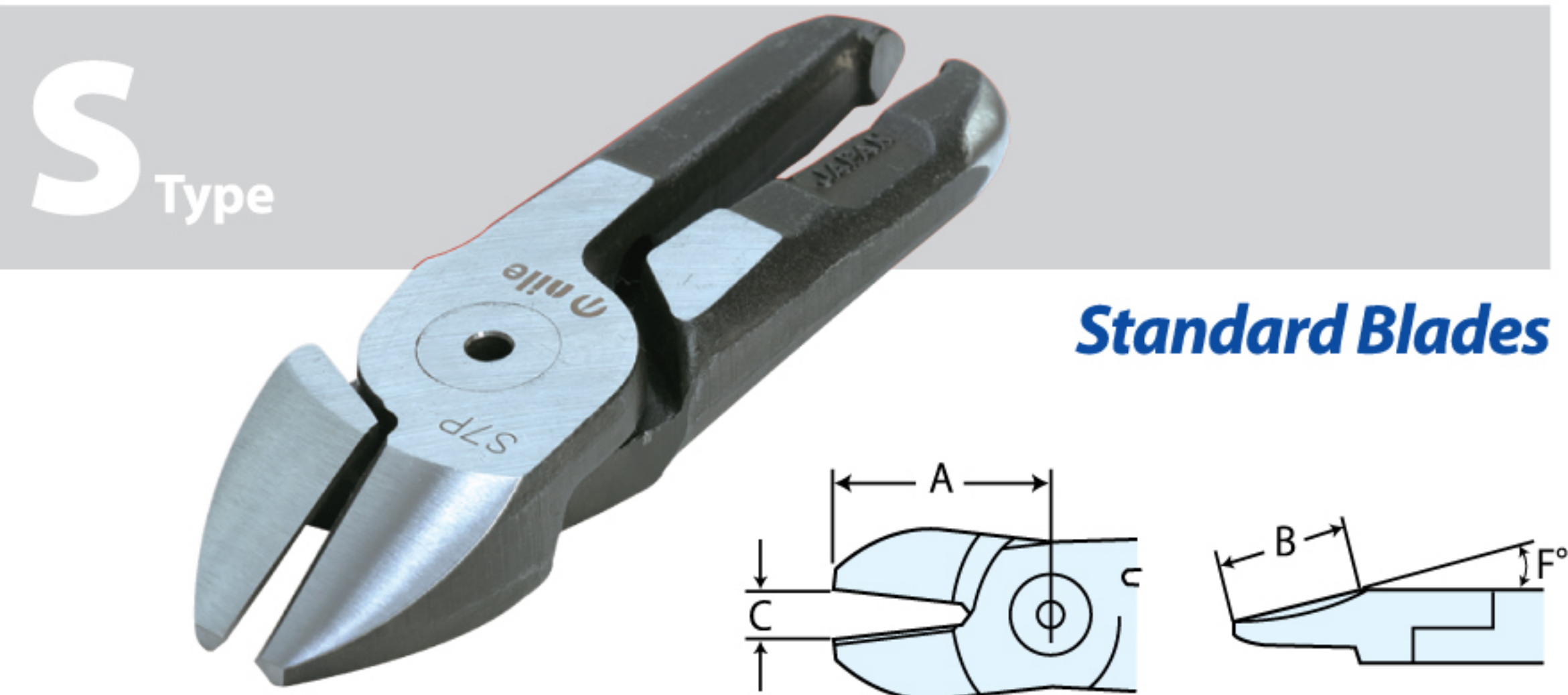
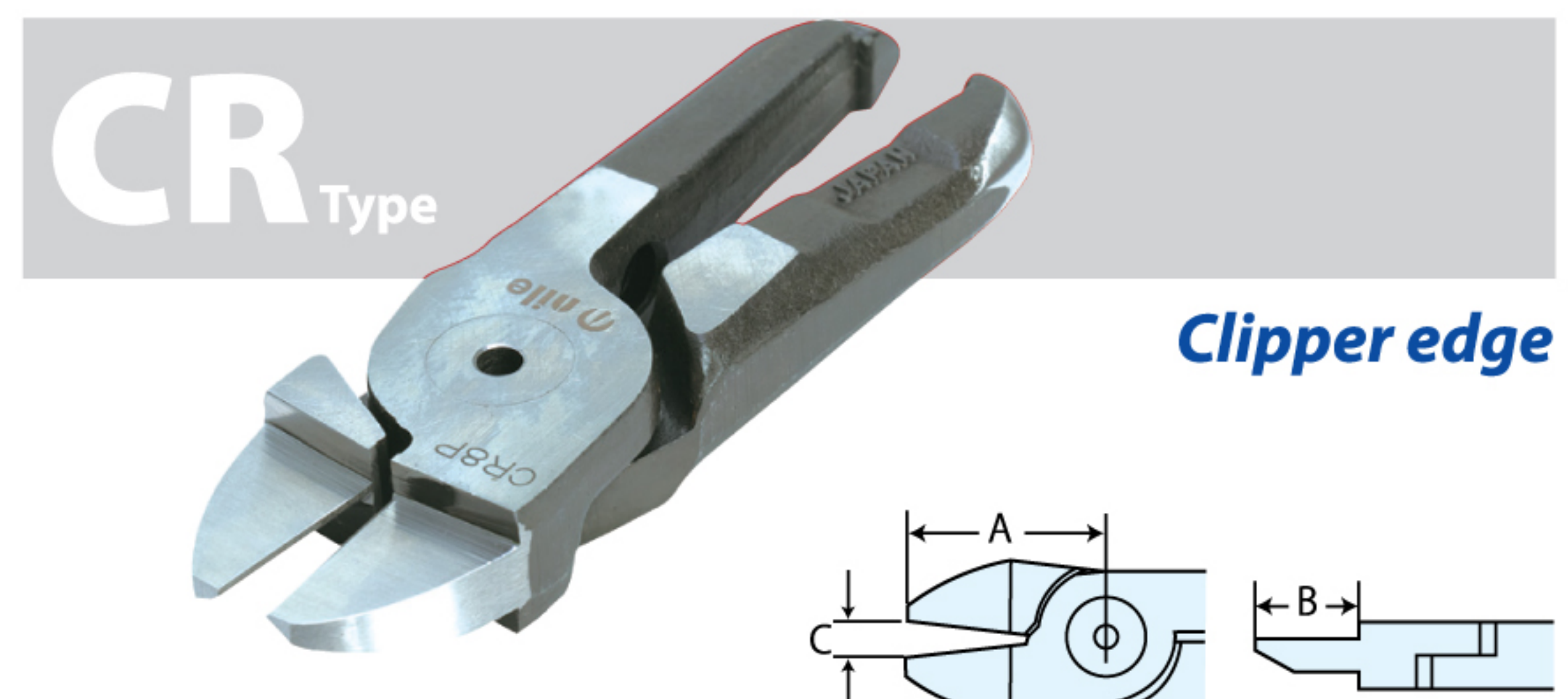


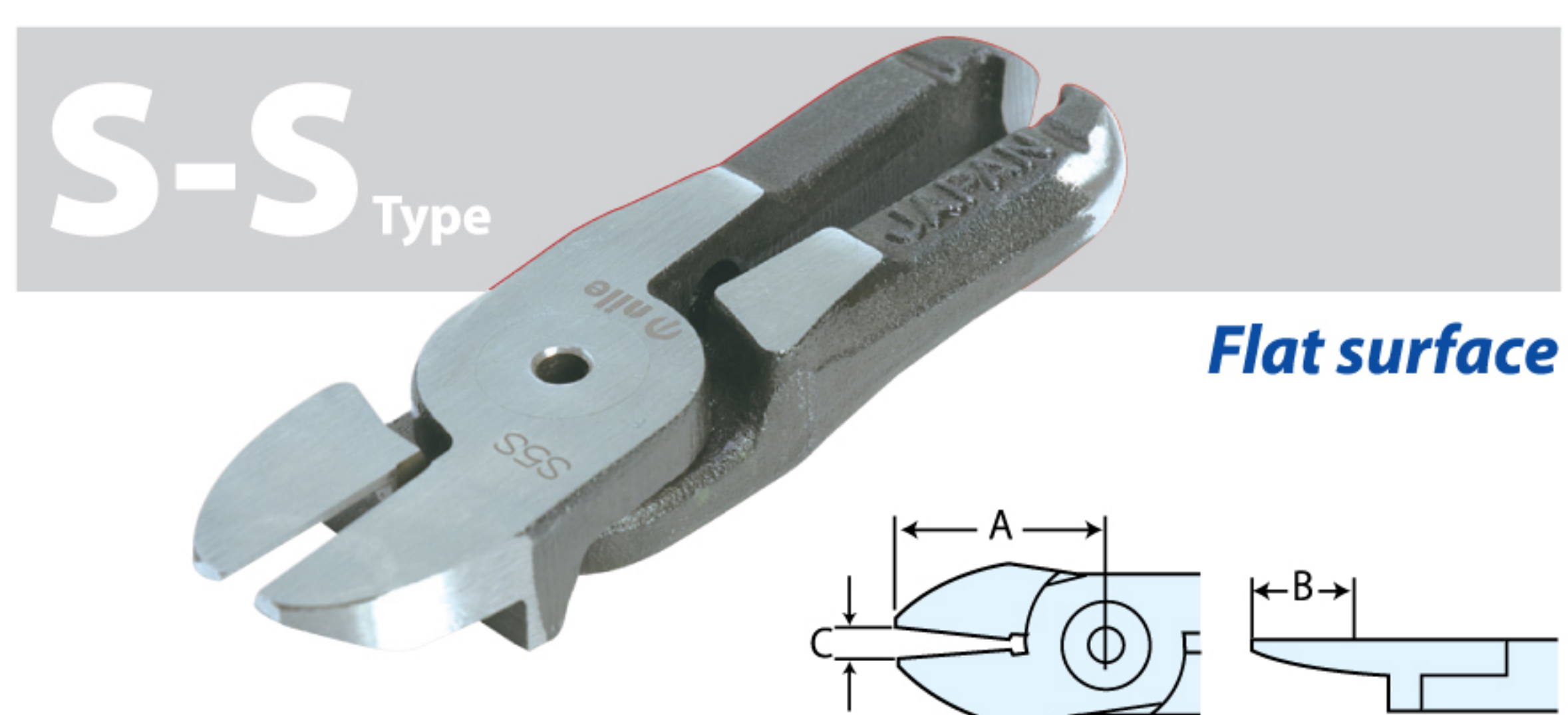
# | Cut Blade



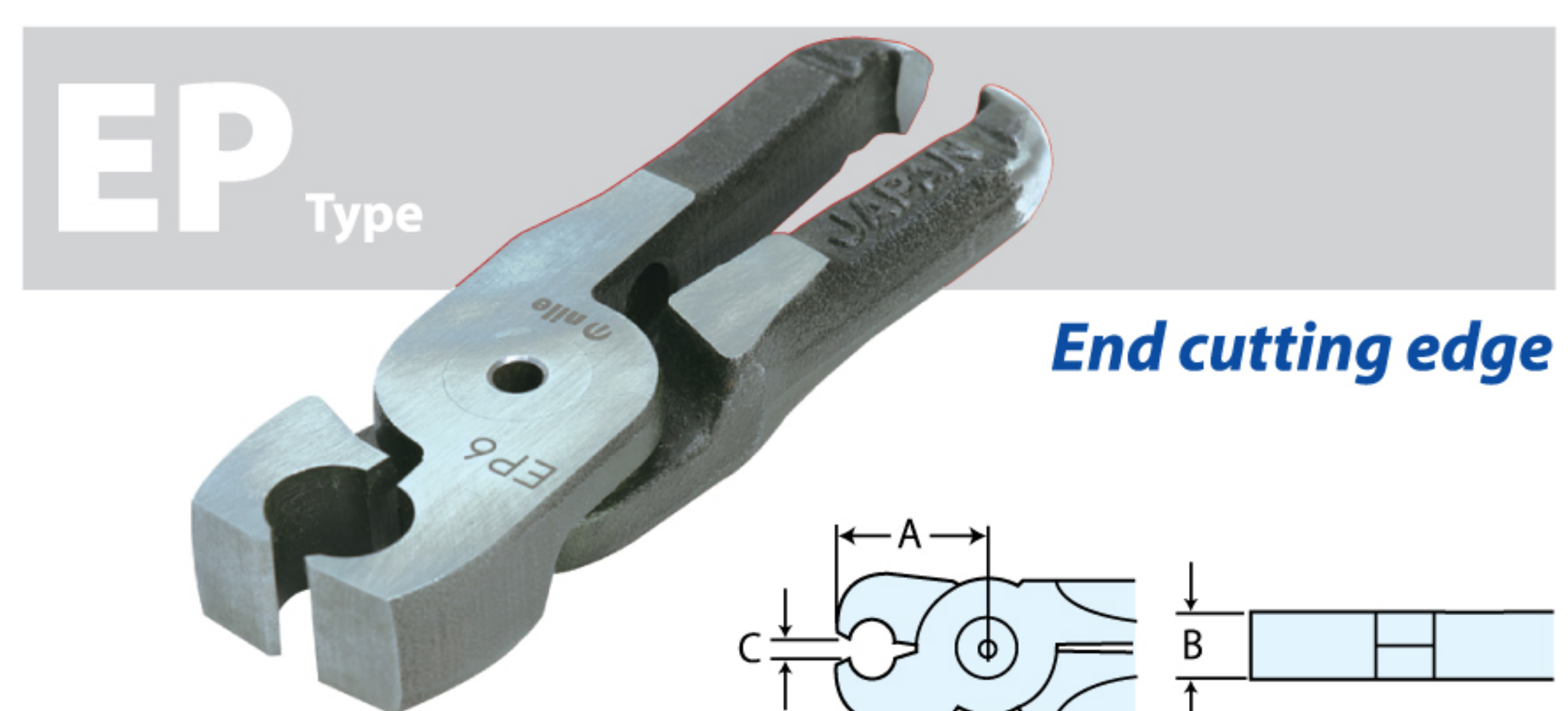
| Model | Dimensions (mm) |      |      |    | Section of blade |
|-------|-----------------|------|------|----|------------------|
|       | A               | B    | C    | F° |                  |
| S20   | 24.0            | 12.0 | 2.5  | 25 | Single blade     |
| S2    | 24.0            | 12.0 | 3.0  | 25 | Single blade     |
| S4    | 27.0            | 14.0 | 5.0  | 25 | Single blade     |
| S5A   | 35.0            | 17.0 | 5.5  | 30 | Single blade     |
| S5    | 35.0            | 17.0 | 7.0  | 30 | Single blade     |
| S250  | 43.0            | 20.0 | 10.0 | 15 | Single blade     |
| S7P1  | 43.0            | 20.0 | 7.0  | 30 | Single blade     |
| S9P1  | 65.0            | 38.0 | 12.0 | 15 | Single blade     |
| S7P   | 43.0            | 20.0 | 7.0  | 30 | Single blade     |
| S9P   | 66.0            | 38.0 | 16.0 | 15 | Single blade     |
| S120  | 45.0            | 22.0 | 9.0  | 35 | Standard         |



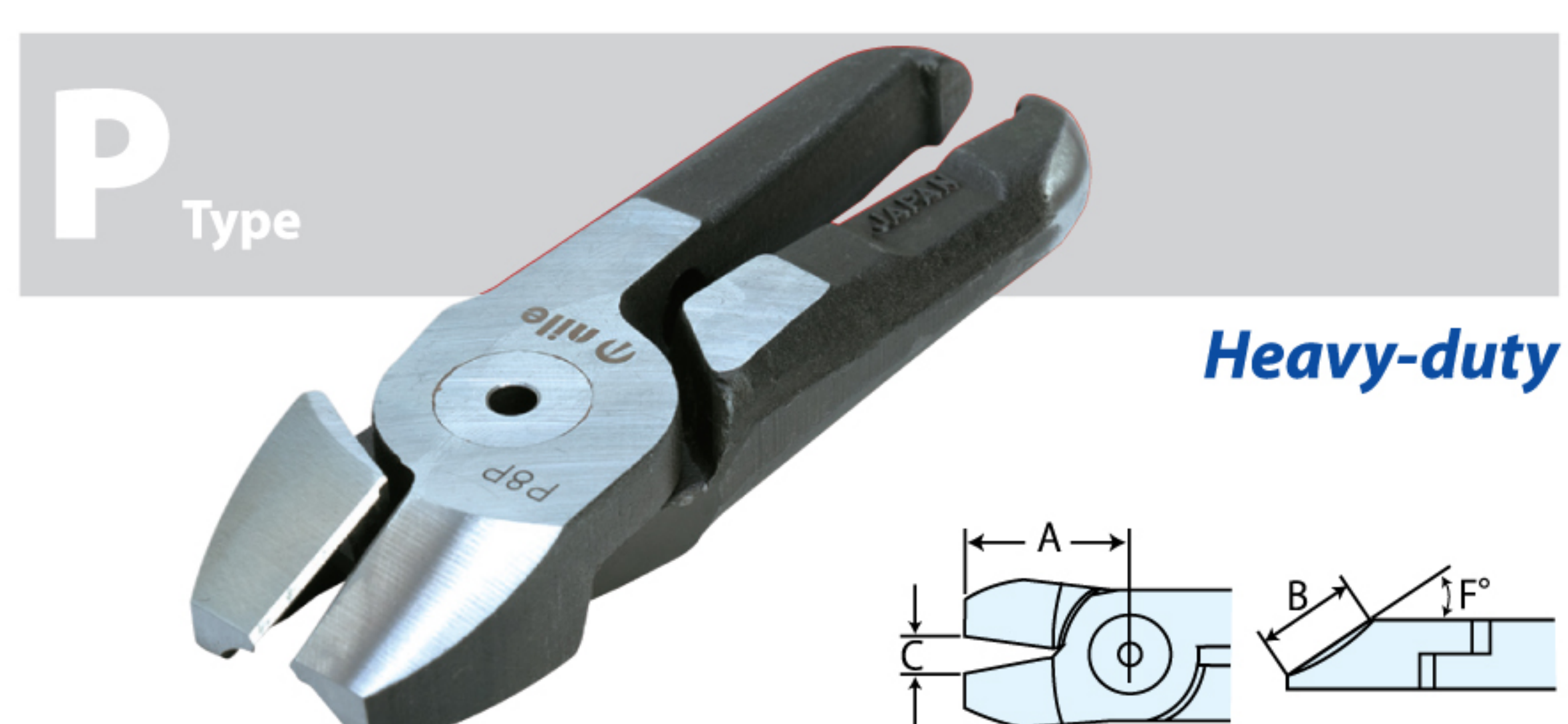
| Model | Dimensions (mm) |      |      | Section of blade |
|-------|-----------------|------|------|------------------|
|       | A               | B    | C    |                  |
| CR20  | 24.0            | 13.0 | 2.5  | Single blade     |
| CR2   | 24.0            | 13.0 | 3.0  | Single blade     |
| CR4   | 27.0            | 12.5 | 4.5  | Single blade     |
| CR6A  | 35.0            | 18.0 | 5.0  | Single blade     |
| CR6   | 35.0            | 18.0 | 7.0  | Single blade     |
| CR250 | 43.0            | 22.0 | 11.0 | Single blade     |
| CR8P1 | 43.0            | 23.0 | 7.0  | Single blade     |
| CR8P  | 43.0            | 23.0 | 7.0  | Single blade     |
| CR120 | 60.0            | 35.0 | 11.0 | Standard         |



