

Feed Fingers

■ **Features:** The minimal 20.5mm height has been added to the lineup. Best for use in limited spaces.



① Claw

| Type | Material | Surface Treatment | Hardness |
|-------|----------|----------------------------|---------------------------------------|
| ATBM | SS400 | Electroless Nickel Plating | Carburization (Depth 0.1) HV400 - 500 |
| ATBS | SUS304 | - | - |
| ATBST | SUS304 | Tufride | Tufride (Depth 0.01) HV1000 |
| ATBJ | MC Nylon | - | - |

⊕ SUS304 Tufride is gray.
⊕ SUS304 Tufride has lesser antitrust effect compared to SUS304.

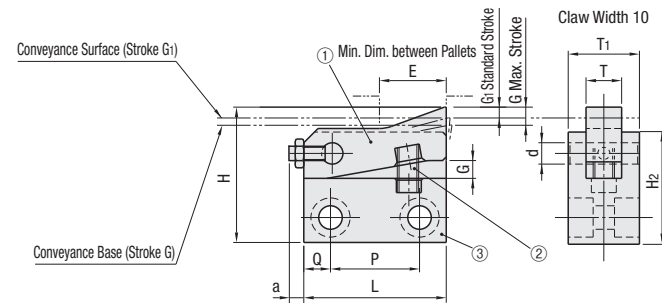
② Spring

Ⓜ Material: SUS304-WPB

③ Main Body, Pin

| Type | Main Body | Accessory (Pin) |
|-----------------|-----------|----------------------------|
| Type | Material | Surface Treatment |
| BL BH BT TP PI | SS400 | Electroless Nickel Plating |
| BLS BHS BTS TPS | SUS304 | - |
| | SUS304 | S45C |
| | | Electroless Nickel Plating |

| Accessory: (For BH and BHS only) | Claw | BH | BHS |
|----------------------------------|-------------------|----|-------------------|
| 14A, 14B | WSSM25-8-3x2 pcs. | - | - |
| 10A, 10B | WSSM20-6-3x2 pcs. | - | WSSS20-6-3x2 pcs. |



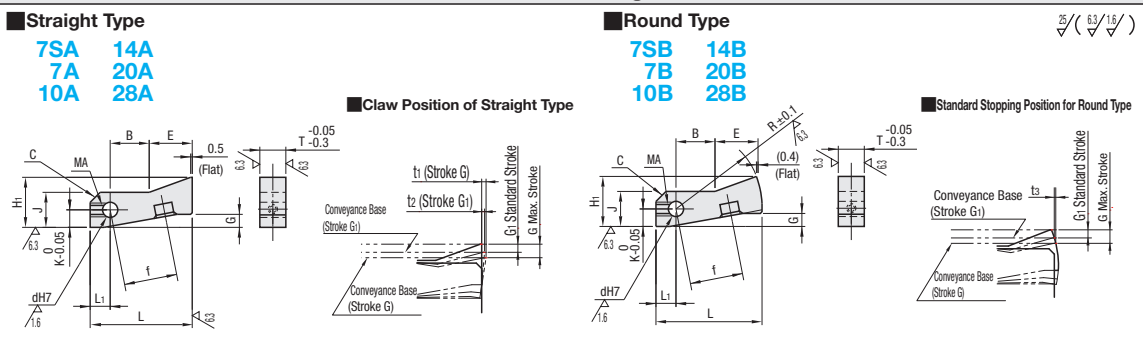
Feed Fingers are composed of ①Claw, ②Spring and ③Main Body. By selecting each type of components, the unit can be assembled before shipping.

| ①Claw | ②Spring | ③Main Body |
|-------------------------|---------|-----------------|
| ATBM 28A 28B 14A 14B | S H | BT PI |
| ATBS 10A 10B 7A 7B | S H | BL BH BT TP PI |
| ATBST 7SA 7SB*1 | S H | BL BH BT TP PI |
| ATBJ 10A 10B | S H | BLS BHS BTS TPS |

⊕ *1 "7SB" is available for ATBM only.

