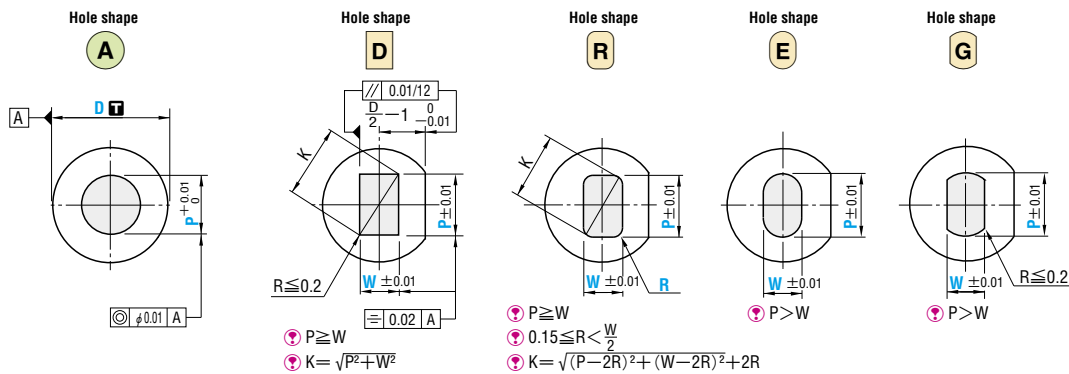


# BUTTON DIES

—STRAIGHT TYPE (ECONOMY)—

Straight type	Shank diameter D tolerance	M H	D dimension	Catalog No.	The hole shape can be selected from A D R E G below.		
	D <sub>n5</sub>	Equivalent to SKD11 60~63HRC	D6~56	<b>EMSD</b>	<b>Economy type</b> 		
			D8~56	<b>ESD</b>			
			Powdered high-speed steel 64~67 HRC	D6~25		<b>EPMSD</b>	
				D8~25		<b>EPSD</b>	
			D <sub>0</sub> <sup>+0.005</sup>	Equivalent to SKD11 60~63HRC		D6~16	<b>A-EMSD</b>
						D8~16	<b>A-ESD</b>
Powdered high-speed steel 64~67 HRC	D6~16	<b>A-EPMSD</b>					
	D8~16	<b>A-EPSD</b>					

For shank diameter tolerance D, select either n5 or 0.