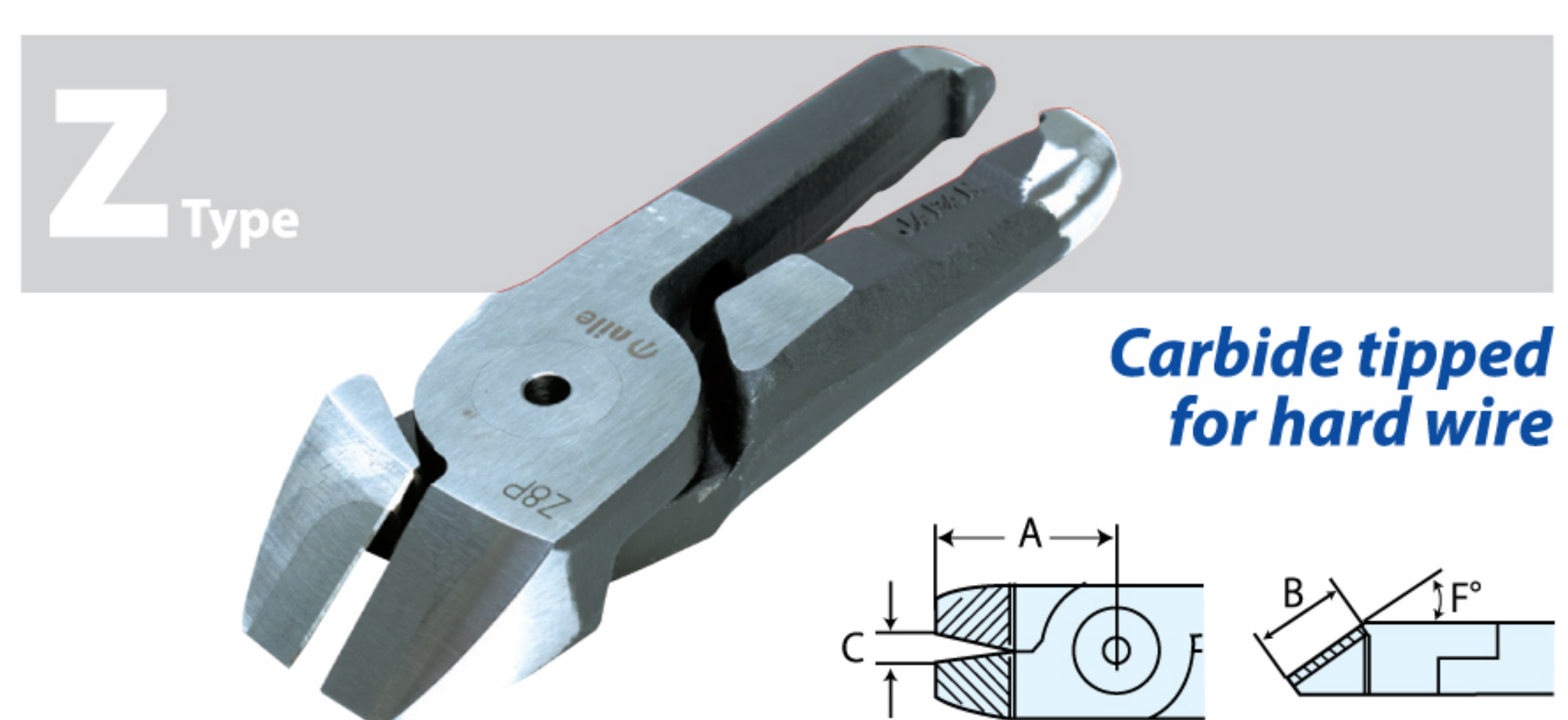
| Model | Dimensions (mm) |      |      | Section of blade |
|-------|-----------------|------|------|------------------|
|       | A               | B    | C    |                  |
| S20S  | 24.0            | 12.0 | 2.5  | Single blade     |
| S2S   | 24.0            | 12.0 | 3.0  | Single blade     |
| S4S   | 27.0            | 13.0 | 5.0  | Single blade     |
| S5AS  | 35.0            | 17.0 | 5.5  | Single blade     |
| S5S   | 35.0            | 17.0 | 7.0  | Single blade     |
| S250S | 43.0            | 23.0 | 10.0 | Single blade     |
| S7P1S | 43.0            | 22.0 | 7.0  | Single blade     |
| S7PS  | 43.0            | 20.0 | 7.0  | Single blade     |
| S9PS  | 66.0            | 37.0 | 16.0 | Single blade     |
| S120S | 55.0            | 30.0 | 10.0 | Standard         |



| Model  | Dimensions (mm) |      |     | Section of blade |
|--------|-----------------|------|-----|------------------|
|        | A               | B    | C   |                  |
| EP20   | 20.0            | 7.0  | 2.0 | Standard         |
| EP2    | 20.0            | 7.0  | 2.5 | Standard         |
| EP4    | 26.0            | 9.0  | 4.5 | Standard         |
| EP6A   | 28.0            | 12.0 | 4.5 | Standard         |
| EP6    | 28.0            | 12.0 | 5.5 | Standard         |
| EP10P1 | 34.0            | 17.0 | 5.5 | Standard         |
| EP10P  | 34.0            | 17.0 | 5.5 | Standard         |
| EP120  | 40.0            | 25.0 | 8.0 | Standard         |



| Model | Dimensions (mm) |      |     |    | Section of blade |
|-------|-----------------|------|-----|----|------------------|
|       | A               | B    | C   | F° |                  |
| P6A   | 29.0            | 12.0 | 4.5 | 35 | Single blade     |
| P6    | 29.0            | 11.0 | 6.0 | 35 | Standard         |
| P8P1  | 37.0            | 12.0 | 5.0 | 25 | Standard         |
| P8P1S | 37.0            | 15.0 | 5.0 | —  | Standard         |
| P8P   | 37.0            | 12.0 | 6.0 | 25 | Standard         |
| P8PS  | 37.0            | 12.0 | 6.0 | —  | Standard         |
| P120  | 40.0            | 16.0 | 8.0 | 35 | Standard         |

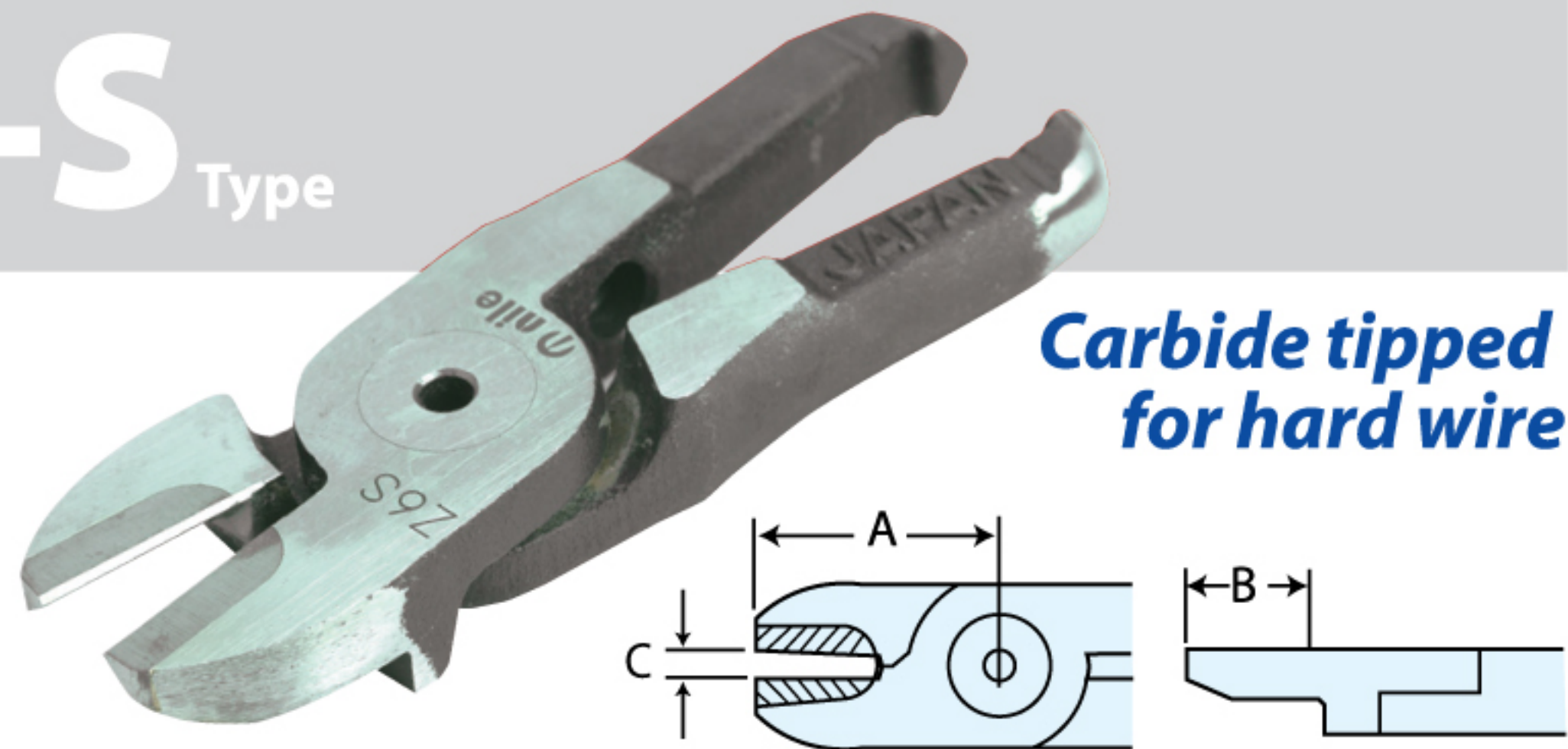


| Model | Dimensions (mm) |      |     |    | Section of blade |
|-------|-----------------|------|-----|----|------------------|
|       | A               | B    | C   | F° |                  |
| Z20   | 24.0            | 11.0 | 2.5 | 25 | Single blade     |
| Z2    | 24.0            | 11.0 | 3.0 | 25 | Single blade     |
| Z4    | 27.0            | 10.0 | 5.0 | 25 | Single blade     |
| Z6A   | 30.0            | 15.0 | 5.0 | 35 | Standard         |
| Z6    | 30.0            | 15.0 | 6.0 | 35 | Standard         |
| Z8P1  | 38.0            | 20.0 | 5.0 | 40 | Standard         |
| ZS7P  | 43.0            | 20.0 | 7.0 | 30 | Standard         |
| Z8P   | 38.0            | 20.0 | 6.0 | 40 | Standard         |
| Z120  | 40.0            | 17.0 | 7.0 | 35 | Standard         |



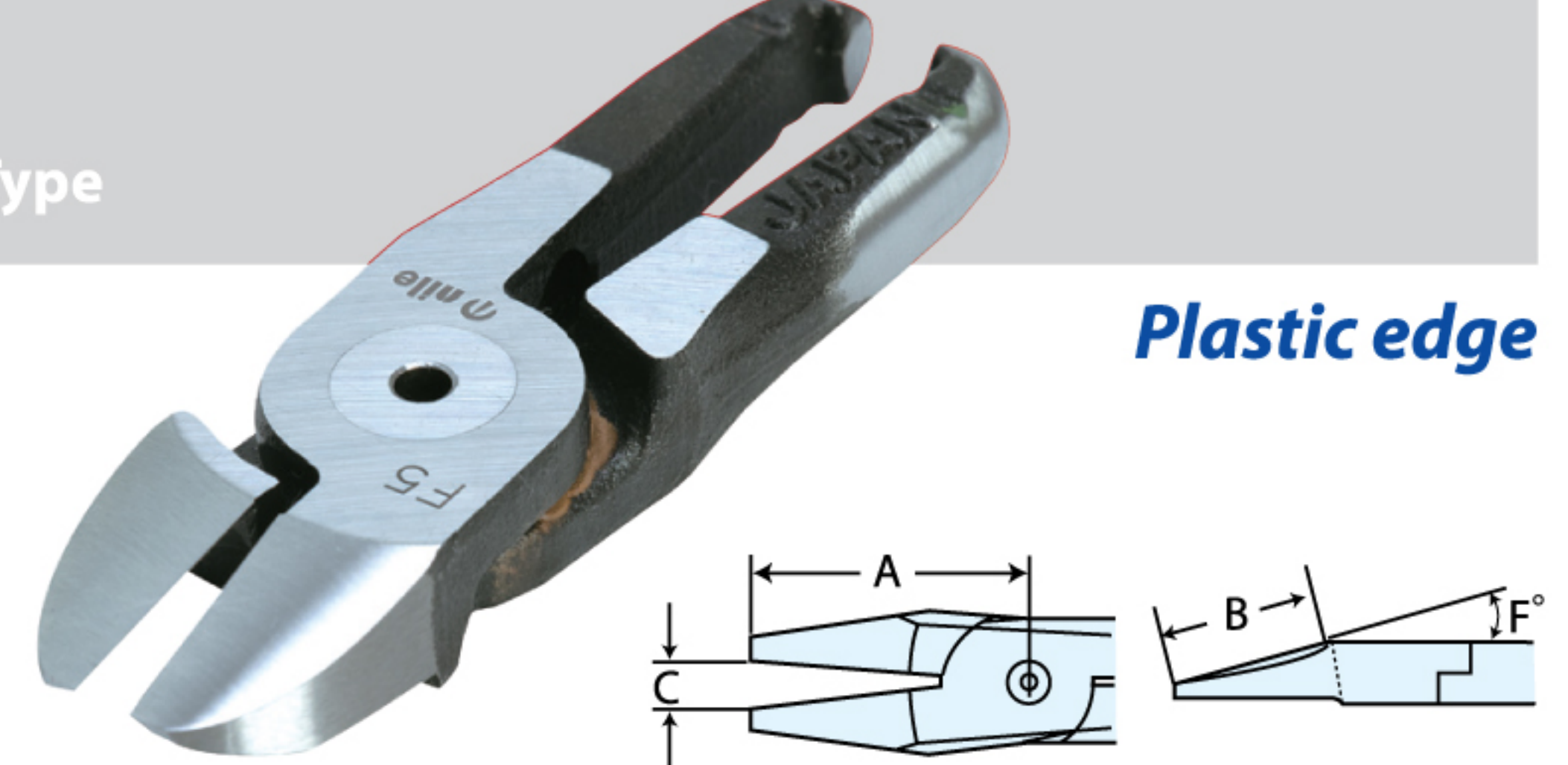
# Cut Blade

## Z-S Type



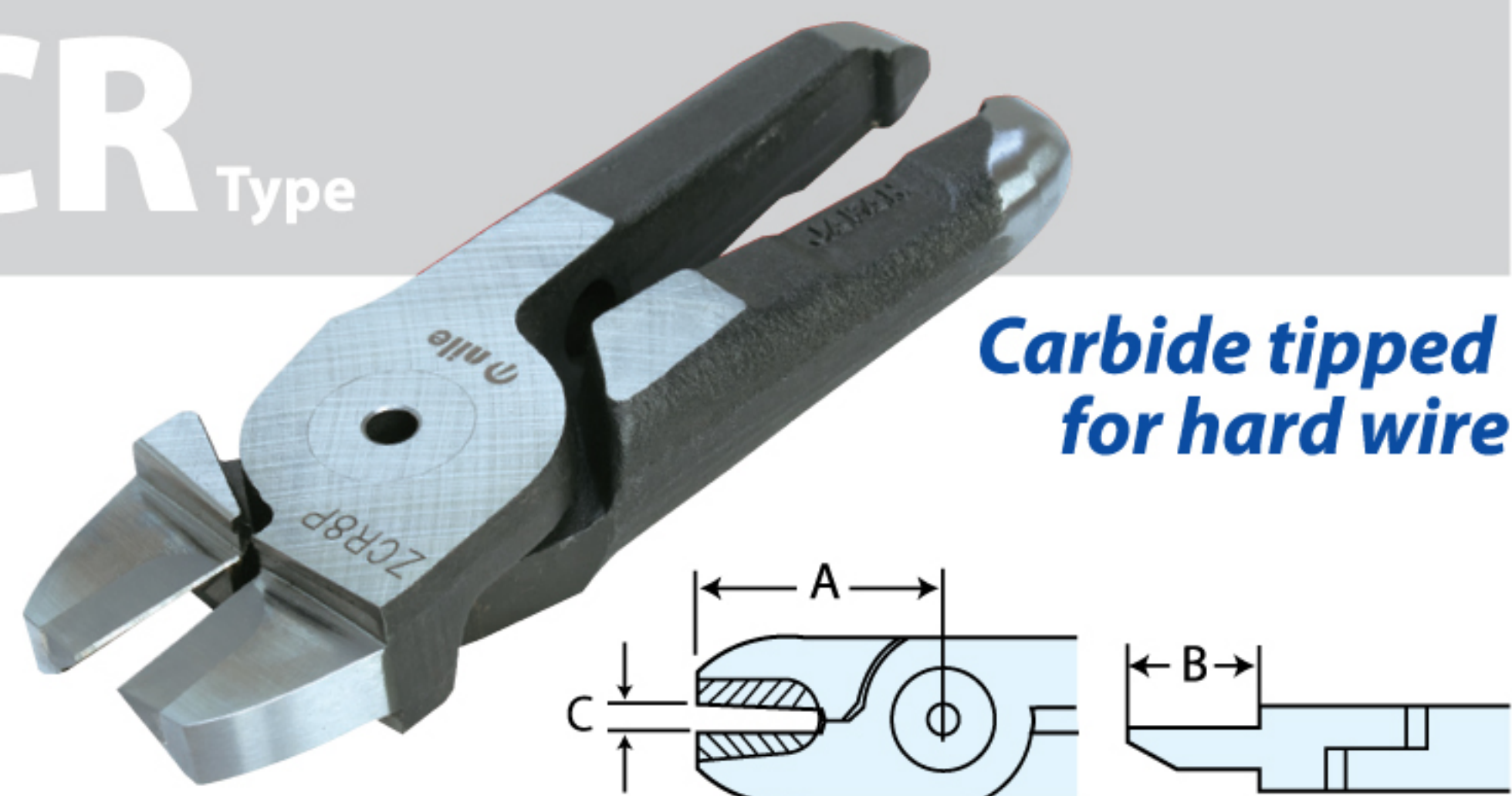
| Model | Dimensions (mm) |      |     | Section of blade |
|-------|-----------------|------|-----|------------------|
|       | A               | B    | C   |                  |
| Z20S  | 24.0            | 11.0 | 2.5 | Single blade     |
| Z2S   | 24.0            | 11.0 | 3.0 | Single blade     |
| ZT7S  | 27.0            | 11.0 | 3.5 | Single blade     |
| Z4S   | 27.0            | 11.0 | 5.0 | Single blade     |
| Z6AS  | 34.0            | 16.0 | 6.0 | Standard         |
| Z6JS  | 34.0            | 16.0 | 5.0 | Standard         |
| Z6S   | 34.0            | 16.0 | 7.0 | Standard         |
| ZS7PS | 43.0            | 17.0 | 7.0 | Standard         |
| Z8PS  | 40.0            | 20.0 | 7.0 | Standard         |
| Z120S | 40.0            | 17.0 | 7.0 | Standard         |

