

JECTOR PUNCHES FOR HEAVY LOAD

— FINISHED FOR RETAINERS · CONFIGURABLE FULL LENGTH · FIXED B TYPE · SPRING AND PIN REINFORCED TYPE · WPC® TREATMENT · HW COATING —



※ Jector punch which maintains the same tip length B even when L is changed.
 Ⓜ Projection length of the jector pin is 2mm for reinforced types and 4mm for non-reinforced types.

● For details of jector holes, refer to Jector Punch Blanks. P.238
 ● For details of jector pins, refer to Jector Pin Sets. P.241

| Type | Shank diameter D | M H | Catalog No. | | The tip shape can be selected from Tip shape A~G in the figure below. |
|---------------------------------|----------------------------------|--------|-------------|-----------|---|
| | | | Type | Tip shape | |
| —WPC® treatment— RoHS | Dm5 | H | W—LFAPJ | A | <p>The tip edges are very slightly rounded.</p> |
| | | | W—LFAPJV | | |
| —HW coating— | D ^{+0.005} ₀ | H | HW—LFAPJ | D | |
| | | | HW—LFAPJV | | |
| —WPC® treatment— | D ^{+0.005} ₀ | H | AW—LFAPJ | E | |
| | | | AW—LFAPJV | | |
| —HW coating— | D ^{+0.005} ₀ | H | AHW—LFAPJ | G | |
| | | | AHW—LFAPJV | | |

| Tip shape | Tip shape | Tip shape | Tip shape | Tip shape |
|--------------------------------------|--------------------------------------|--|-----------|-----------|
| A | D | R | E | G |
| | | | | |
| $P \geq W$ $K = \sqrt{P^2 + W^2}$ | $P \geq W$ $K = \sqrt{P^2 + W^2}$ | $P \geq W$ $0.15 \leq R < \frac{W}{2}$ $K = \sqrt{(P-2R)^2 + (W-2R)^2 + 2R}$ | $P > W$ | $P > W$ |

| Type | Catalog No. | Tip shape | Tip length | D | L | 0.01mm increments | | | R | B | H |
|---|------------------------|-----------|------------|----|--------------------------------|-------------------|--------|---------|----------------|----|----|
| | | | | | | min. P | max. P | P·Kmax. | | | |
| —WPC® treatment— W—LFAPJ | (D ^{+0.005}) | A | S | 8 | 60.0~130.0 | 4.00~7.99 | 7.97 | 4.00 | 0.15 ≤ R < W/2 | 13 | 15 |
| | | | | 10 | 70.0~130.0 | 5.00~9.99 | 9.97 | 5.00 | | | |
| | | | | 13 | (70.0~100.0) | 6.00~12.99 | 12.97 | 6.00 | | | |
| | | | | 16 | 70.0~130.0 | 10.00~15.99 | 15.97 | 6.00 | | | |
| | | | | 20 | Spring and pin reinforced type | 13.00~19.99 | 19.97 | 6.00 | | | |
| Spring and pin reinforced type W—LFAPJV | (D ^{+0.005}) | D | S | 8 | 70.0~130.0 | 4.00~7.99 | 7.97 | 4.00 | 0.15 ≤ R < W/2 | 19 | 25 |
| | | | | 10 | 70.0~130.0 | 5.00~9.99 | 9.97 | 5.00 | | | |
| | | | | 13 | (70.0~100.0) | 6.00~12.99 | 12.97 | 6.00 | | | |
| | | | | 16 | 80.0~130.0 | 10.00~15.99 | 15.97 | 6.00 | | | |
| | | | | 20 | Spring and pin reinforced type | 13.00~19.99 | 19.97 | 6.00 | | | |
| —HW coating— HW—LFAPJ | (D ^{+0.005}) | E | L | 8 | 70.0~130.0 | 4.00~7.99 | 7.97 | 4.00 | 0.15 ≤ R < W/2 | 19 | 15 |
| | | | | 10 | 70.0~130.0 | 5.00~9.99 | 9.97 | 5.00 | | | |
| | | | | 13 | (70.0~100.0) | 6.00~12.99 | 12.97 | 6.00 | | | |
| | | | | 16 | 80.0~130.0 | 10.00~15.99 | 15.97 | 6.00 | | | |
| | | | | 20 | Spring and pin reinforced type | 13.00~19.99 | 19.97 | 6.00 | | | |
| Spring and pin reinforced type HW—LFAPJV | (D ^{+0.005}) | G | L | 8 | 80.0~130.0 | 10.00~15.99 | 15.97 | 6.00 | 0.15 ≤ R < W/2 | 25 | 25 |
| | | | | 10 | 80.0~130.0 | 10.00~15.99 | 15.97 | 6.00 | | | |
| | | | | 13 | (80.0~100.0) | 18.00~24.99 | 24.97 | 6.00 | | | |
| | | | | 16 | 80.0~130.0 | 18.00~24.99 | 24.97 | 6.00 | | | |
| | | | | 25 | Spring and pin reinforced type | 18.00~24.99 | 24.97 | 6.00 | | | |