| Part Number Type | ①Claw | ②Spring | ③Main Body | T | T1 | d | H | H2 | L | P | Q | a | G | G1 | Unit Price | | | | |
|-----------------------------------------------------------------------------------------------------------|------------|-------------|--------------------------------------|----|----|----|------|------|----|----|------|-----|----|----|------------|------|------|-------|---|
| | | | | | | | | | | | | | | | ATBM | ATBJ | ATBS | ATBST | |
| ATBM (SS400 + Electroless Nickel Plating) ATBJ (MC Nylon) | 7SA 7SB | S | BL Side Mounting Type (Screw Hole) | 7 | 12 | 6 | 29 | 22.5 | 30 | 20 | 5 | 2.5 | 5 | 3 | - | - | - | - | |
| | | | TP Side Mounting Type (Tapped Hole) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 7A 7B | S | BT Bottom Mount Type | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | PI π-Shaped Type | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ATBM (SS400 + Electroless Nickel Plating) ATBS (SUS304) ATBST (SUS304 + Tufride) ATBJ (MC Nylon) | 10A 10B | S (Soft) | BL Side Mounting Type (Screw Hole) | 10 | 19 | 6 | 38 | 31 | 40 | 25 | 7.5 | 2.5 | 5 | 3 | - | - | - | - | |
| | | | BH Side Mounting Type (Through Hole) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | TP Side Mounting Type (Tapped Hole) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | BT Bottom Mount Type | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 14A 14B | H (Hard) | BL Side Mounting Type (Screw Hole) | 14 | 25 | 8 | 55.5 | 43 | 55 | 35 | 10 | 2.5 | 10 | 5 | - | - | - | - | |
| | | | BH Side Mounting Type (Through Hole) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | TP Side Mounting Type (Tapped Hole) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | BT Bottom Mount Type | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ATBM (SS400 + Electroless Nickel Plating) | 20A 20B | S | BT Bottom Mount Type | 20 | 38 | 10 | 63 | 49 | 65 | 40 | 12.5 | 4.5 | 10 | 5 | - | - | - | - | |
| | | | PI π-Shaped Type | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 28A 28B | S | BT Bottom Mount Type | 28 | 50 | 12 | 83 | 64 | 80 | 50 | 15 | 7 | 12 | 7 | - | - | - | - | |
| | | | PI π-Shaped Type | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Dimension Details ①Claw

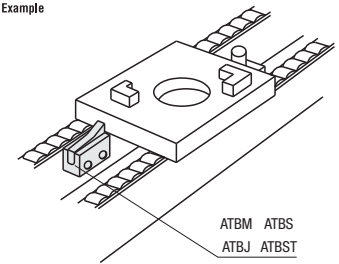


| Type | T | L | Round Claw | L1 | B | G | Straight Claw | Round Claw | R | H1 | J | K | MA | d | f | C | t1 | t2 | t3 |
|-------------------------------|---------|----|------------|------|------|------|---------------|------------|------|------|------|----|-----|-----|------|------|-----|-----|-----|
| ATBM ATBS ATBST ATBJ | 7SA 7SB | 7 | 30 | 31.5 | 7.5 | 7.5 | 15 | 13.9 | 24 | 16 | 10 | 5 | M3* | 6 | 15.7 | 3 | 1.8 | 1.2 | 0.7 |
| | 7A 7B | 7 | 40 | 41.5 | 8 | 15 | 17 | 15.9 | 33.5 | 20 | 14 | 7 | M4* | 6 | 21 | 4 | 1.6 | 1 | 0.5 |
| | 10A 10B | 10 | 55 | 57 | 10 | 12.4 | 10 | 32.6 | 30 | 47 | 30.5 | 19 | 10 | M4* | 8 | 35.8 | 5 | 3.3 | 0.8 |
| | 14A 14B | 14 | 65 | 66.5 | 12.5 | 18.5 | 11 | 34 | 30.4 | 54 | 33 | 21 | 10 | M5 | 10 | 40 | 7 | 3.4 | 1.5 |
| | 20A 20B | 20 | 65 | 66.5 | 12.5 | 18.5 | 11 | 34 | 30.4 | 54 | 33 | 21 | 10 | M5 | 10 | 40 | 7 | 3.4 | 1.5 |
| | 28A 28B | 28 | 80 | 82.5 | 15 | 30 | 13 | 35 | 30.5 | 67.5 | 45 | 30 | 15 | M6 | 12 | 50 | 9 | 4.5 | 2.8 |