## F Type



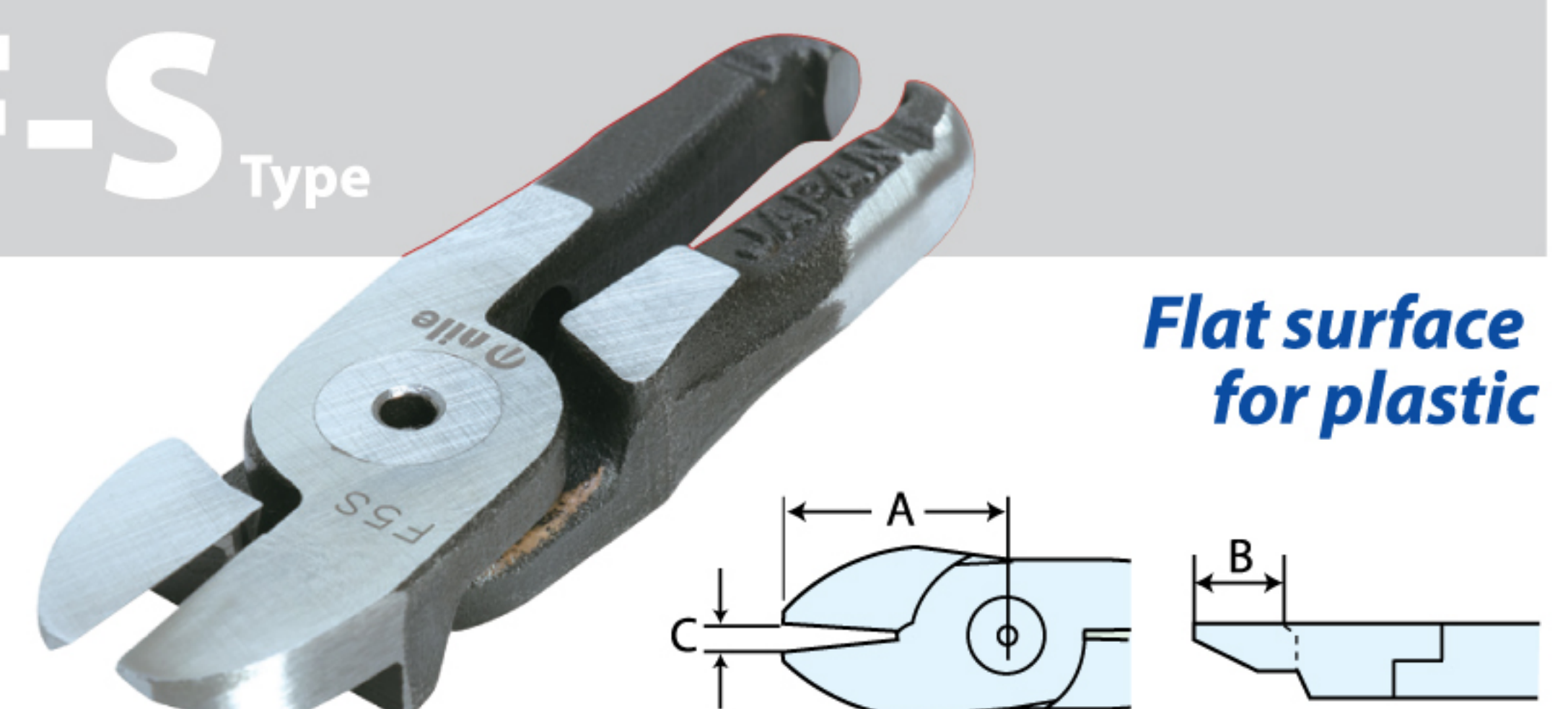
| Model | Dimensions (mm) |      |      |    | Section of blade      |
|-------|-----------------|------|------|----|-----------------------|
|       | A               | B    | C    | F° |                       |
| F10   | 24.0            | 12.0 | 2.5  | 15 | Full-flush round type |
| F1    | 24.0            | 12.0 | 3.0  | 15 | Full-flush round type |
| FT7   | 27.0            | 12.0 | 3.5  | 25 | Full-flush round type |
| F3    | 27.0            | 12.0 | 5.0  | 25 | Full-flush round type |
| F5A   | 35.0            | 15.0 | 5.5  | 15 | Full-flush round type |
| F5J   | 34.0            | 15.0 | 5.0  | 15 | Full-flush round type |
| F5    | 35.0            | 15.0 | 8.5  | 15 | Full-flush round type |
| F250  | 43.0            | 22.0 | 13.0 | 15 | Full-flush round type |
| F9P1  | 66.0            | 38.0 | 10.5 | 15 | Full-flush round type |
| F9P   | 66.0            | 38.0 | 16.0 | 15 | Full-flush round type |
| F9PF  | 66.0            | 38.0 | 30.0 | 15 | Full-flush round type |
| F120  | 53.0            | 35.0 | 12.0 | 30 | Full-flush round type |

## ZCR Type



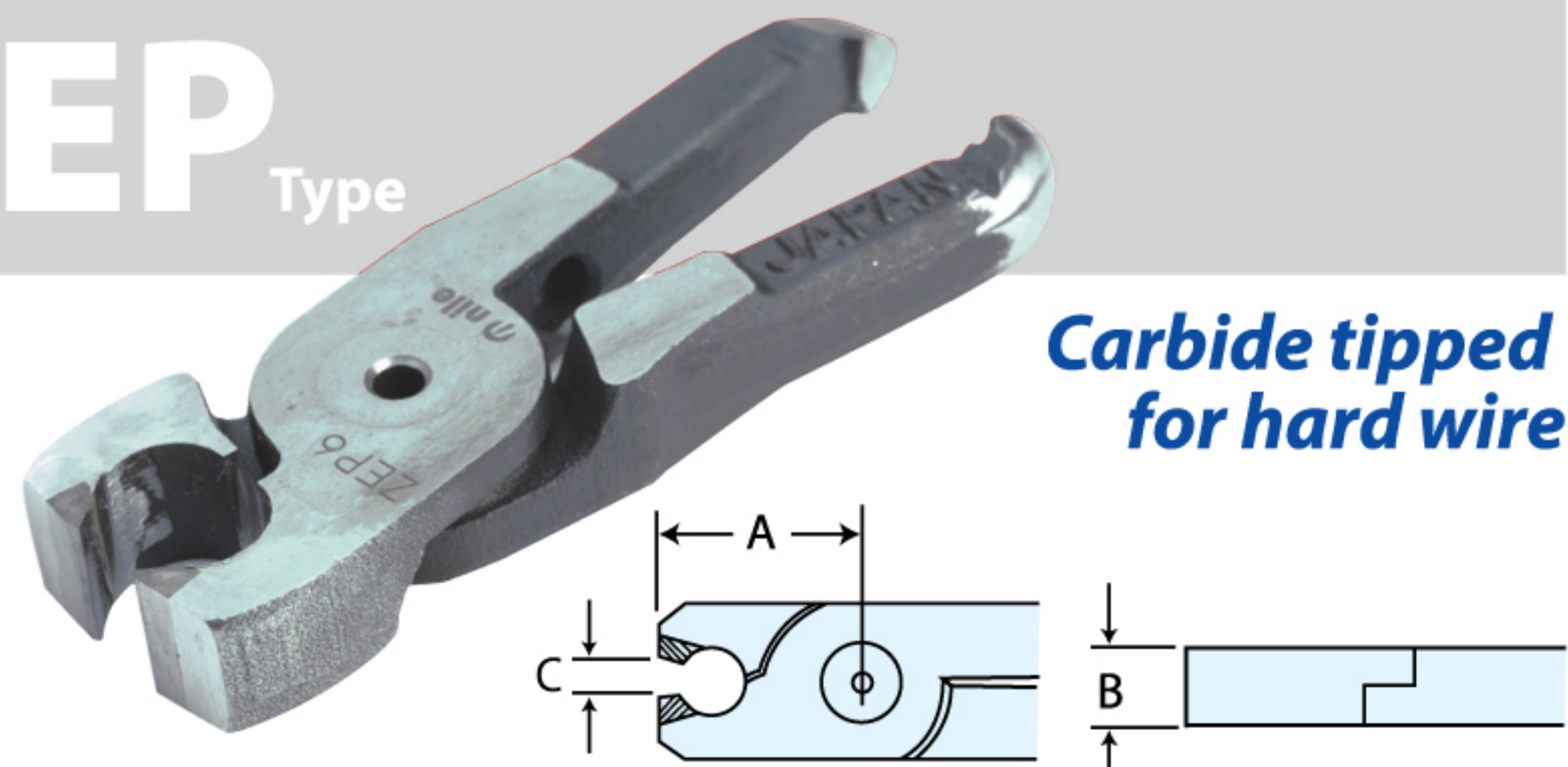
| Model  | Dimensions (mm) |      |     | Section of blade |
|--------|-----------------|------|-----|------------------|
|        | A               | B    | C   |                  |
| ZCR20  | 24.0            | 10.0 | 2.5 | Single blade     |
| ZCR2   | 24.0            | 10.0 | 3.0 | Single blade     |
| ZCR7   | 26.0            | 10.0 | 3.5 | Single blade     |
| ZCR4   | 27.0            | 10.0 | 5.0 | Single blade     |
| ZCR6A  | 35.0            | 16.0 | 7.0 | Standard         |
| ZCR6J  | 35.0            | 16.0 | 5.0 | Standard         |
| ZCR6   | 35.0            | 16.0 | 7.0 | Standard         |
| ZCR8P1 | 38.0            | 16.0 | 6.0 | Standard         |
| ZCR8P  | 38.0            | 16.0 | 7.0 | Standard         |
| ZCR120 | 40.0            | 16.0 | 7.0 | Standard         |

## F-S Type



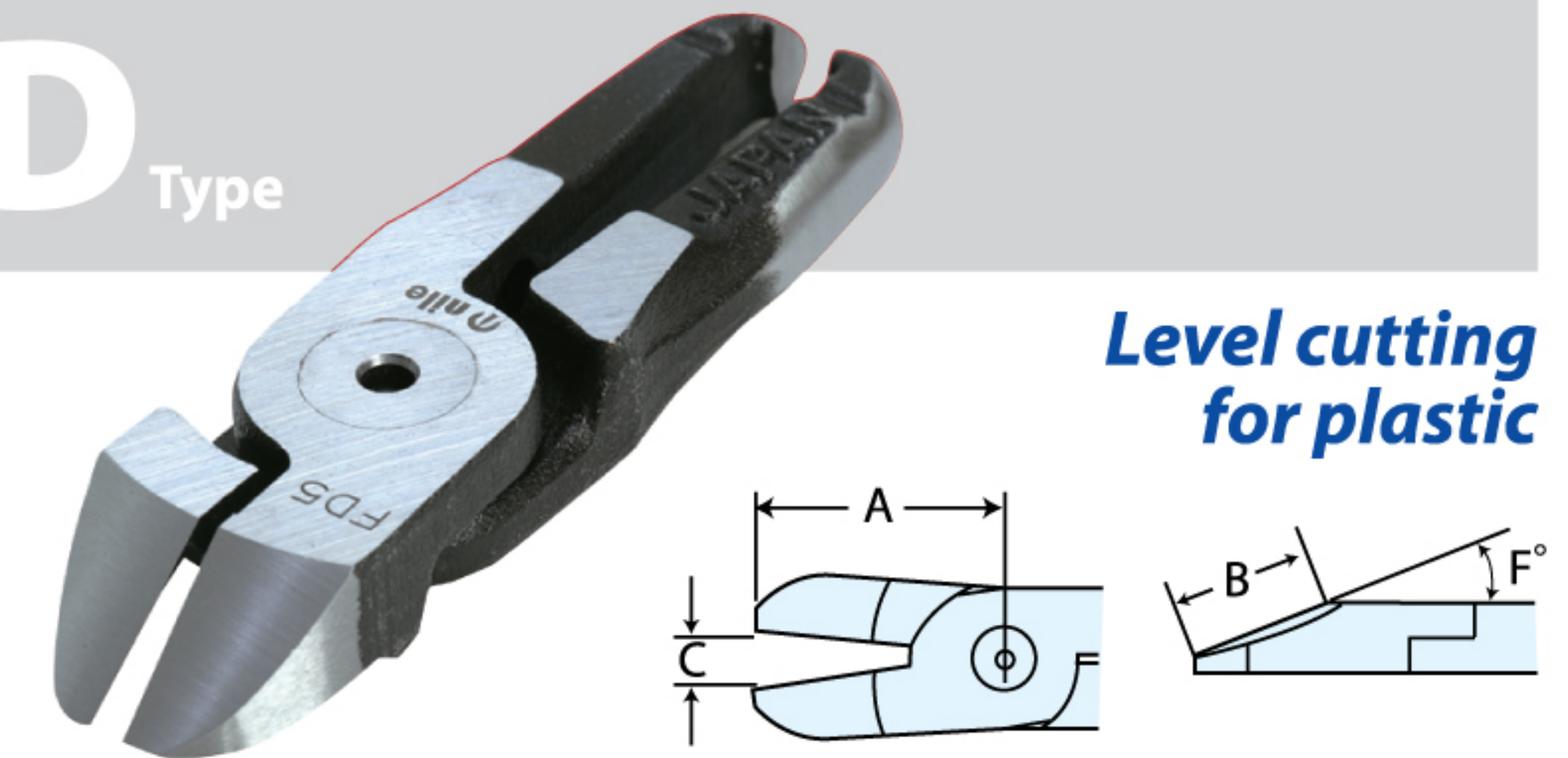
| Model | Dimensions (mm) |      |      | Section of blade     |
|-------|-----------------|------|------|----------------------|
|       | A               | B    | C    |                      |
| F10S  | 24.0            | 12.0 | 2.5  | Full-flush flat type |
| F1S   | 24.0            | 12.0 | 3.0  | Full-flush flat type |
| FT7S  | 27.0            | 12.0 | 3.5  | Full-flush flat type |
| F3S   | 27.0            | 12.0 | 5.0  | Full-flush flat type |
| 3LS   | 50.0            | 30.0 | 8.0  | Full-flush flat type |
| F5AS  | 35.0            | 16.0 | 5.5  | Full-flush flat type |
| F5JS  | 35.0            | 17.0 | 5.0  | Full-flush flat type |
| F5S   | 35.0            | 16.0 | 8.5  | Full-flush flat type |
| F5LS  | 65.0            | 37.0 | 15.0 | Full-flush flat type |
| F250S | 43.0            | 23.0 | 13.0 | Full-flush flat type |
| F9P1S | 66.0            | 39.0 | 10.5 | Full-flush flat type |
| F9PS  | 66.0            | 37.0 | 16.0 | Full-flush flat type |

## ZEP Type



| Model   | Dimensions (mm) |      |     | Section of blade |
|---------|-----------------|------|-----|------------------|
|         | A               | B    | C   |                  |
| ZEP20   | 20.0            | 7.0  | 2.0 | Standard         |
| ZEP2    | 20.0            | 7.0  | 2.5 | Standard         |
| ZEP7    | 26.0            | 9.0  | 3.0 | Standard         |
| ZEP4    | 26.0            | 9.0  | 4.5 | Standard         |
| ZEP6A   | 28.0            | 12.0 | 5.0 | Standard         |
| ZEP6J   | 28.0            | 12.0 | 4.0 | Standard         |
| ZEP6    | 28.0            | 12.0 | 6.0 | Standard         |
| ZEP10P1 | 34.0            | 17.0 | 5.5 | Standard         |
| ZEP10P  | 34.0            | 17.0 | 5.5 | Standard         |
| ZEP120  | 40.0            | 25.0 | 8.0 | Standard         |