Ⓜ The spring constants of W—LFAPJV, AW—LFAPJV, HW—LFAPJV, and AHW—LFAPJV are twice those of W—LFAPJ, AW—LFAPJ, HW—LFAPJ, and AHW—LFAPJ respectively.
 Ⓜ A: P > D - 0.03 → ℓ = 0 If P > D - 0.03 for a round punch, D_{0.03}^{0.01} (press-in lead) is not included.
 Ⓜ R E G: P·K > D - 0.05 → ℓ = 0 If P·K > D - 0.05 for a shaped punch, D_{0.03}^{0.01} (press-in lead) is not included.
 Ⓜ Jector holes are based on the jector punch blanks for heavy load. P.238

Order — — — —
 W—LFAPJAS 20 — 80 — P15.00

Effect of spring and pin reinforced type
 The spring constant is twice that of the standard type, resulting in improved scrap removal. In addition, the improved strength under the pin head prevents breakage below the head.

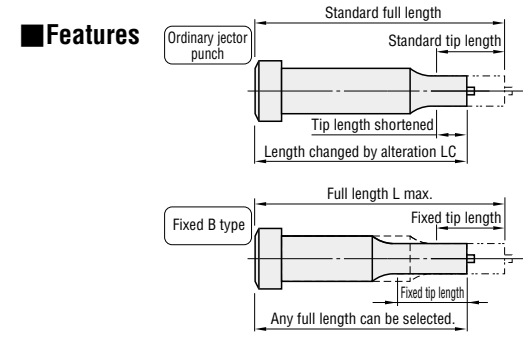
Days to Ship **Quotation**

Alterations — — — — — (BC·KC, etc.)
 W—LFAPJDS 20 — 79 — P15.00 — W6.00 — BC13

| Alteration | Code | A | D R E G | 1Code |
|------------|------|---|---|-------|
| | BC | Tip length change (shorter than standard) 2 ≤ BC < B 0.1 mm increments | | |
| | PRC | Rounding of tip side edge 0.3 ≤ PRC ≤ 1 0.1 mm increments Ⓜ PRC ≤ (P - d ₀ - 0.5) / 2 d ₀ dimension P.238 Ⓜ Cannot be combined with PCC. | | |
| | PCC | Chamfering to tip side edge 0.3 ≤ PCC ≤ 1 0.1 mm increments Ⓜ PCC ≤ (P - d ₀ - 0.5) / 2 d ₀ dimension P.238 Ⓜ Cannot be combined with PRC. | | |
| | PKC | Tip tolerance change P +0.01 → +0.005 0 0 Ⓜ P dimension can be selected in 0.01 mm increments. Ⓜ HW coating cannot be used for D > 13. | Tip tolerance change P·W ± 0.01 → +0.01 0 0 | |
| | LKC | Full length tolerance change L +0.3 → +0.05 0 0 | | |

| Alteration | Code | A | D R E G | 1Code |
|------------|------|---|---|-------|
| | KC | Addition of single key flat to head | Key flat position change 1° increments | |
| | WKC | Addition of double key flats in parallel | Double key flats in parallel Can be combined with KC. | |
| | KFC | Double key flats at 0° and a selected angle 1° increments | Double key flats at 0° and a selected angle 1° increments | |
| | NKC | | No key flat | |
| | SKC | Single key flat on shank P ≤ D - 2.2 W ≤ D - 2.2 (Machining width 1) Ⓜ Cannot be combined with KC·WKC·KFC. | | |
| | NC | The jector pin is removed. | | |
| | NDC | No press-in lead ℓ ≥ 3 → ℓ = 0 | | |

P Price **Quotation**



- Whereas the tip length B gets shortened when alteration LC is added to an ordinary jector punch, a fixed B type maintains the same tip length B for any L dimension.
- Because a fixed B type jector punch has no side hole on the shank, it can be used as an air blow punch simply by removing the jector pin.

PUNCHES