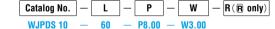


Catalog No.								IIIIII IIIGIEIIIEIIG U.U IIIIIII IIIGIEIIIE			4								
			R		ł		L			A)	l DR	E G	R	B	d1	S	d2	H
	Type	Tip shape	Tip length	D						min. P	max.	P∙Kmax.	P•Wmin.	R					
(D _{m5}) (D ^{+0.005}) WJP A—WJP	, . , , , , , , , , , , , , , , , ,	A	S	8	(40)	50	60	70	80	3.000 ~	7.990	7.97	3.00	y)		1.2	27	3.4	11
			10	(40)	50	60	70	80	3.000 ~	9.990	9.97	3.00	onl	13	1.6	28	4.4	13	
	—Lapping—	R		13	(40)	50	60	70	80	6.000 ~	12.990	12.97	6.00	<u>M</u> (B		1.9	20	4.4	16
	L—WJP AL—WJP	_	•	8		50	60	70	80	$3.000 \sim$	7.990	7.97	3.00	₩.		1.2	27	3.4	11
	—TiCN coating—	E		10		50	60	70	80	$3.000 \sim$	9.990	9.97	3.00	15≦	19	1.6	28	4.4	13
H-W.	H-WJP AH-WJP	G		13		50	60	70	80	6.000 ~	12.990	12.97	6.00	0.		1.9	20 4.4	16	

(§) \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare (P·K>D-0.05 for a shaped punch, $D_{-0.03}^{-0.01}$ (press-in lead) is not included.







Days to Ship Quotation





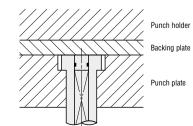
■ Features

- Because the jector pin and spring are integrated with the punch, scrap retention can be easily added even to carbide punches.
- (It is not necessary to install a spring from the punch holder.) · Because the head tapping is eliminated, the loss of head strength is minimized.
- The plug holding the spring is only for provisional holding only.

 When using the punch, be sure to support both the head and the spring with a backing plate. (If the spring is not supported, the plug and spring may come off during use.)

■Example of use

Use a backing plate to support the plug as well.





	Alteration	Code	A	DREG	1Code			
		PC WC	Tip dimension change PC≧PCmin. 0.001mm increments D PCmin. 8 2.300 10 2.800 13 5.000	Tip dimension change PC → WCmin. Offirm increments (if combined with PUC, 0.001 mm increments can be selected.) D PC → WCmin. 8 2.50 10 2.80 13 5.00				
Alterations to tip	BC	ВС	Tip length change 2≦BC < B 0.1mm increments ③ If combined with LC, B dimension is shortened by (L−LC).					
	0.08 GL	SC	Tip roughness $02\sqrt{6}$ \Rightarrow $008\sqrt{6}$ The base material is finished before the coating is applied. $\textcircled{\roothedge}$ Can be used for coating types only.					
	PRC±0.05	PRC	Rounding of tip side edge $0.3 \le PRC \le 1$ $0.1 mm$ increments $\PRC \le (P-d_1-0.5)/2$		Quota			
		PKC	Tip tolerance change Normal $P \stackrel{+0.005}{\longrightarrow} \stackrel{+0.003}{\longrightarrow} \stackrel{+0.003}{\longrightarrow} $ TiCN coating $P \stackrel{+0.01}{\longrightarrow} \stackrel{+0.005}{\longrightarrow} \stackrel{+0.005}{\longrightarrow} $	Tip tolerance change (P-W dimensions can be selected in 0.001 mm increments.) P-W +0.01 ⇒ +0.005 S Cannot be used with TiCN coating.				
		PKV	Tip tolerance change Normal $P^{+0.005} \Rightarrow \pm 0.002$ TiCN coating $P^{+0.01} \Rightarrow \pm 0.005$ P dimension increm	Tip tolerance change (P-W dimensions can be selected in 0.001 mm increments.) P-W +0.01 ⇒±0.005 ⊗ Cannot be used with TiCN coating.				

	Alteration	Code	(A)	DREG	1Code			
Alterations to full length	LC L	LC	Full length change 25+B(BC) ≦LC <l (if="" 0.0<="" 0.1mm="" and="" are="" b="" by="" combined="" dimensions="" increments="" lkc-lkz,="" l—(lc).="" s="" shortened="" th="" with="" ③=""><th>Full length change 30+B (BC) ≦LC < L 0.1mm increments ③ B and S dimensions are shortened by L— (LC).</th><th></th></l>	Full length change 30+B (BC) ≦LC < L 0.1mm increments ③ B and S dimensions are shortened by L— (LC).				
ations		LKC	Full length tolerance L + 0.3 \ighthappoonup +					
Alter		LKZ	Full length tolerance L+0.3 \Leftrightarrow + change	Ocannot be used with TiCN coating.				
		KC	Addition of single key flat to head	90° Key flat position change 1° increments				
-		WKC	Addition of double key flats in parallel	Double key flats in parallel Can be combined with KC.	loo			
) hear		NKC		No key flat	otat			
Alterations to head	= [1]	нс	Head diameter change D≦HC <h 0.1mm increments</h 					
ıltera		TKC	Head thickness tolerance change T +0.3 \$\ighthrows	+0.02 0				
•		TKM	Head thickness tolerance change T $^{+0.3}_{0}$ \Leftrightarrow $^{-0}_{-0.02}$					
	TCC	TCC	Chamfering of head This improves the strength of the punch head. ► P.1611 0.1mm increments 0.5≦TCC≦(H−D)/2					
Shank	ℓ D ^{-0.01}	NDC	No press-in ℓ=3⇔ℓ=0 lead					