## FD Type

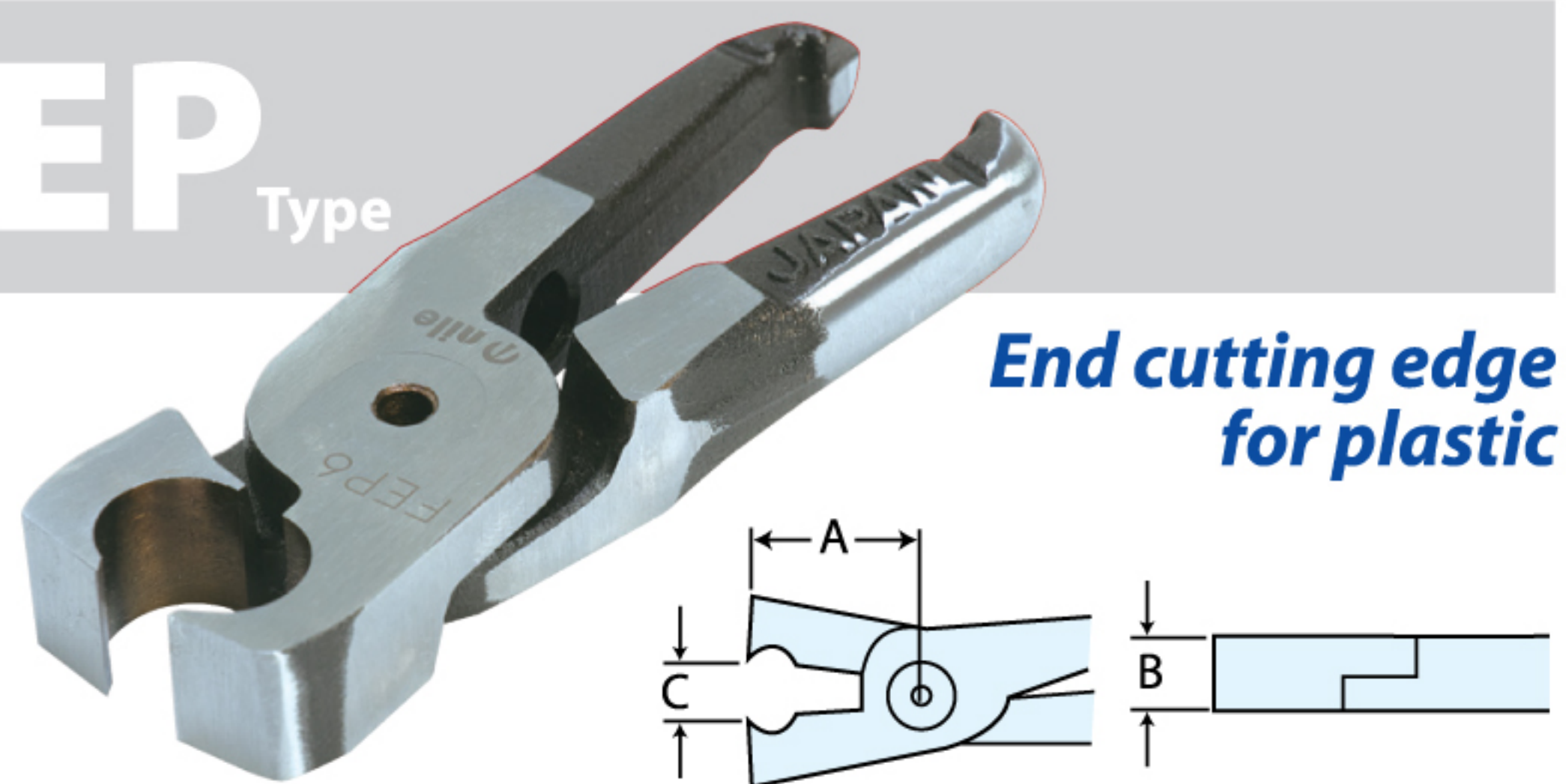


| Model | Dimensions (mm) |      |      |    | Section of blade      |
|-------|-----------------|------|------|----|-----------------------|
|       | A               | B    | C    | F° |                       |
| FD10  | 24.0            | 10.0 | 2.5  | 40 | Full-flush round type |
| FD1   | 24.0            | 10.0 | 3.0  | 40 | Full-flush round type |
| FD7   | 27.0            | 10.0 | 3.5  | 40 | Full-flush round type |
| FD3   | 27.0            | 10.0 | 4.5  | 40 | Full-flush round type |
| FD5A  | 35.0            | 14.0 | 5.5  | 40 | Full-flush round type |
| FD5J  | 34.0            | 14.0 | 5.0  | 40 | Full-flush round type |
| FD5   | 35.0            | 14.0 | 8.5  | 40 | Full-flush round type |
| FD250 | 43.0            | 15.0 | 13.0 | 40 | Full-flush round type |
| FD9P1 | 59.0            | 27.0 | 9.0  | 30 | Full-flush round type |
| FD9P  | 59.0            | 27.0 | 14.0 | 30 | Full-flush round type |
| FD9PF | 59.0            | 27.0 | 26.0 | 30 | Full-flush round type |



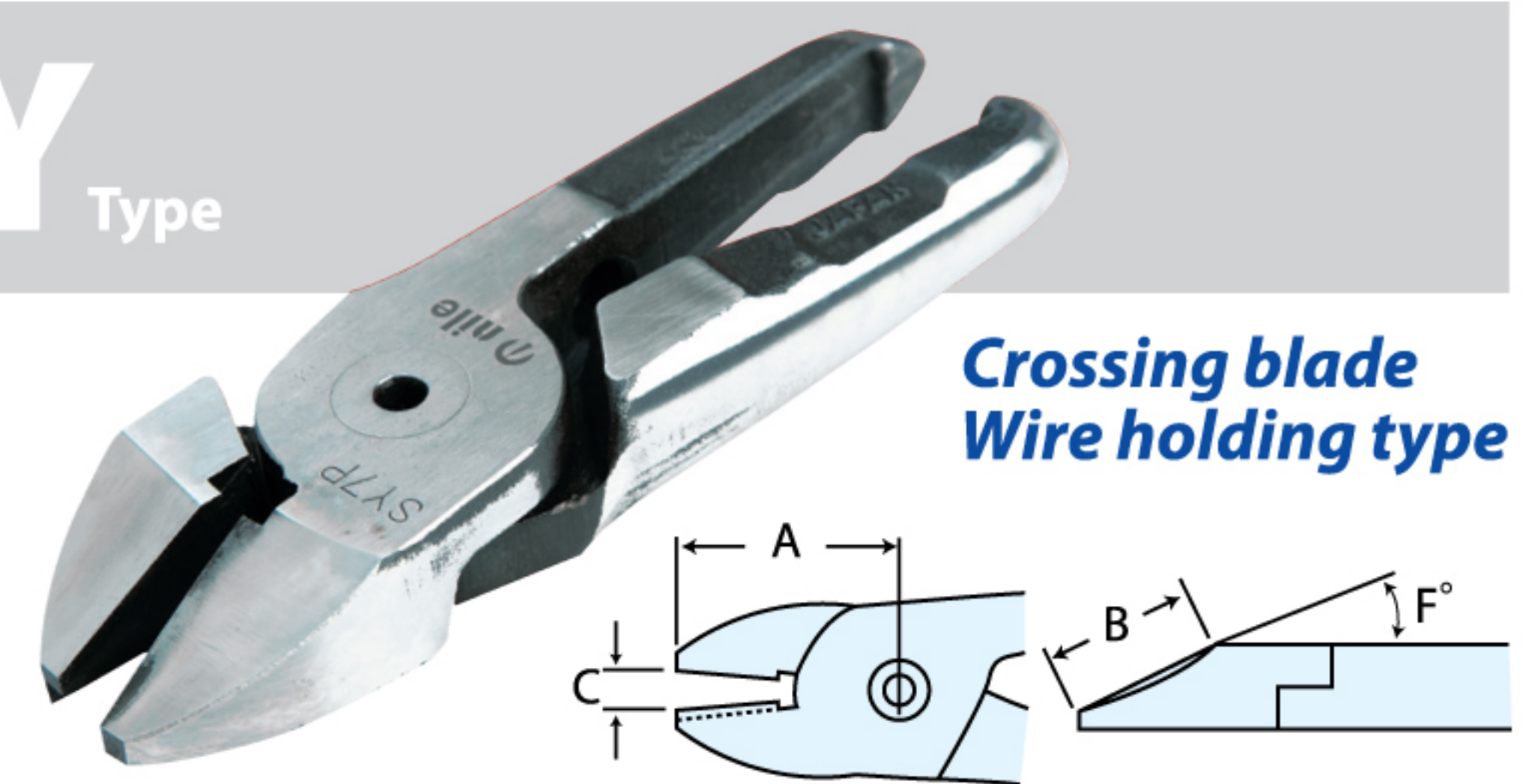
# Cut Blade

## FEP Type



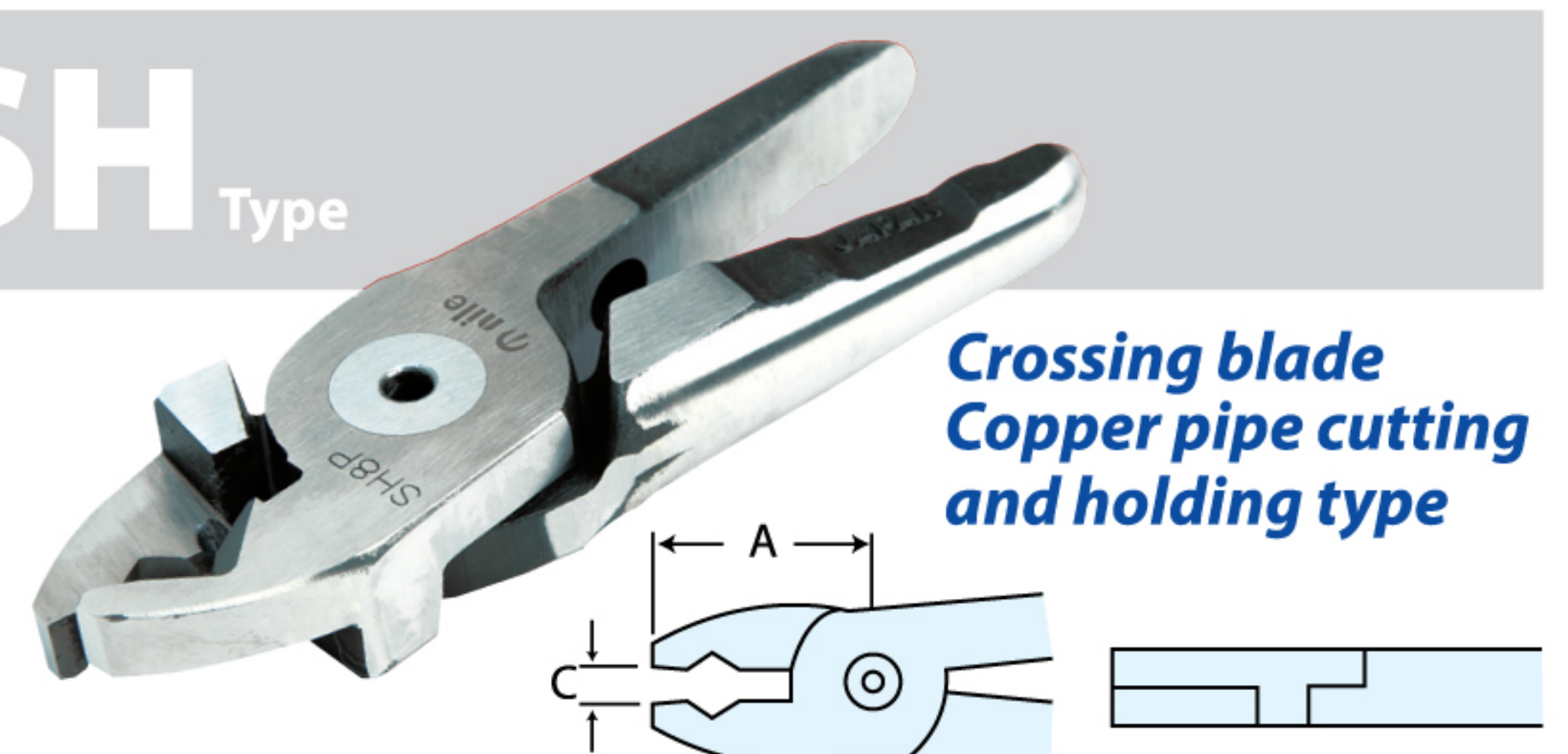
| Model   | Dimensions (mm) |      |     | Section of blade      |
|---------|-----------------|------|-----|-----------------------|
|         | A               | B    | C   |                       |
| FEP20   | 20.0            | 7.0  | 2.0 | Full-flush round type |
| FEP2    | 20.0            | 7.0  | 2.5 | Full-flush round type |
| FEP7    | 26.0            | 9.0  | 3.0 | Full-flush round type |
| FEP4    | 26.0            | 9.0  | 4.5 | Full-flush round type |
| FEP6A   | 28.0            | 12.0 | 4.0 | Full-flush round type |
| FEP6    | 28.0            | 12.0 | 8.5 | Full-flush round type |
| FEP10P1 | 33.0            | 17.0 | 6.0 | Full-flush round type |
| FEP10P  | 34.0            | 17.0 | 8.0 | Full-flush round type |

## SY Type



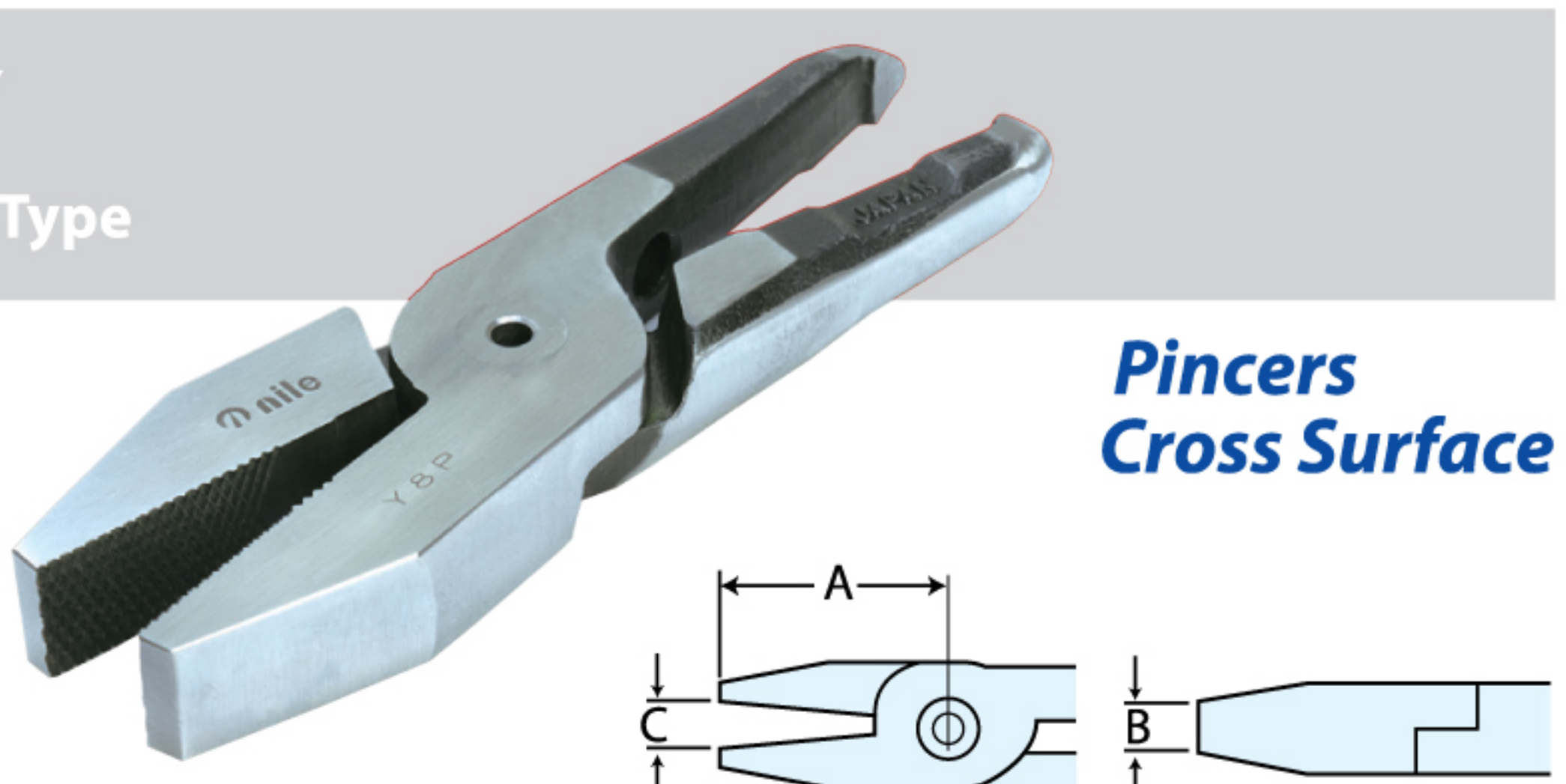
| Model | Dimensions (mm) |      |     |    | Section of blade |
|-------|-----------------|------|-----|----|------------------|
|       | A               | B    | C   | F° |                  |
| SY7P  | 43.0            | 18.0 | 8.0 | 30 | others           |