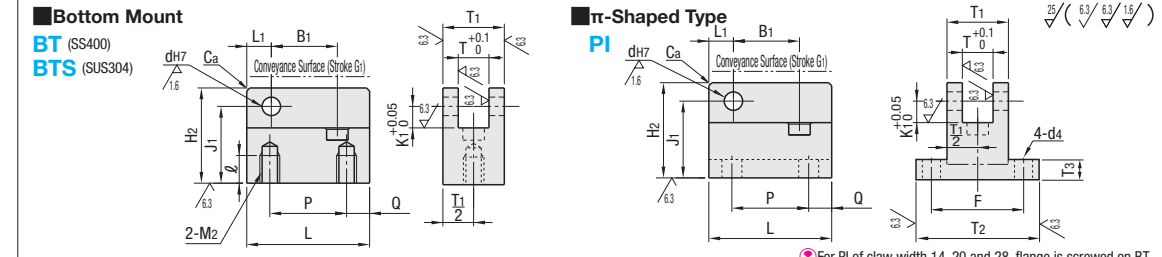
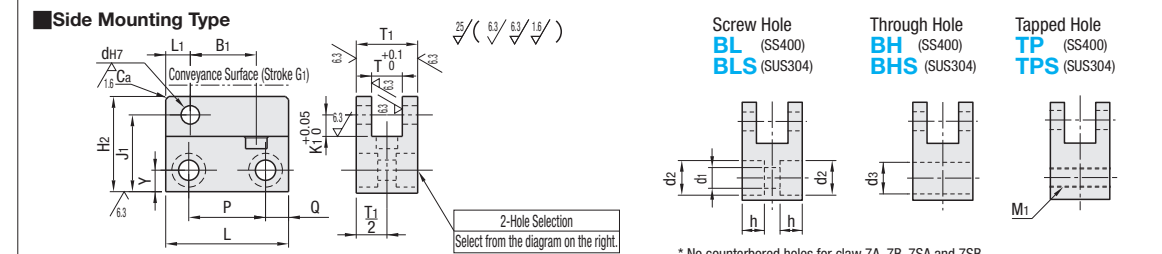
⊕ ATBM is available for 28A, 28B, 20A, 20B and 7SB only.
* ATBJ is for threaded insert.

| Type | Set | Load (Calculated Value) N | | | | | | | | | |
|------|--------|---------------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|
| | | Stroke 3 | | Stroke 5 (7) | | Stroke 10 (12) | | Stroke 10 (12) | | Stroke 10 (12) | |
| | | Spring Upper Part | Claw Tip | Spring Upper Part | Claw Tip | Spring Upper Part | Claw Tip | Spring Upper Part | Claw Tip | Spring Upper Part | Claw Tip |
| 7SA | Soft S | 0.4 | 0.3 | 1.1 | 0.7 | 1.5 | 1.0 | - | - | - | - |
| 7SB | Hard H | 1.4 | 1.0 | 2.4 | 1.6 | 2.9 | 2.0 | - | - | - | - |
| 7A | Soft S | 0.3 | 0.2 | 1.0 | 0.7 | 1.5 | 1.0 | - | - | - | - |
| 7B | Hard H | 1.7 | 1.1 | 2.6 | 1.7 | 3.1 | 2.1 | - | - | - | - |
| 10A | Soft S | 0.3 | 0.2 | 1.0 | 0.7 | 1.5 | 1.0 | - | - | - | - |
| 10B | Hard H | 1.8 | 1.2 | 2.6 | 1.7 | 3.2 | 2.1 | - | - | - | - |
| 14A | Soft S | 0.9 | 0.7 | 1.3 | 1.1 | 1.7 | 1.3 | 2.4 | 1.9 | - | - |
| 14B | Hard H | 2.6 | 2.1 | 3.1 | 2.5 | 3.5 | 2.8 | 4.3 | 3.5 | - | - |
| 20A | Soft S | 2.3 | 1.8 | - | - | 3.0 | 2.4 | 3.8 | 3.0 | - | - |
| 20B | Hard H | 3.6 | 2.8 | - | - | 4.5 | 3.5 | 5.5 | 4.3 | - | - |
| 28A | Soft S | 3.7 | 2.6 | - | - | 5.2 | 4.0 | 6.3 | 4.8 | - | - |
| 28B | Hard H | 4.9 | 3.4 | - | - | 6.7 | 5.2 | 8.0 | 6.2 | - | - |