D tolerance	Catalog No.	L	0.01mm increments				b	d		
			A	D R E G	R	R				
n5 $\begin{matrix} +0.013 \\ +0.008 \\ +0.016 \\ +0.010 \\ +0.020 \\ +0.012 \end{matrix}$	(Equivalent to SKD11) (D <sub>n5</sub> ) (D <sub>0</sub> <sup>+0.005</sup> ) <b>A EMSD A-EMSD</b> <b>D ESDD A-ESDD</b> <b>R ESDR A-ESDR</b> <b>E ESDE A-ESDE</b> <b>G ESDG A-ESDG</b>	(6)	16 20 22 25 28 30 32 35	1.00~ 3.00	—	—	3	3.4		
		8	16 20 22 25 28 30 32 35	1.00~ 4.00	4.00	1.00	4	4.4		
		10	16 20 22 25 28 30 32 35 (40)	2.00~ 6.00	6.00	1.20	6	6.4		
		13	16 20 22 25 28 30 32 35 (40)	3.00~ 8.00	8.00	1.50	8	8.4		
		16	16 20 22 25 28 30 32 35 (40)	5.00~ 10.00	10.00	2.00	10.6			
		20	(20) 16 20 22 25 28 30 32 35 (40)	7.00~ 12.00	12.00	3.00	12.6			
		22	16 20 22 25 28 30 32 35 (40)	8.00~ 14.00	14.00	3.00	14.6			
		25	(25) 16 20 22 25 28 30 32 35 (40)	10.00~ 16.00	16.00	3.00	16.6			
		32	(32) 16 20 22 25 28 30 32 35	15.00~ 20.00	20.00	4.00	20.6			
		38	(38) 16 20 22 25 30 35	19.00~ 26.00	26.00	5.00	26.6			
		45	(45) 20 22 25 30 35	25.00~ 35.00	35.00	6.00	36.0			
		50	(50) 20 22 25 30 35	33.00~ 40.00	40.00	7.00	41.0			
		56	(56) 20 22 25 30 35	38.00~ 45.00	45.00	8.00	46.0			
		n5 $\begin{matrix} +0.013 \\ +0.008 \\ +0.016 \\ +0.010 \\ +0.020 \\ +0.015 \end{matrix}$	(Powdered high-speed steel) (D <sub>n5</sub> ) (D <sub>0</sub> <sup>+0.005</sup> ) <b>A EPMSD A-EPMSD</b> <b>D EPSDD A-EPSDD</b> <b>R EPSDR A-EPSDR</b> <b>E EPSDE A-EPSDE</b> <b>G EPSDG A-EPSDG</b>	(6)	16 20 22 25 30 35	1.00~ 3.00	—	—	3	3.4
				8	16 20 22 25 30 35	1.00~ 4.00	4.00	1.00	4	4.4
				10	16 20 22 25 30 35	2.00~ 6.00	6.00	1.20	6	6.4
13	16 20 22 25 30 35			3.00~ 8.00	8.00	1.50	8	8.4		
16	16 20 22 25 30 35			5.00~ 10.00	10.00	2.00	10.6			
20	(20) 16 20 22 25 30 35			7.00~ 12.00	12.00	3.00	12.6			
25	(25) 16 20 22 25 30 35			10.00~ 16.00	16.00	3.00	16.6			

(6) is a specification available for shape A (round) only. It is not available for shapes D R E G.  
 D=(20), (22), (25), (32), (38), (45), (50), (56) are specifications available for shank diameter tolerance of D<sub>n5</sub> only.  
 L=(40) is a specification available for shank dia. tolerance of D<sub>n5</sub> only.

Order **Catalog No.** — **L** — **P** — **W** — **R (R only)**  
 EMSD 13 — 30 — P7.00

Days to Ship **Quotation**

Alterations **Catalog No.** — **L (LC-SLC)** — **P (PC)** — **W (WC)** — **R** — (KC-WKC, etc.)  
 ESDD 38 — 35 — P21.03 — W6.83 — KC90

Alteration	Code	A	D R E G	1Code
Alterations to shaped hole	PC	Shaped hole diameter change min.: P > PC ≥ Pmin/2 ≥ 0.50 0.01 mm increments When PC is 1.00~1.99, then b=4.	Shaped hole diameter change min.: P > PC ≥ P-Wmin/2 ≥ 1.00 0.01 mm increments	
	WC	max.: P/PC ≤ P-Kmax.+0.2 0.01 mm increments		
Alterations to full length	LC	Full length change 10 ≤ LC < L 0.1 mm increments (if combined with LKC-LKZ, 0.01 mm increments can be selected.) Press-in lead is shortened by (L-LC).		
	SLC	Changes to full length and full length tolerance are processed using a single code. The allowable range of change, increment, ordering process, and notes (P) are the same as for LC.		
	LKC	Full length tolerance change L +0.4 → +0.05 L +0.2 → 0	Full length tolerance change L +0.4 → +0.05 L +0.2 → 0	
	LKZ	Full length tolerance change L +0.4 → +0.01 L +0.2 → 0	Cannot be used for L (LC) < 16. Cannot be used for D > 25.	

Alteration	Code	A	D R E G	1Code
Others	KC	Addition of single key flat Cannot be used for D6.	Key flat position change 1° increments	
	WKC	Addition of double key flats in parallel Cannot be used for D6.	Can be combined with KC for shapes D R E G.	

Price **Quotation**