## SH Type



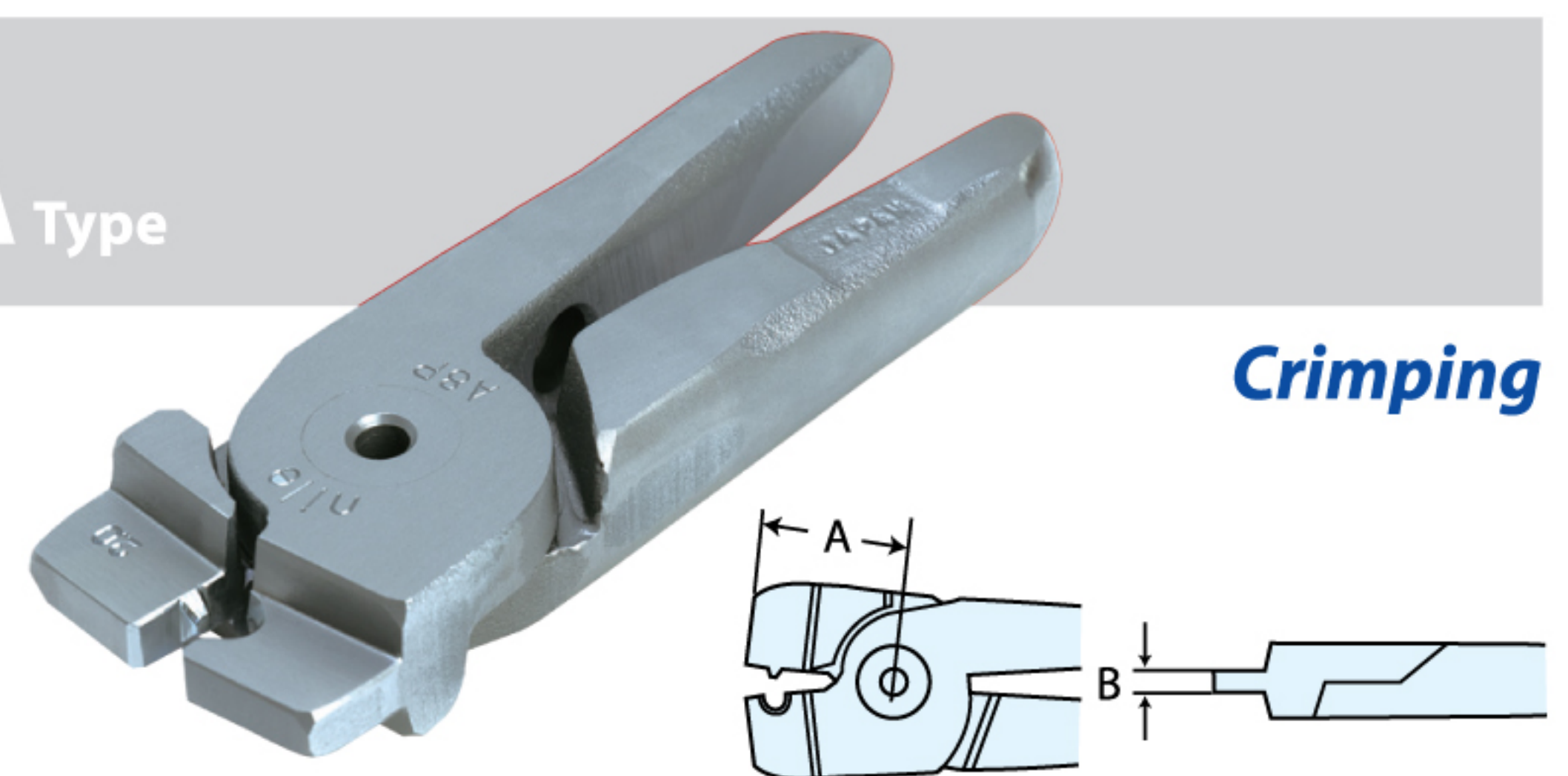
| Model | Dimensions (mm) |   |     |    | Section of blade |
|-------|-----------------|---|-----|----|------------------|
|       | A               | B | C   | F° |                  |
| SH8P  | 43.0            | — | 7.0 | —  | others           |

## Y Type



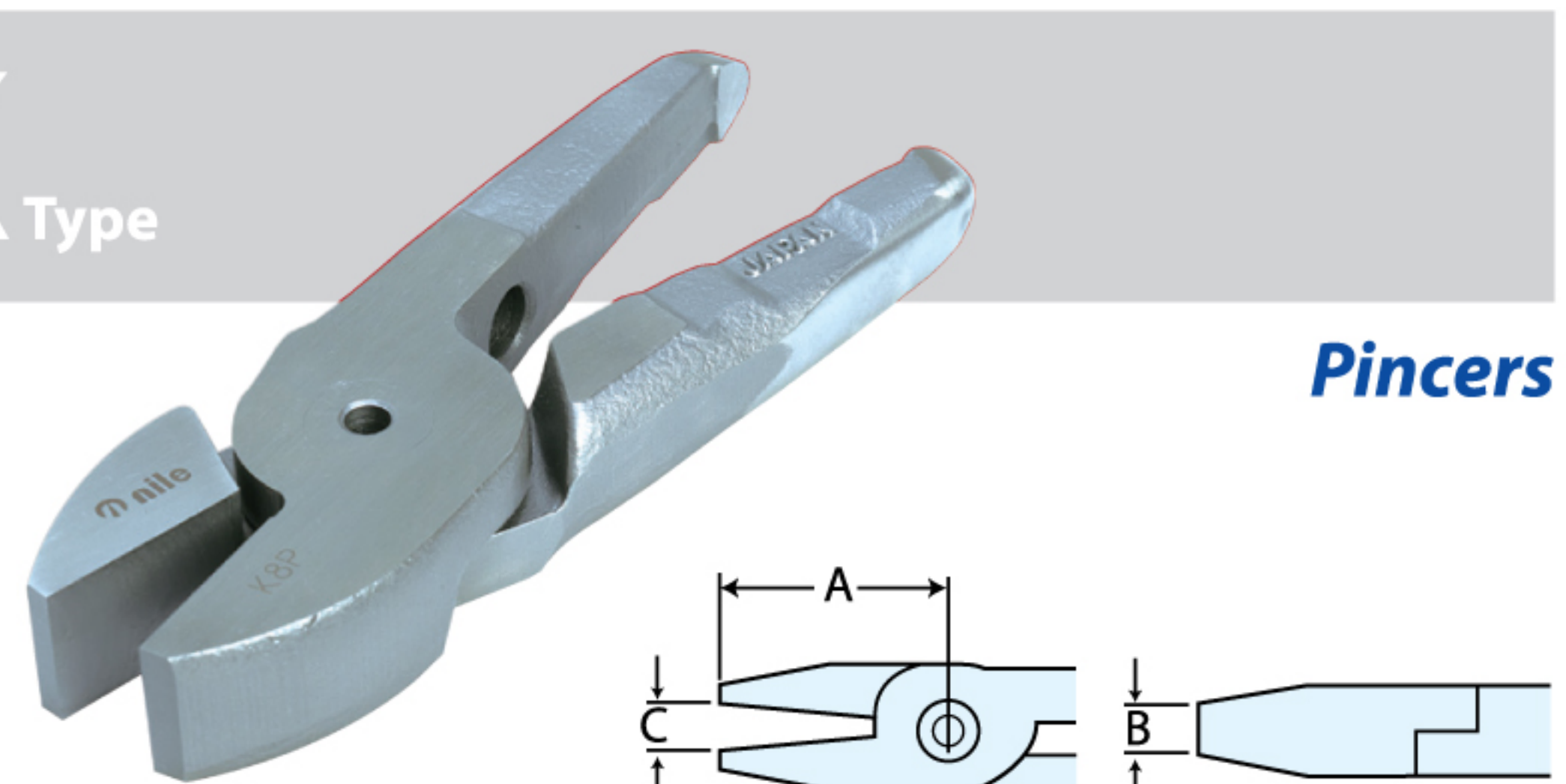
| Model | Dimensions (mm) |      |      |
|-------|-----------------|------|------|
|       | A               | B    | C    |
| Y20   | 24.0            | 7.0  | 2.5  |
| Y2    | 24.0            | 7.0  | 3.0  |
| YT7   | 27.0            | 9.0  | 4.0  |
| Y4    | 27.0            | 9.0  | 5.0  |
| Y6A   | 47.0            | 6.0  | 9.0  |
| Y6J   | 47.0            | 6.0  | 6.0  |
| Y6    | 47.0            | 6.0  | 10.0 |
| Y250  | 45.0            | 12.0 | 14.0 |
| Y8P1  | 70.0            | 17.0 | 12.5 |
| Y8P   | 70.0            | 17.0 | 16.0 |
| Y817P | 65.0            | 17.0 | 16.0 |
| Y120  | 60.0            | 25.0 | 13.0 |

## A Type



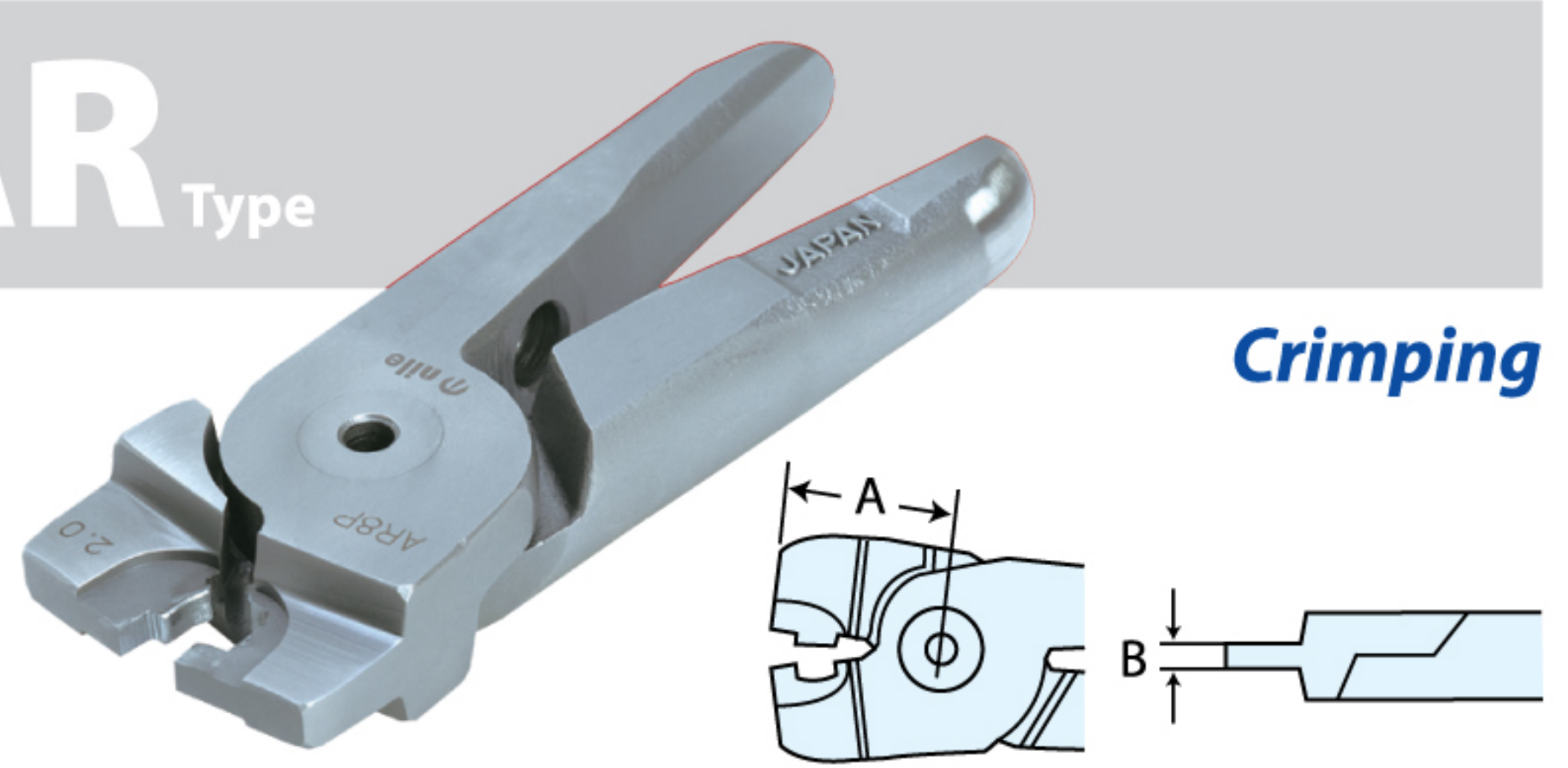
| Model         | Dimensions (mm) |     |
|---------------|-----------------|-----|
|               | A               | B   |
| A8P1-1.25     | 30.0            | 5.8 |
| A8P1-2.0      | 30.0            | 5.8 |
| A8P-1.25      | 30.0            | 5.8 |
| A8P-2.0       | 30.0            | 5.8 |
| A8P-5.5       | 32.0            | 5.8 |
| A8WP-1.25-2.0 | 39.5            | 5.8 |
| A8WP-2.0-5.5  | 39.0            | 6.0 |

## K Type



| Model | Dimensions (mm) |      |      |
|-------|-----------------|------|------|
|       | A               | B    | C    |
| K6A   | 35.0            | 12.0 | 5.5  |
| K6J   | 35.0            | 12.0 | 5.0  |
| K6    | 35.0            | 12.0 | 7.0  |
| K8P1  | 43.0            | 17.0 | 7.0  |
| K8P   | 43.0            | 17.0 | 10.0 |

## AR Type



| Model          | Dimensions (mm) |     |
|----------------|-----------------|-----|
|                | A               | B   |
| AR8P1-1.25     | 31.5            | 6.5 |
| AR8P1-2.0      | 32.5            | 6.5 |
| AR8P-1.25      | 31.5            | 6.5 |
| AR8P-2.0       | 32.5            | 7.0 |
| AR8P-5.5       | 34.5            | 6.5 |
| AR8WP-1.25-2.0 | 38.5            | 6.5 |
| AR8WP-2.0-5.5  | 40.0            | 6.5 |

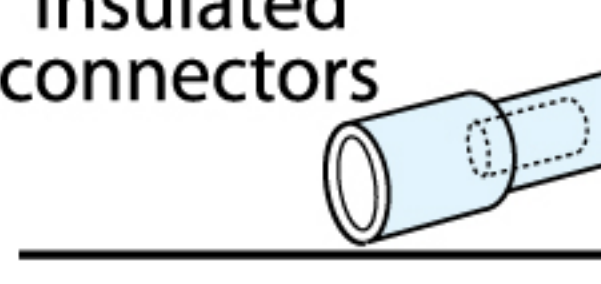


## Cutting capacity List

| Model  | For copper wire |       | For steel wire  |       | For soft plastics |       | For piano wire  |       |
|--------|-----------------|-------|-----------------|-------|-------------------|-------|-----------------|-------|
|        | Diameter (φ mm) | Blade | Diameter (φ mm) | Blade | Diameter (φ mm)   | Blade | Diameter (φ mm) | Blade |
| MR3    | 0.8             | S20   | —               | —     | 1.0               | F10   | —               | —     |
| MR5    | 1.0             | S2    | —               | —     | 2.0               | F1    | 0.3             | Z2    |
| MR10   | 1.6             | S4    | 1.0             | S4    | 4.0               | F3    | 0.5             | Z4    |
| MR20   | 2.6             | S5    | 2.0             | P6    | 7.0               | F5    | 1.0             | Z6    |
| MP25   | —               | —     | —               | —     | 8.0               | F250  | —               | —     |
| MP25A  | 2.6             | S5    | 2.0             | P6    | —                 | —     | —               | —     |
| MR30A  | 3.3             | S7P   | 2.8             | P8P   | 10.0              | F9P   | 1.2             | Z8P   |
| MP250  | 4.0             | S7P1  | 3.2             | P8P1  | —                 | —     | —               | —     |
| MP35A  | 4.8             | S7P   | 4.0             | P8P   | 13.0              | F9P   | —               | —     |
| MR50FK | —               | —     | —               | —     | 12.0              | F9PF  | —               | —     |
| MR50AK | 5.5             | P120  | 4.5             | P120  | —                 | —     | 1.6             | Z120  |
| MP55AK | 7.0             | P120  | 6.0             | P120  | —                 | —     | 2.0             | Z120  |

| Model  | For stainless wire |       | ※ For hard plastics |       |
|--------|--------------------|-------|---------------------|-------|
|        | Diameter (φ mm)    | Blade | Diameter (φ mm)     | Blade |
| MR3    | —                  | —     | —                   | —     |
| MR5    | —                  | —     | 1.0                 | F1    |
| MR10   | —                  | —     | 2.6                 | F3    |
| MR20   | 1.6                | P6    | 5.0                 | F5    |
| MP25   | —                  | —     | —                   | —     |
| MP25A  | 1.6                | P6    | —                   | —     |
| MR30A  | 2.0                | P8P   | 6.5                 | F9P   |
| MP250  | 2.3                | P8P1  | —                   | —     |
| MP35A  | 2.8                | P8P   | —                   | —     |
| MR50FK | —                  | —     | —                   | —     |
| MR50AK | 3.5                | Z120  | —                   | —     |
| MP55AK | 4.3                | Z120  | —                   | —     |