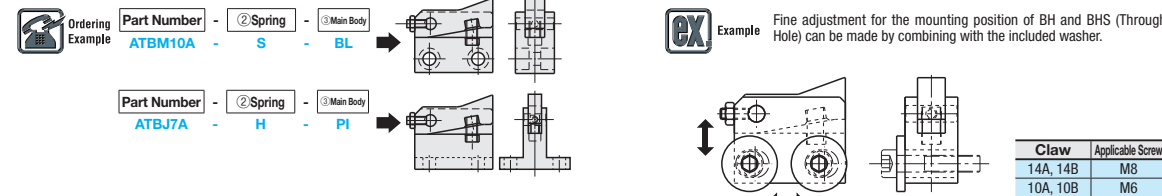
⊕ The value of Stroke 5 and 10 for 28A and 28B are of when Stroke 7 and 12.



Dimension Details ③Main Body



| Type | Main Body | T | T1 | L | P | Q | L1 | B1 | H2 | J1 | K1 | d | Ca | Side Mounting Type | | | | Bottom Mount Type | | | π-Shaped Type | | | | |
|------------|-----------|----|----|----|----|------|------|------|------|----|----|----|-----|--------------------|-----|----|-----|-------------------|----|----|---------------|----|---|----|----|
| | | | | | | | | | | | | | | Y | d1 | d2 | h | d3 | M1 | M2 | ℓ | d4 | F | T2 | T3 |
| 7SA 7SB | BL | 7 | 12 | 30 | 20 | 5 | 7.5 | 16 | 22.5 | 18 | 5 | 6 | 3 | 7 | 5.5 | - | - | - | - | - | - | - | - | - | - |
| | TP | - | - | - | - | - | - | - | - | - | - | - | 2.5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | PI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7A 7B | BL | 7 | 12 | 40 | 25 | 7.5 | 8 | 21.5 | 31 | 25 | 7 | 6 | 3 | 7 | 6.6 | - | - | - | - | - | - | - | - | - | - |
| | TP | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | PI | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10A 10B | BL | 10 | 19 | 40 | 25 | 7.5 | 8 | 21.5 | 31 | 25 | 7 | 6 | 3 | 7 | 6.6 | 11 | 7 | - | - | - | - | - | - | - | - |
| | BH | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | TP | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14A 14B | BL | 14 | 25 | 55 | 35 | 10 | 10 | 36.5 | 43 | 35 | 10 | 8 | 4 | 10 | 9 | 14 | 8.5 | - | - | - | - | - | - | - | - |
| | BH | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | TP | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20A 20B | BT | 20 | 38 | 65 | 40 | 12.5 | 12.5 | 40.7 | 49 | 40 | 10 | 10 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | PI | - | - | - | - | - | - | - | 64 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | BT | 28 | 50 | 80 | 50 | 15 | 15 | 51.4 | 64 | 53 | 15 | 12 | 5 | - | - | - | - | - | - | - | - | - | - | - | |
| 28A 28B | BT | 28 | 50 | 80 | 50 | 15 | 15 | 51.4 | 64 | 53 | 15 | 12 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| | PI | - | - | - | - | - | - | - | 82 | 71 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | BT | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



| Claw | Applicable Screw |
|----------|------------------|
| 14A, 14B | M8 |
| 10A, 10B | M6 |