

# TAPERED HEAD JECTOR PUNCHES

— RW COATING —



Type	Material	Catalog No.	Shape
	RoHS punch Equivalent to SKH51 61~64HRC Surface 3100HV Taper ring NAK80 37~43HRC	RW-TSSJAS	
		RW-TSSJAL	
	punch Powdered highspeed steel 64~67HRC Surface 3100HV Taper ring NAK80 37~43HRC	RW-TSPJAS	
		RW-TSPJAL	

Ⓜ The tip edges are very slightly rounded.

Catalog No.		0.1mm increments L	0.01mm increments min. P max.	B	H	d1	d2
Type	D						
 RW-TSSJAS RW-TSPJAS	8	50.0 ~ 80.0	4.00 ~ 7.99	13	13	1.5	3.4
	10	55.0 ~ 90.0	5.00 ~ 9.99		15	1.8	4.4
	13	65.0 ~ 100.0	6.00 ~ 12.99		18	2.8	
	16		10.00 ~ 15.99	19	21		
 RW-TSSJAL RW-TSPJAL	8	60.0 ~ 80.0	4.00 ~ 7.99	19	13	1.5	3.4
	10	60.0 ~ 90.0	5.00 ~ 9.99		18	1.8	4.4
	13	70.0 ~ 100.0	6.00 ~ 12.99		15	2.8	
	16		10.00 ~ 15.99	25	21		

Ⓜ P > D - 0.03 → ℓ = 0 If P > D - 0.03 for a round punch, D - 0.01/-0.03 (press-in lead) is not included.  
 Ⓜ Jector holes are based on the jector punch blanks for heavy load. **P.238**

Order **Catalog No.** — **L** — **P**  
 RW-TSSJAS 10 — 82 — P8.30

Days to Ship **Quotation**

Price **Quotation**

Alterations **Catalog No.** — **L** — **P** — (BC·SC...etc.)  
 RW-TSSJAL 10 — 82 — 8.60 — PRC0.3

Alterations	Code	Spec.	1Code
 Alterations to tip	BC	Tip length change (shorter than standard) $2 \leq BC \leq B$ 0.1mm increments	Quotation
	PRC	Rounding of tip side edge $0.3 \leq PRC \leq 1$ 0.1mm increments $PRC \leq (P - d1 - 0.5) / 2$	

Alterations	Code	Spec.	1Code
 Alterations to shank	LKC	Full length tolerance change $L +0.3 / 0 \Rightarrow +0.05 / 0$	Quotation
	NC	<del>Mount</del> The jector pin is removed.	
	NDC	No press-in lead $\ell \geq 3 \Rightarrow \ell = 0$	

## Example

### Features

- Tapered head jector punches are designed for punching of stainless steel, high-tensile steel, and for general heavy loads. The strength and convenience are superior to conventional heavy-load jector punches due to improvements to the following points.

- There is no side hole on the shank. Such a hole can be a cause of punch breakage during punching for heavy loads.
- A problem with conventional jector punches is that the tip length B is shortened if an LC alteration is used. However tapered head jector punches are designed to maintain the same tip length B for any L dimension.

- When used with the accessory taper rings, the tapered head jector punches eliminate the need for machining of tapered holes in the punch plates and for machining to align the thickness of the plate and punch head.

- Guide to tapered head punches **P.1611**

### Note

- The head thickness tolerance of a tapered head punch,  $8 +0.03 / +0.01$ , is achieved by machining a match between the actual individual punch and its taper ring. Be sure to use a taper ring that has the same ID mark as the punch. If the punch is combined with a tapered ring that has a different ID number, the head thickness may deviate from the tolerance listed in the catalog.

- When a punch is replaced, replace both punch and taper ring as a set. (The punch and taper ring are not sold individually.)

**Effects of RW coating**  
 Effective for press processing of ultra-high-tensile material and thick plate high-tensile material thanks to its superior wear resistance, peeling resistance and heat resistance.  
 See the product data for details. **P.1607**