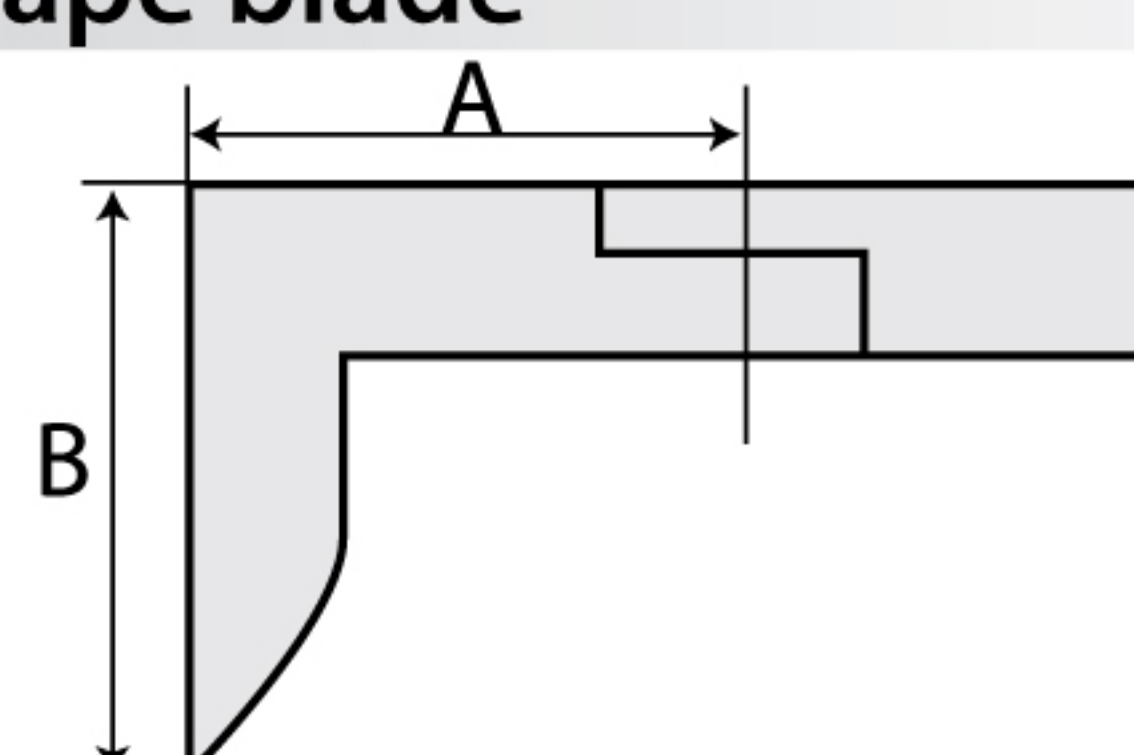
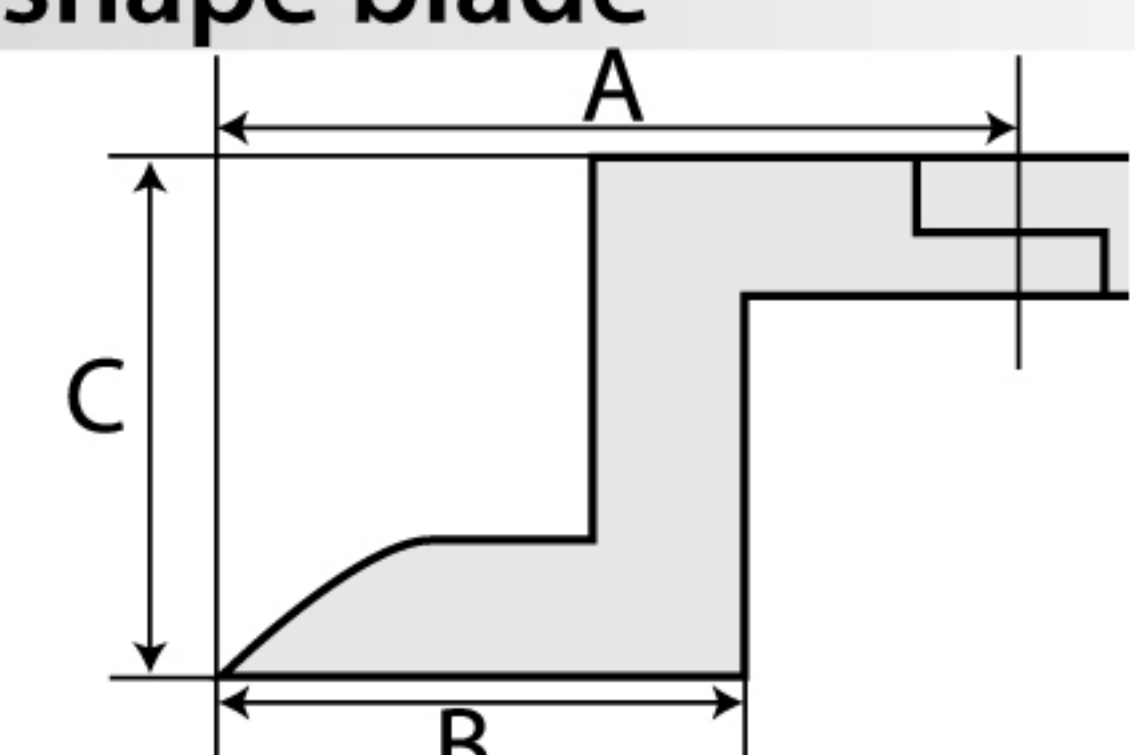
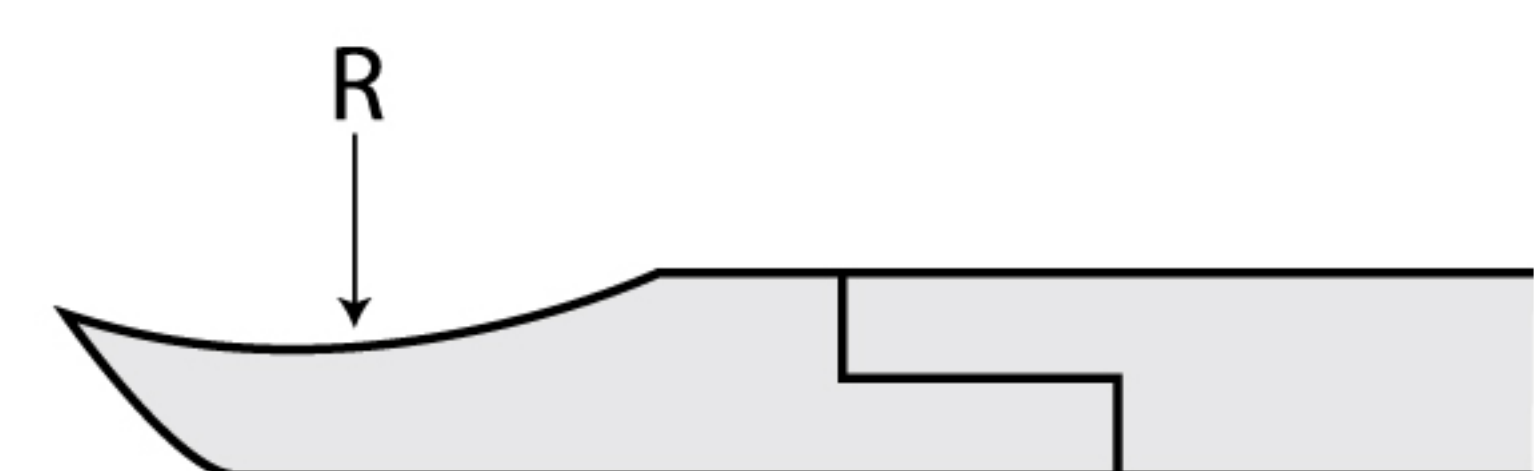
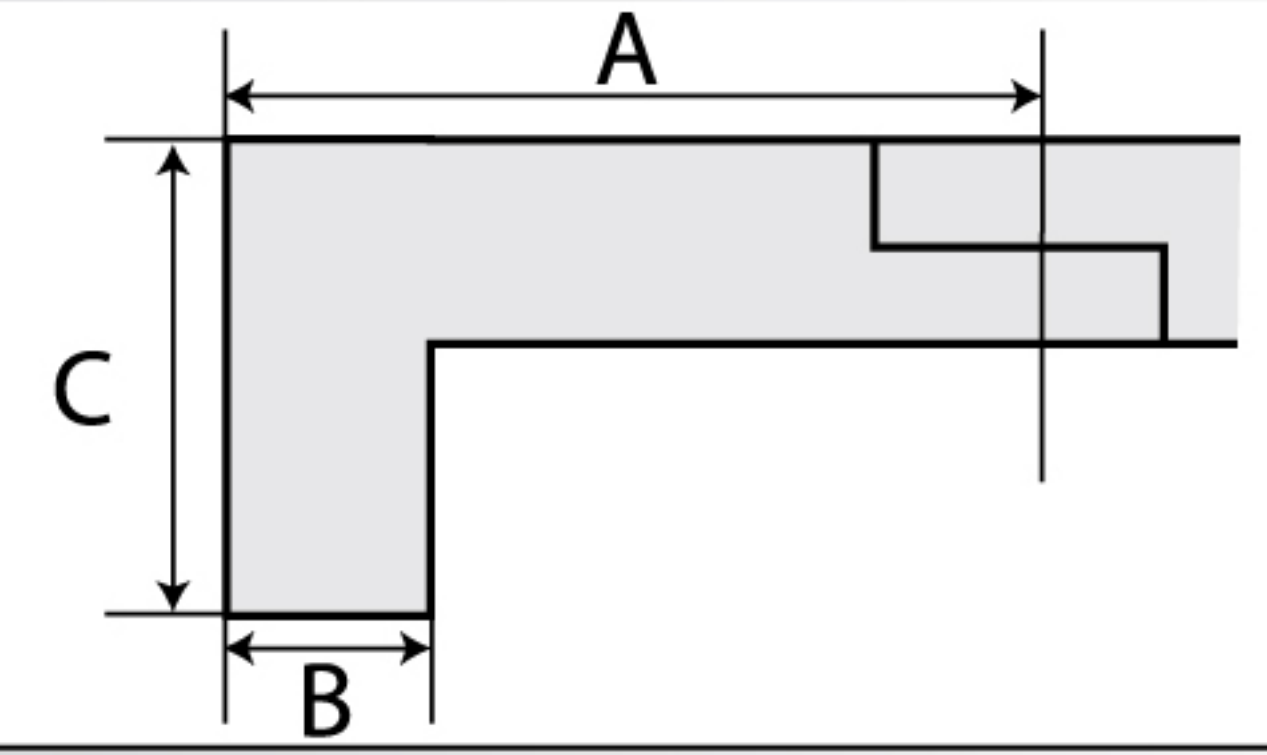
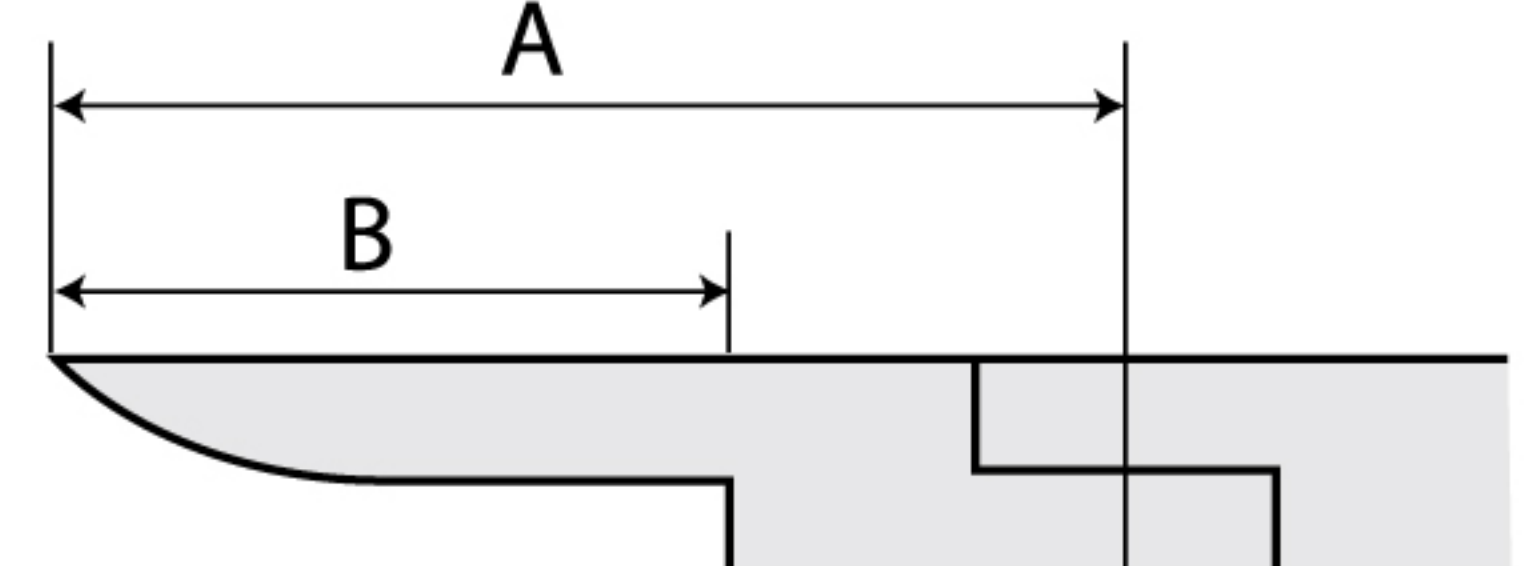
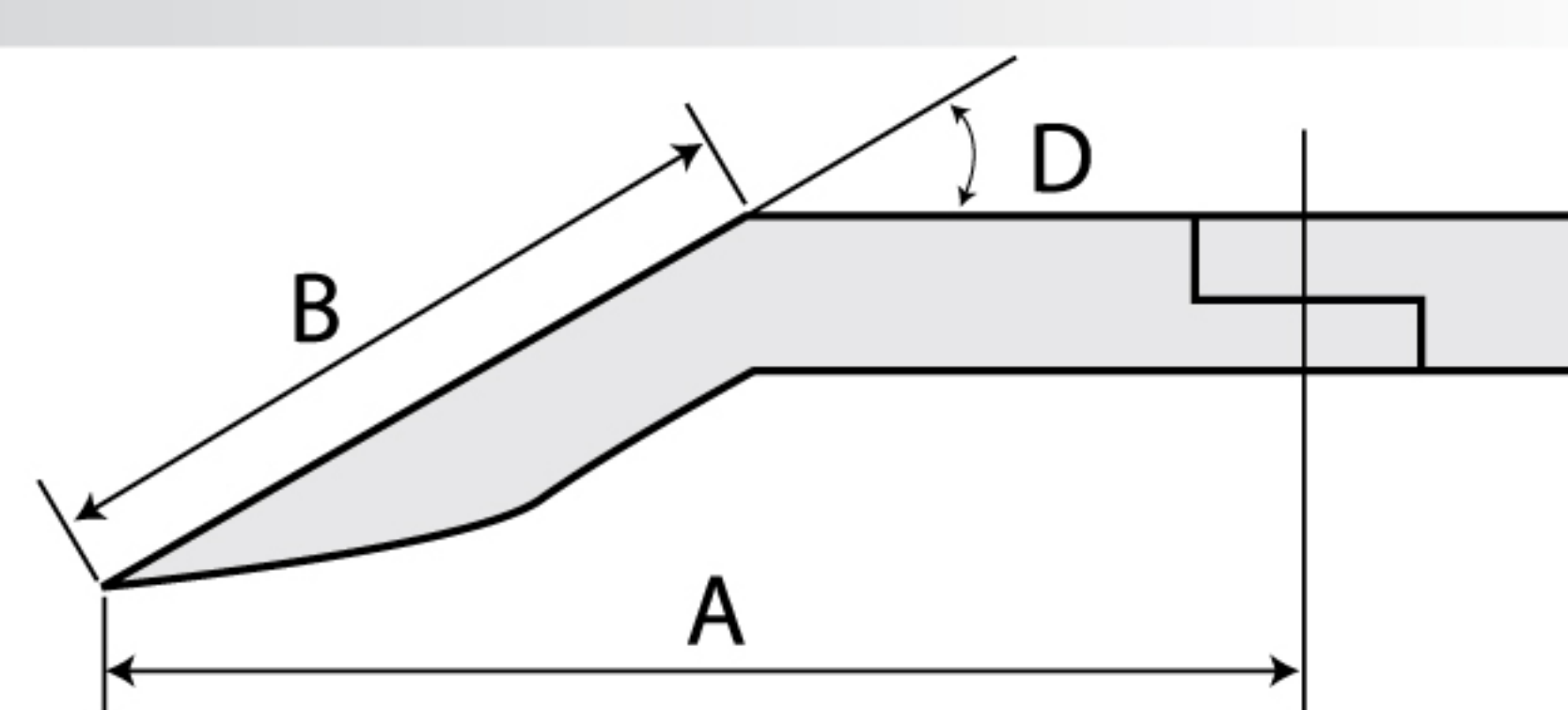
※ Bakelite, polyacetal acrylic resin etc.

| Shape of terminals                                                                                            | Size (sq) | Model&Blade     |
|---------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| <br>Ring terminals       | 1.25      | MR30A/A8P-1.25  |
|                                                                                                               | 2.0       | MR30A/A8P-2.0   |
|                                                                                                               | 5.5       | MP35A/A8P-5.5   |
| <br>Insulated connectors | 1.25      | MR30A/AR8P-1.25 |
|                                                                                                               | 2.0       | MR30A/AR8P-2.0  |
|                                                                                                               | 5.5       | MP35A/AR8P-5.5  |

## Special Blade

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

|                                                                                                                      |                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>1 "L" shape blade</b><br>      | <b>2 Crank shape blade</b><br>           |
| <b>3 Radius cutting blade</b><br> | <b>4 "L" Shape end cutting blade</b><br> |
| <b>5 Long nose blade</b><br>      | <b>※</b><br>                             |

