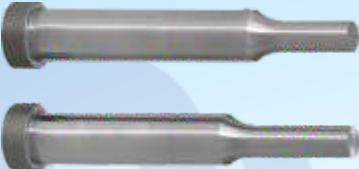
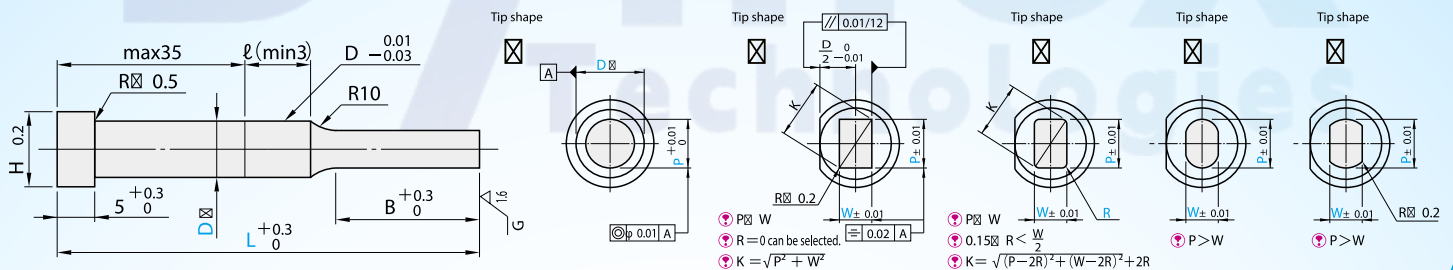


Type	Shank diameter D _T tolerance	M H	Catalog No.		
			Type	Tip shape	B Tip length
 For shank diameter tolerance D_T, select either m5 or +0.005 0	Dm5	Equivalent to SKD11 60~63HRC	DSP	A D R	S L X
		Equivalent to SKH51 61~64HRC	DSH		
		Powdered highspeed steel 64~67HRC	DPH		
	D+0.005 0	Equivalent to SKD11 60~63HRC	A—DSP	E G	Tip length (B) X>L>S
		Equivalent to SKH51 61~64HRC	A—DSH		
		Powdered highspeed steel 64~67HRC	A—DPH		



Part Number				L									0.01 mm increments				B	H
Type	Tip Shape	B Tip Length	D										A	D R E G		R		
				min. P max							P ● Kmax.	P ● Wmin.	R					
(Dm5) DSP DSH DPH		3	40	50	60	70	80	90	100	1.00 ~ 2.99				0.15 ≧ R < W/2 @ Only	8	5		
		4	40	50	60	70	80	90	100	1.00 ~ 3.99		3.97	1.00			7		
		5	40	50	60	70	80	90	100	2.00 ~ 4.99		4.97	1.20			8		
		6	40	50	60	70	80	90	100	2.00 ~ 5.99		5.97	1.50			9		
		8	40	50	60	70	80	90	100	3.00 ~ 7.99		7.97	2.00		11			
		10	(40)	50	60	70	80	90	100	3.00 ~ 9.99		9.97	2.50		13			
		(12)				70	80	90	100	5.00 ~ 11.99		-			15			
		13	(40)	50	60	70	80	90	100	6.00 ~ 12.99		12.97	3.00		16			
		16	(40)	50	60	70	80	90	100	10.00 ~ 15.99		15.97	4.00		19			
		20	(40)	50	60	70	80	90	100	13.00 ~ 19.99		19.97	4.00		23			
(D+0.005) 0		25	(40)	50	60	70	80	90	100	18.00 ~ 24.99		24.97	6.00	28				
		3		50	60	70	80	90	100	1.00 ~ 2.99		-		13	5			
		4		50	60	70	80	90	100	1.00 ~ 3.99		3.97	2.00		7			
		5		50	60	70	80	90	100	2.00 ~ 4.99		4.97	2.00		8			
		6		50	60	70	80	90	100	2.00 ~ 5.99		5.97	2.00		9			
		8		50	60	70	80	90	100	3.00 ~ 7.99		7.97	2.50	11				
		10		50	60	70	80	90	100	3.00 ~ 9.99		9.97	2.50	13				
		13		50	60	70	80	90	100	6.00 ~ 12.99		12.97	3.00	16				
		16			60	70	80	90	100	10.00 ~ 15.99		15.97	4.00	19				
		20			60	70	80	90	100	13.00 ~ 19.99		19.97	5.00	23				
A-DSP A-DSH A-DPH		25			60	70	80	90	100	18.00 ~ 24.99		24.97	6.00	28				
		3		50	60	70	80	90	100	1.20 ~ 2.99				19	5			
		4		50	60	70	80	90	100	1.20 ~ 3.99		3.97	2.00		7			
		5			60	70	80	90	100	2.00 ~ 4.99		4.97	3.50		8			
		6			60	70	80	90	100	2.00 ~ 5.99		5.97	3.50		9			
		8			60	70	80	90	100	3.00 ~ 7.99		7.97	5.00	11				
		10			60	70	80	90	100	3.00 ~ 9.99		9.97	5.00	13				
		13			60	70	80	90	100	6.00 ~ 12.99		12.97	5.00	16				
		16				70	80	90	100	10.00 ~ 15.99		-		19				
		20				70	80	90	100	13.00 ~ 19.99				19				
25				70	80	90	100	18.00 ~ 24.99		19								

- ④ $P > D - 0.03 \rightarrow \ell = 0$ If $P > D - 0.03$ for a round punch, $D_{-0.03}^{0.01}$ (press-in lead) is not included.
 ⑤ $P < K < (D - 0.05) \rightarrow \ell = 0$ If $P < K < D - 0.05$ for a shaped punch, $D_{-0.03}^{0.01}$ (press-in lead) is not included.
 ⑥ $L(40) \rightarrow B = 8$ If full length is (40), tip length is 8 mm in all cases.

For a smaller diameter than listed: Shoulder Punches — Quill—
For a shorter L dimension: Shoulder Punches — Short Type—

ORDERING GUIDE



L - P W - R (,only

A - DPHDL13

80 - P10.50

W7.34 -

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