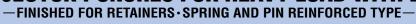
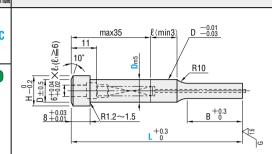
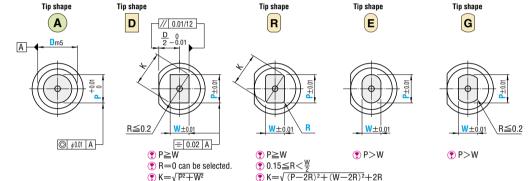
## **JECTOR PUNCHES FOR HEAVY LOAD WITH DOWEL HOLES**



- For details of jector holes, refer to Jector Punch Blanks. DE P.238 • For details of jector pins, refer to Jector Pin Sets.
- Projection length of the jector pin is 2mm for reinforced types and 4mm for non-reinforced types. Catalog No. Shank diameter The tip shape can be selected from Tip shape  $A \sim G$  in the figure below. Type D **t**olerance Type Tip shape Tip Bength With dowel hole With locating Dowel pin Spring and pin D<sub>m5</sub> to SKH51 dowel hole MS6-25 einforced type AHJV 61~.64HRC Tip length (B) L>S





Catalog No.											0.01mm increments						
B 1896 41				L				<u>A</u>	DR	DREG R			Н				
Туре	shape	Tip length	hole	D						min. P max.	P∙Kmax.	P•Wmin.	R				
AHJ Spring and pin reinforced type AHJV	A D R E G	<b>S</b>	C	10	(60)	70	80	90	100	(110) (120)	(130)	5.00~ 9.99	9.97	5.00	00 (A) (B) (1)	12	15
				13	(60)	70	80	90	100	(110) (120)	(130)	6.00~ 12.99	12.97	6.00		13	18
				16	(60)	70	80	90	100	(110) (120)	(130)	10.00~ 15.99	15.97	6.00			21
				20	(60)	70	80	90	100	<b>(110) (120)</b>	<b>(130</b> )	13.00~ 19.99	19.97	6.00		19	25
				25	(60)	70	80	90	100	(110) (120)	(130)	18.00~ 24.99	24.97	6.00			30
		L		10	(60)	70	80	90	100	(110) (120)	(130)	5.00~ 9.99	9.97	5.00	V	19	15
				13	(60)	70	80	90	100	<b>(110) (120)</b>	(130)	$6.00 \sim 12.99$	12.97	6.00		19	18
				16		70	80	90	100	(110) (120)	(130)	10.00~ 15.99	15.97	6.00	0.15		21
				20		70	80	90	100	(110) (120)	(130)	13.00~ 19.99	19.97	6.00		25	25
				25		70	80	90	100	(110) (120)	(130)	18.00~ 24.99	24.97	6.00			30

- L(60)····B=8 If full length is (60), tip length is 8mm in all cases.
- (a):  $P>D-0.03 \rightarrow \ell=0$  If P>D-0.03 for a round punch,  $D_{-0.03}^{-0.01}$  (press-in lead) is not included.
- **?**  $\blacksquare$   $\blacksquare$   $\blacksquare$   $\blacksquare$   $\blacksquare$   $\blacksquare$   $\blacksquare$   $\blacksquare$   $\blacksquare$  (g: P•K>D—0.05...+ $\ell$ =0 If P•K>D—0.05 for a shaped punch,  $D_{-0.03}^{-0.01}$  (press-in lead) is not included.
- ⊗ L(110), (120) and (130) cannot be used for spring and pin reinforced types.



AHJAS-C 20 - 80 - P15.00 AHJVDS-C 25 - 80 - P18.00 - W10.00

**■**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





	Alteration	Code	<b>A</b>	1Code	
Alterations to tip	BCBB	ВС	Tip length change (short 2≦BC <b 0.1="" r<="" th=""><th></th></b>		
	0.16 GL	SC	Lapping of tip  P dimension tolerance an  R=0 cannot be selecte		
	PRC±0.05	PRC	Rounding of tip side edge  0.3≦PRC≦1  0.1 mm increments  PRC≦(P-d₁-0.5)/2  d₁ dimension ► P.238  Cannot be combined with PCC.		
	PCC±0.05	PCC	Chamfering to tip side edge 0.3≦PCC≦1 0.1 mm increments  • PCC≦ (P-d₁-0.5)/2 d₁ dimension ► P.238 ⊗ Cannot be combined with PRC.		notation
	<u> </u>	PKC	Tip tolerance change P+0.01 ⇒+0.005 0 ○ (P dimension can be selected in 0.001 mm increments.)	Tip tolerance change P•W±0.01⇔+0.01	O
Alterations to full length	LC L	LC	Full length change LC <l( (if="" 0.1="" 4mm<="" and="" b="" combined="" increments="" is="" length="" lkc-="" mm="" of="" projection="" reinforced="" shorte="" th="" tip="" types="" with=""><th></th></l(>		
		LKC	Full length tolerance change	> <sup>+0.05</sup>	
		LKZ	Full length tolerance change L+0.3 c		

	Alteration	Code	<b>(A)</b>	DREG	1Code
Alterations to head		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.	
		KFC	0* Double key flats 0* 4t 0* and a selected angle 1* increments  Cannot be combined with KC-WKC.	0°—180° Double key flats at 0° and a selected angle 1° increments	
		NKC		No key flat	tion
Alterations to shank		AC	AIR [	The jector pin is removed to create an air path and the side vent hole is plugged from the inside by inserting a resin (ABS) ring.	Quotati
		NC		The jector pin is removed.  Cannot be combined with AC.	
	<b>₽</b>	TPC	Dowel pin change MS6—25 that comes w changed to MSTP6—25		
	ℓ D-0.01	NDC	No press-in lead €≧3 ⇔	- ℓ=0	



■Uses of punches with locating dowel holes

This type of punch is mainly used with dies for parts such as automobile bodies, in combination with a retainer that holds the punch. Rather than indirect positioning using the retainer dowel hole, these punches can be positioned directly using the dowel hole machined on the punch axis, improving die accuracy. These punches are particularly effective when used for die machining with NC machines.

This type of punch can be also used with dies for the external panels of electrical appliances, either in combination with a retainer, or attached to the punch plate of an ordinary progressive die.







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