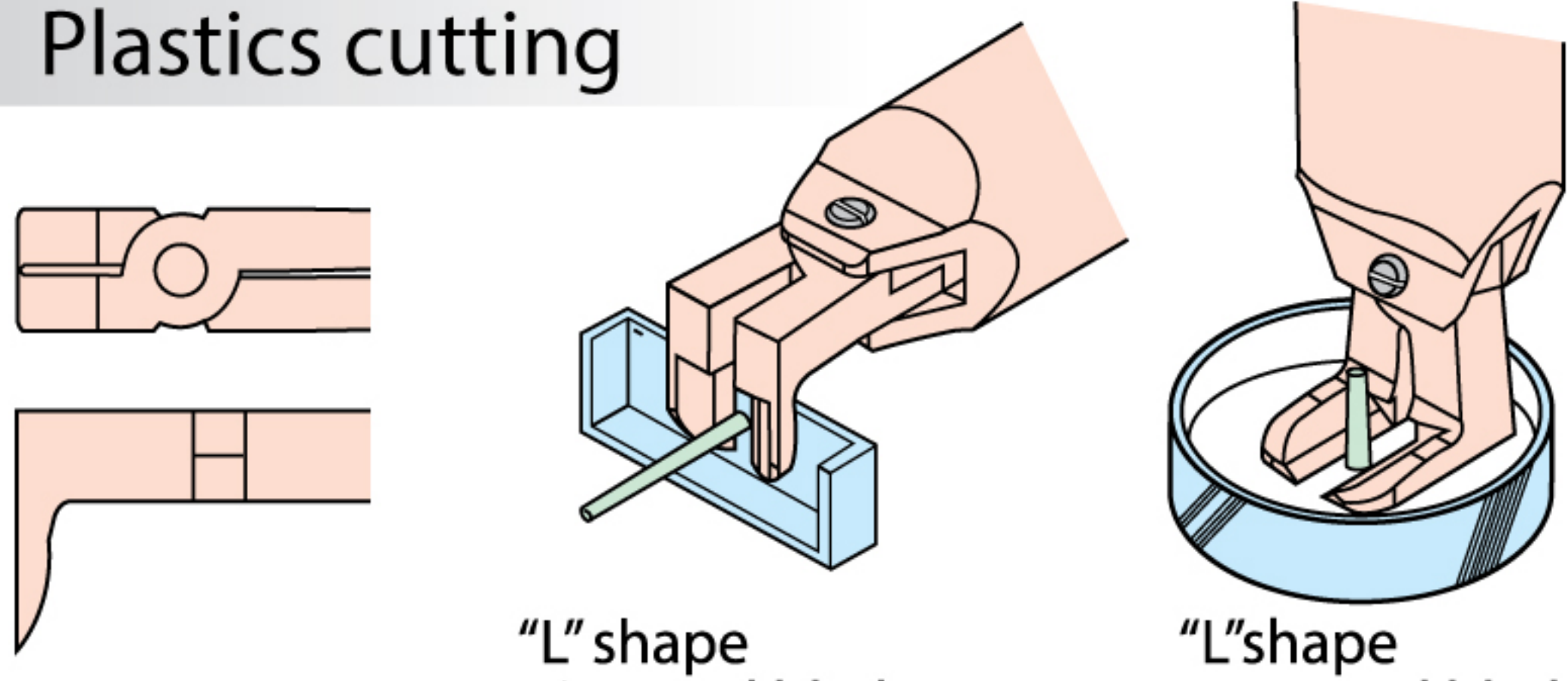
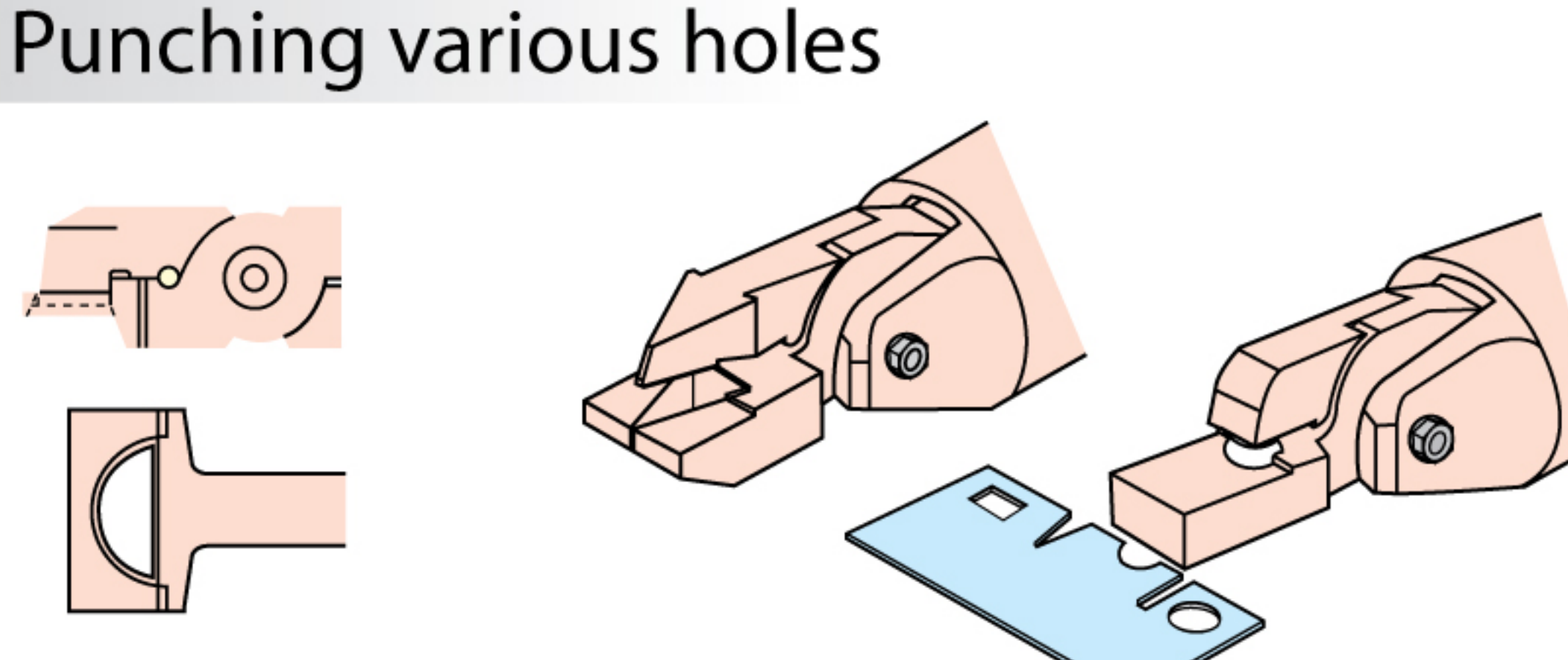
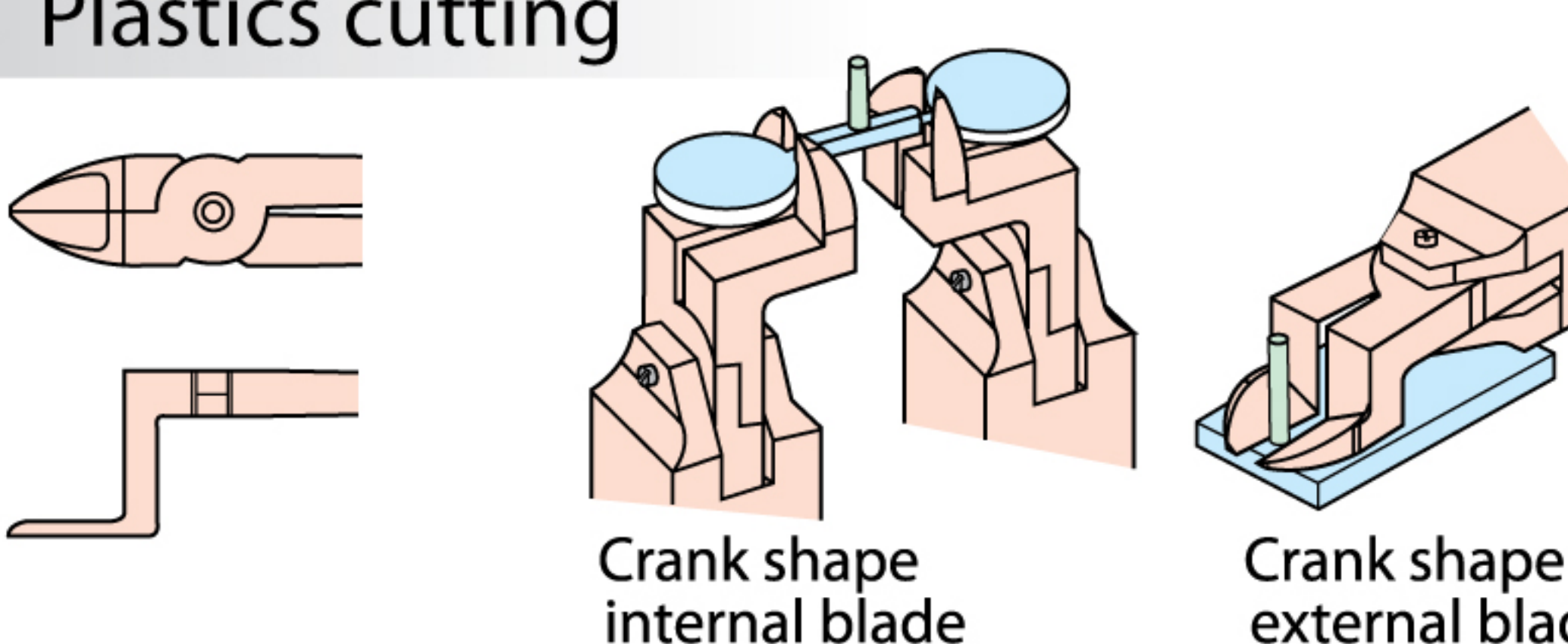
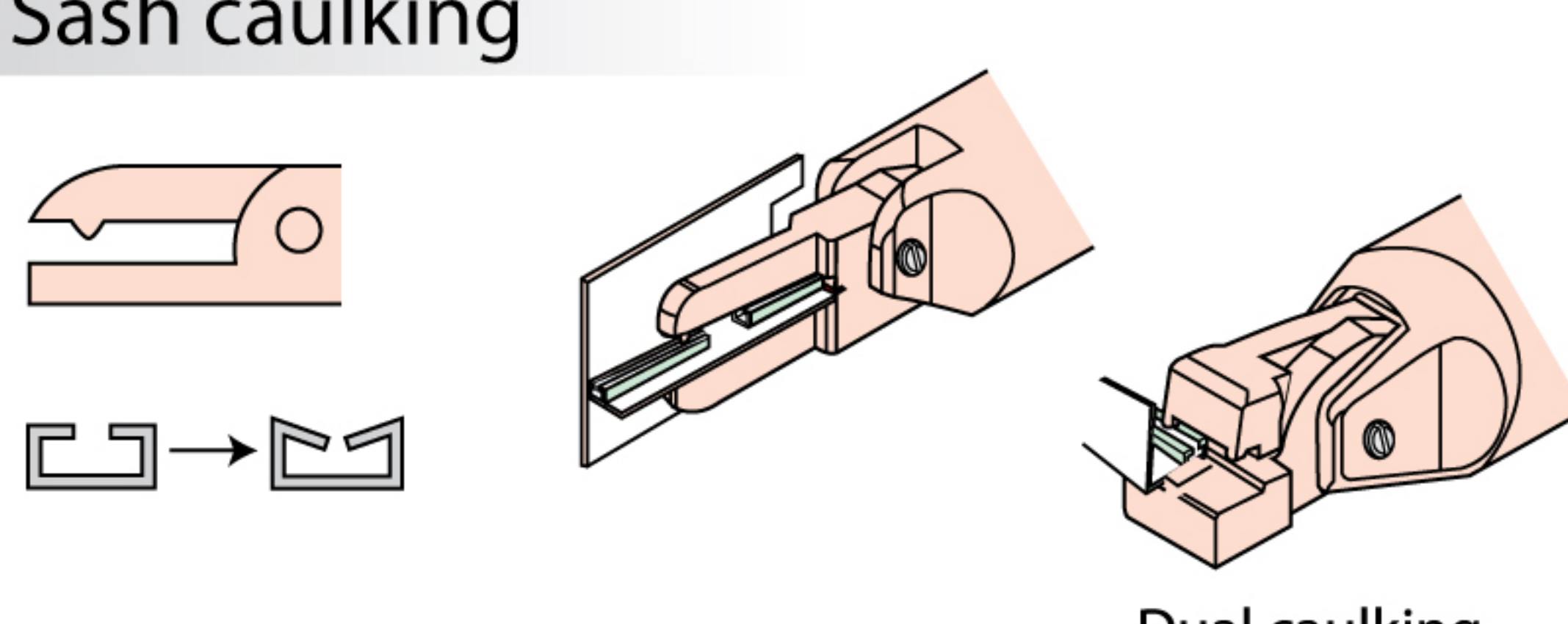
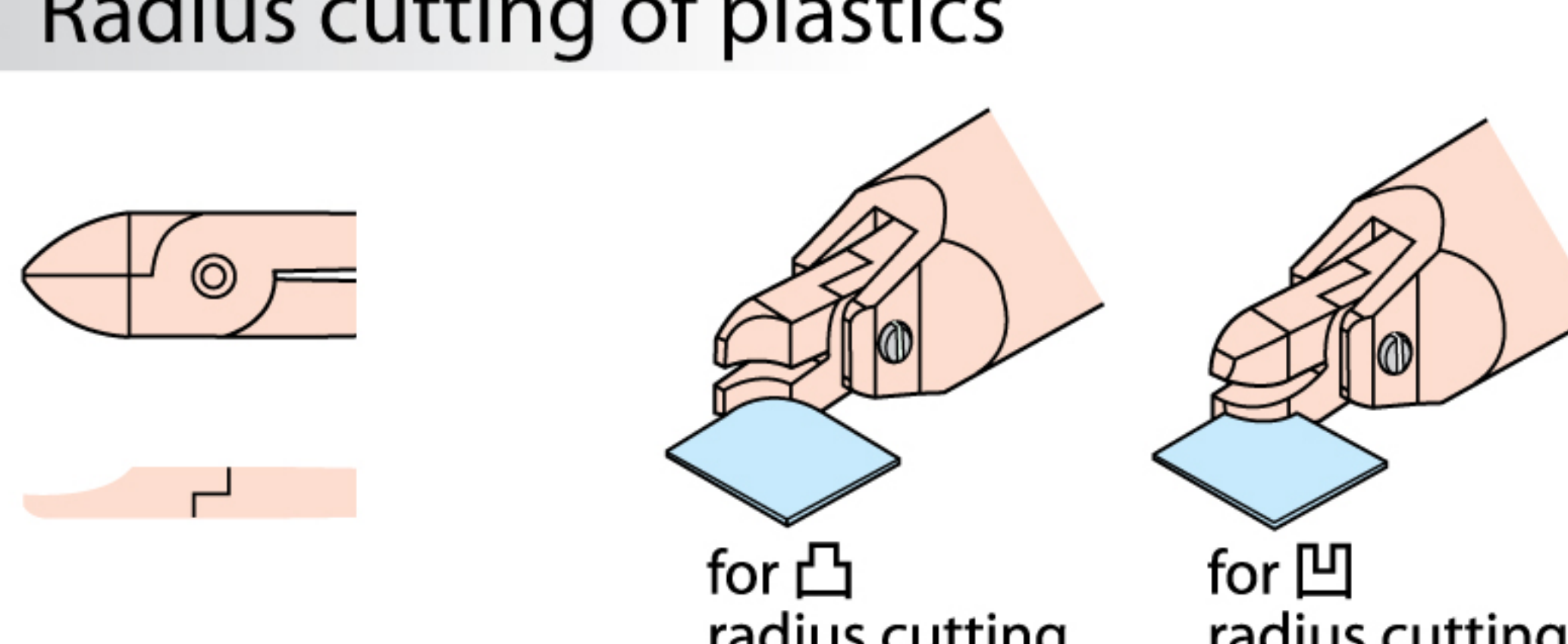
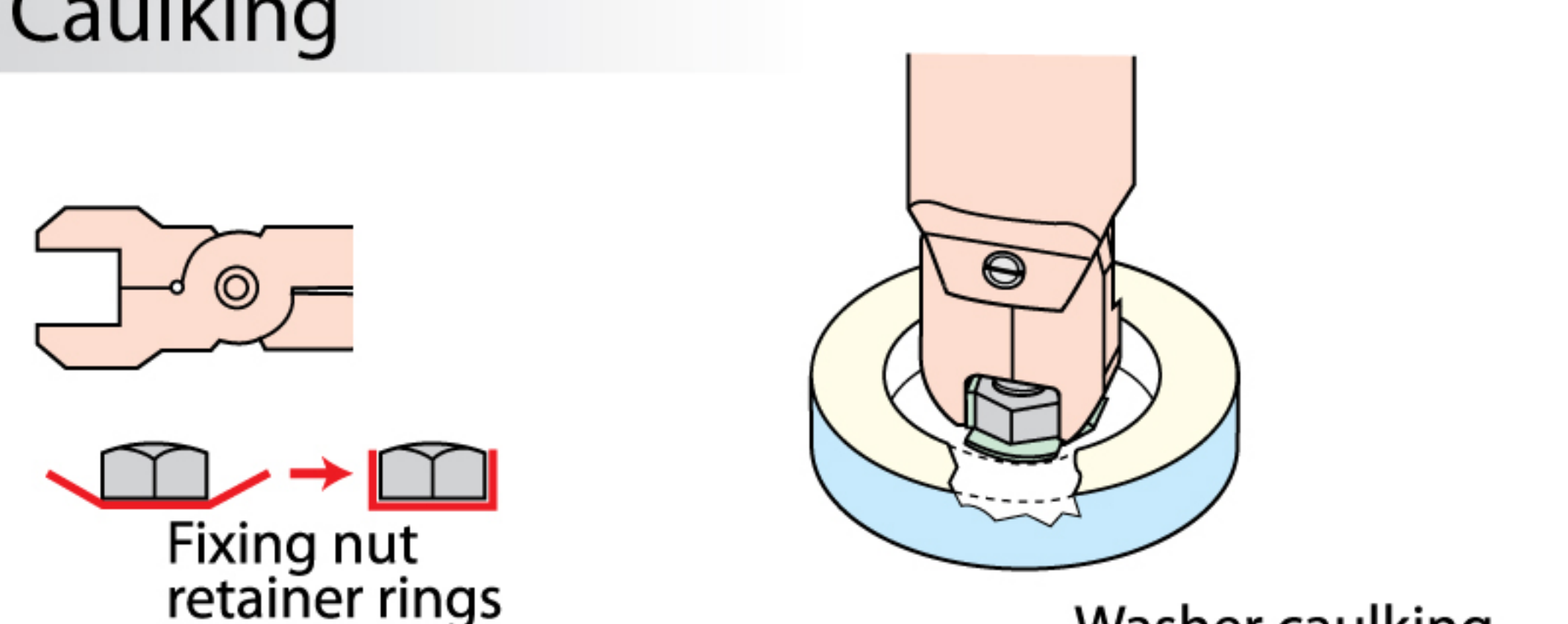
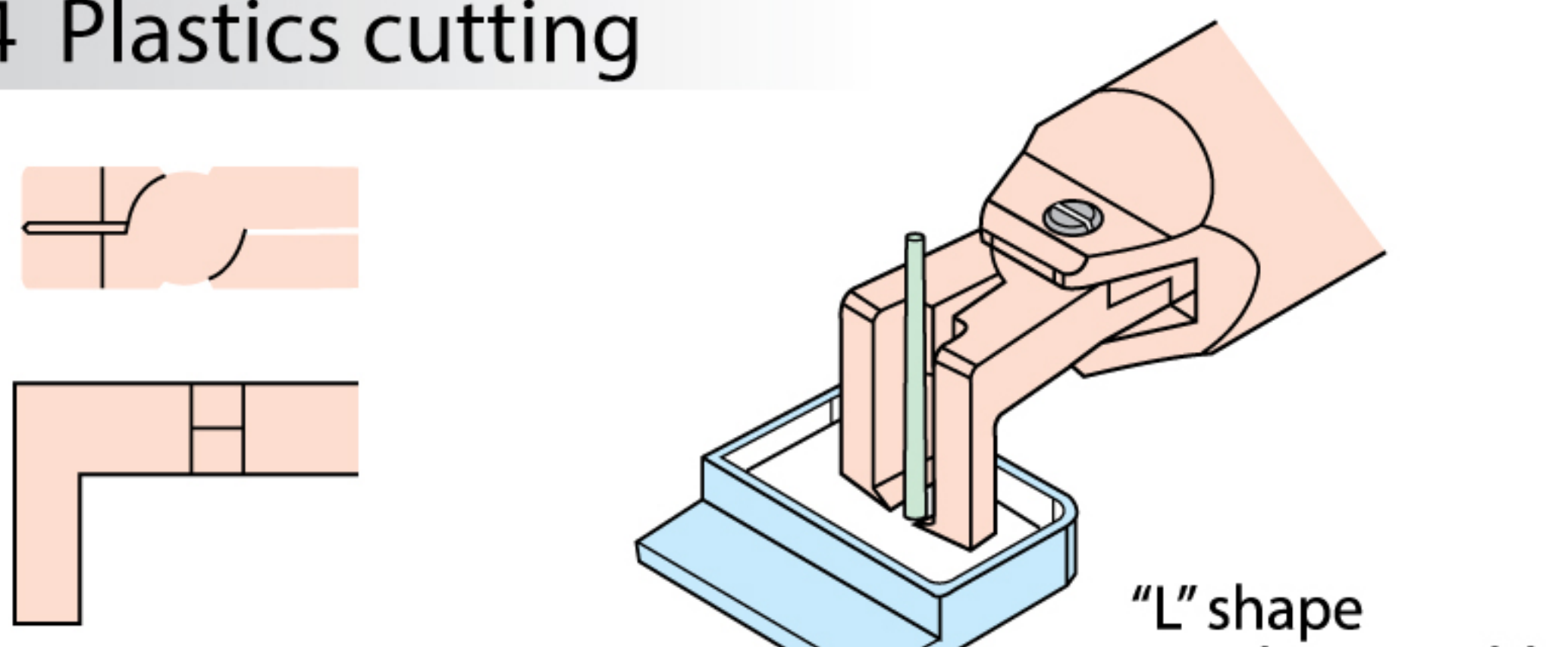
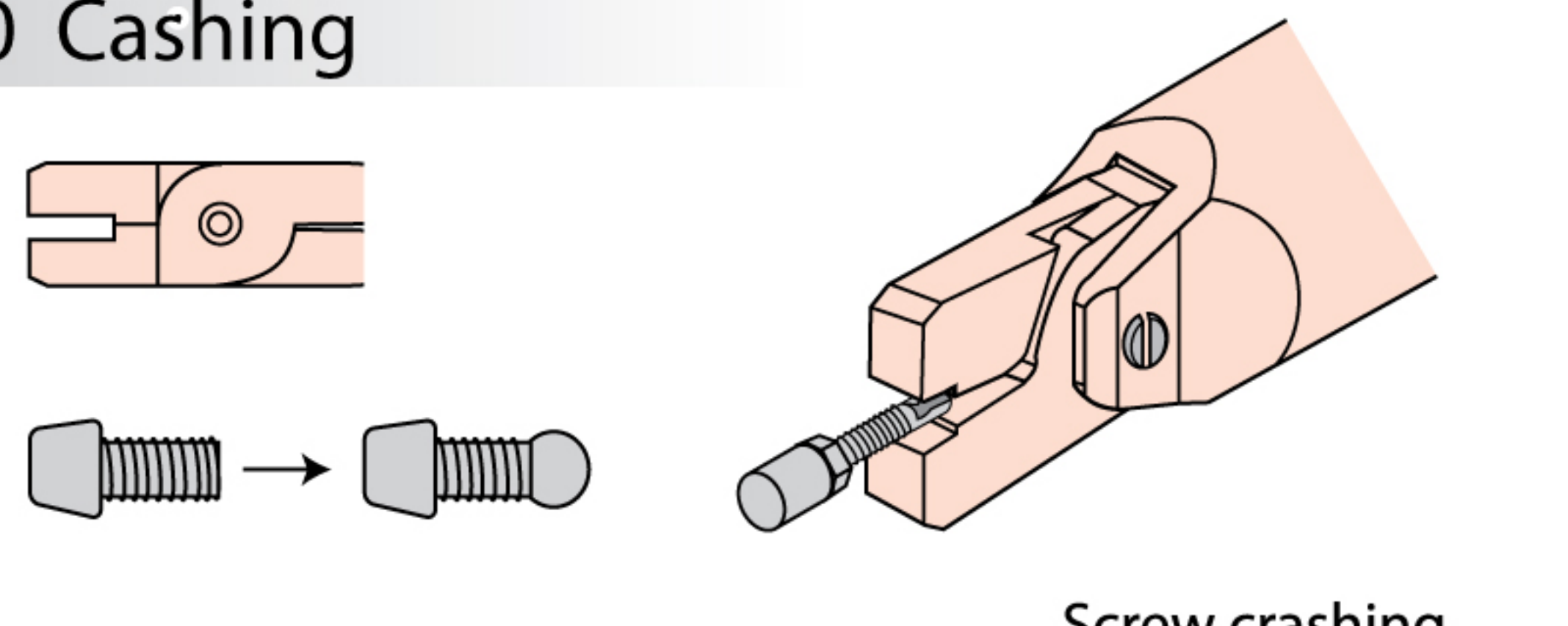
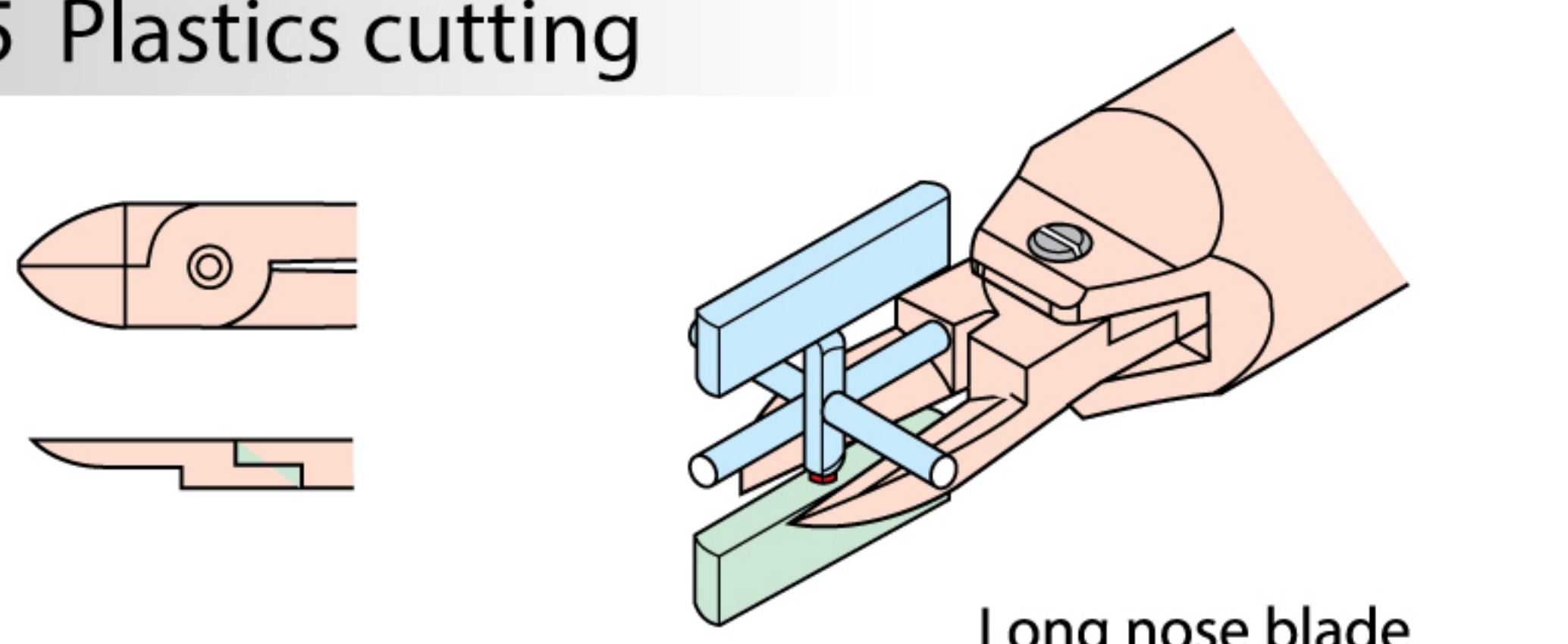
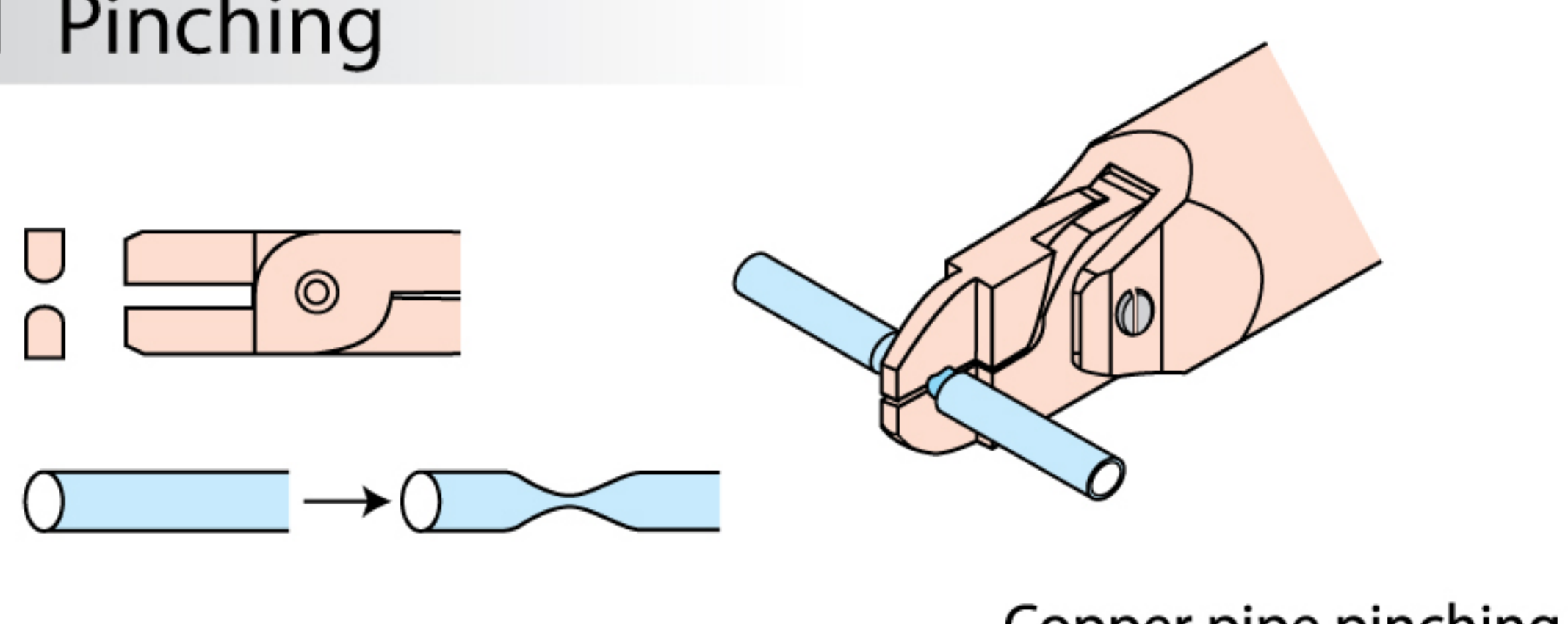
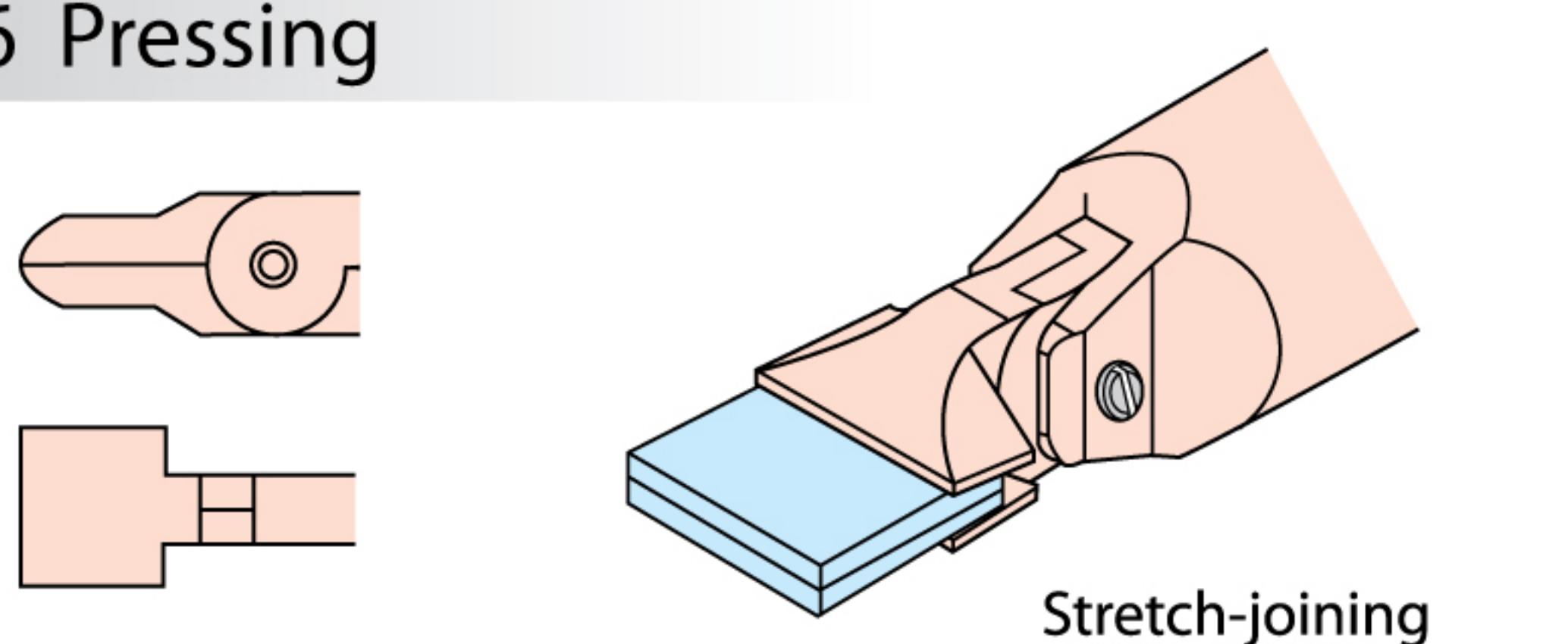
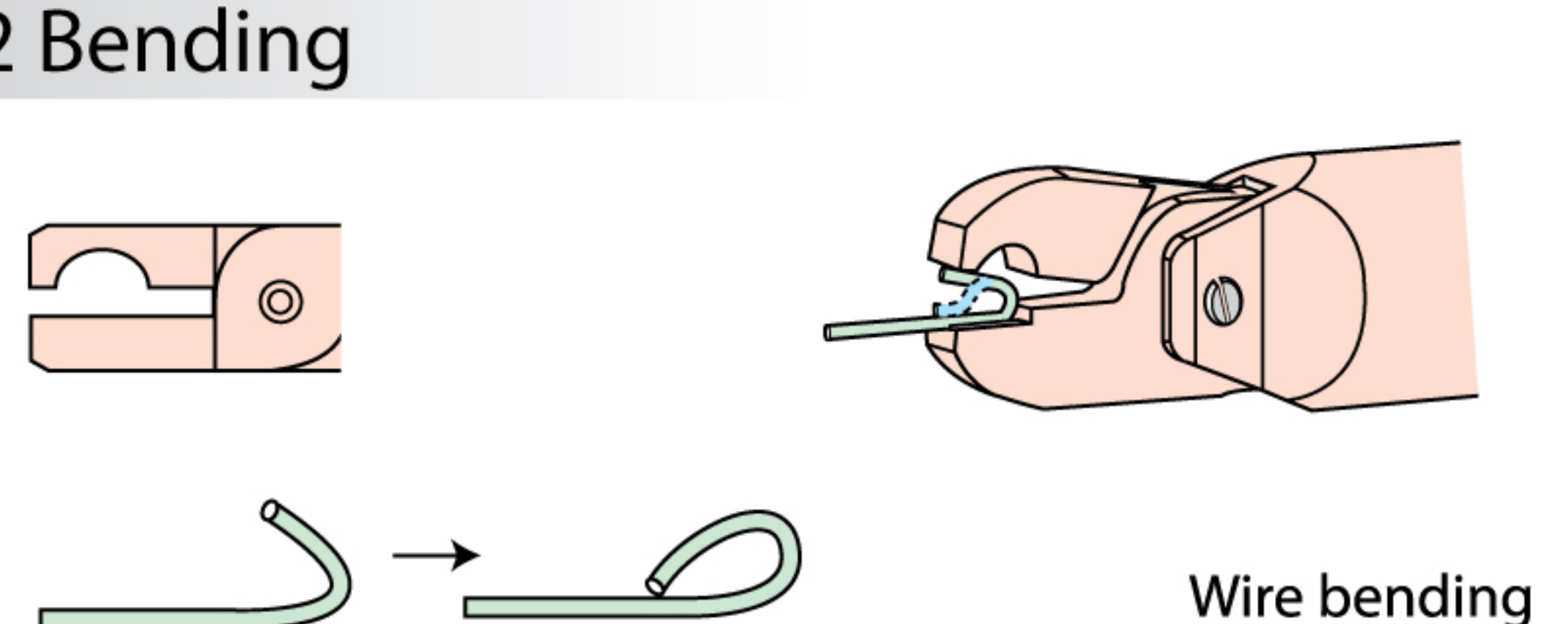


## Spacial Blades

### Some example of custom-made blades

(Designed to meet your particular application.)

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

|                                                                                                                                                                                 |                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 Plastics cutting</p>  <p>"L" shape internal blade      "L" shape external blade</p>      | <p>7 Punching various holes</p>                                           |
| <p>2 Plastics cutting</p>  <p>Crank shape internal blade      Crank shape external blade</p> | <p>8 Sash caulking</p>  <p>Dual caulking</p>                             |
| <p>3 Radius cutting of plastics</p>  <p>for radius cutting      for radius cutting</p>       | <p>9 Caulking</p>  <p>Fixing nut retainer rings      Washer caulking</p> |
| <p>4 Plastics cutting</p>  <p>"L" shape end cutting blade</p>                                | <p>10 Cashing</p>  <p>Screw crashing</p>                                 |
| <p>5 Plastics cutting</p>  <p>Long nose blade</p>                                            | <p>11 Pinching</p>  <p>Copper pipe pinching</p>                          |
| <p>6 Pressing</p>  <p>Stretch-joining</p>                                                    | <p>12 Bending</p>  <p>Wire bending</p>                                   |