

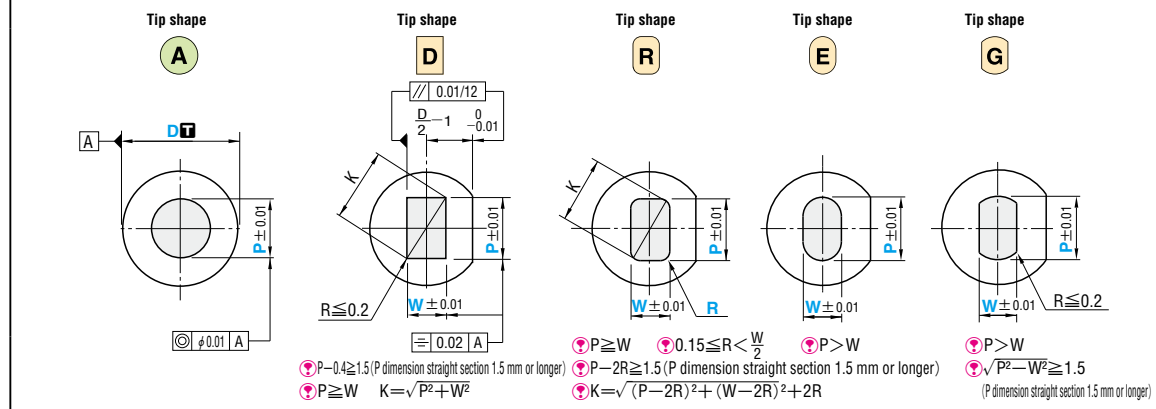
# SCRAP RETENTION REVERSE TAPER BUTTON DIES

—STRAIGHT TYPE—

Patent pending



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.
	Dn5	Equivalent to SKH51 61~64HRC Equivalent to SKD11 60~63HRC Equivalent to SKD11 60~63HRC Powdered high-speed steel 64~67HRC	D5	<b>SRT-MSD</b>	<p>Select a push-in amount of punch greater than FH dimension. Pushing in until the straight part is effective against scrap retention and scrap clogging.</p>
			D6~25	<b>SRT-SD</b>	
			D6~25	<b>SRT-PMSD</b>	
			D8~25	<b>SRT-PSD</b>	
			D5	<b>SRTA-MSD</b>	
			D6~16	<b>SRTA-SD</b>	
D+0.005/0	Equivalent to SKH51 61~64HRC Equivalent to SKD11 60~63HRC Equivalent to SKD11 60~63HRC Powdered high-speed steel 64~67HRC	D5	<b>SRTA-MSD</b>		
		D6~16	<b>SRTA-SD</b>		
		D6~16	<b>SRTA-PMSD</b>		
		D8~16	<b>SRTA-PSD</b>		



Shank diameter D tolerance	Catalog No.	L	0.01mm increments					0.005mm increments	Select	L (mm increments)	b	d		
			A	D R E G	R	MT (workpiece material thickness)	C (clearance)							
+0.013/+0.008	(Equivalent to SKH51) (Dn5) (D+0.005)	5	16 20 22 25 28 30	2.00~2.50	—	—	$C \geq 0.060$ (But $C \geq 0.050$ if the clearance is 10% or below $C \geq 0.050$ ) Clearance →	TS (Tensile strength (N/mm <sup>2</sup> )) Select the level of tensile strength Level: H 800~ M 600~ L ~599	1.0	2	2.9			
	<b>A</b> SRT-MSD SRTA-MSD	6	16 20 22 25 28 30 32 35	2.00~3.00	—	—						1.0~2.0	3	3.4
	(Equivalent to SKD11) (Dn5) (D+0.005)	8	16 20 22 25 28 30 32 35	2.00~4.00	4.00	2.00						1.0~3.0	4	4.4
	<b>A</b> SRT-MSD SRTA-MSD	10	16 20 22 25 28 30 32 35 (40)	2.00~6.00	6.00	2.00						1.0~5.0	6	6.4
	<b>D</b> SRT-SDD SRTA-SDD	13	16 20 22 25 28 30 32 35 (40)	3.00~8.00	8.00	2.00						1.0~7.0	8	8.4
	<b>R</b> SRT-SDR SRTA-SDR	16	16 20 22 25 28 30 32 35 (40)	5.00~10.00	10.00	2.00							10.6	
	<b>E</b> SRT-SDE SRTA-SDE	(20)	16 20 22 25 28 30 32 35 (40)	7.00~12.00	12.00	3.00							12.6	
	<b>G</b> SRT-SDG SRTA-SDG	(22)	16 20 22 25 28 30 32 35 (40)	8.00~14.00	14.00	3.00							14.6	
	(25)	16 20 22 25 28 30 32 35 (40)	10.00~16.00	16.00	3.00	16.6								
	+0.024/+0.015	(Powdered high-speed steel) (Dn5) (D+0.005)	6	16 20 22 25 30 35	2.00~3.00	—						—	$0.15 \leq R < \frac{W}{2}$ (R only) $MT \geq 0.5$	Level: H 800~ M 600~ L ~599
<b>A</b> SRT-PMSD SRTA-PMSD		8	16 20 22 25 30 35	2.00~4.00	4.00	2.00	1.0~3.0	4	4.4					
<b>D</b> SRT-PSDD SRTA-PSDD		10	16 20 22 25 30 35	2.00~6.00	6.00	2.00	1.0~5.0	6	6.4					
<b>R</b> SRT-PSDR SRTA-PSDR		13	16 20 22 25 30 35	3.00~8.00	8.00	2.00	1.0~7.0	8	8.4					
<b>E</b> SRT-PSDE SRTA-PSDE		16	16 20 22 25 30 35	5.00~10.00	10.00	2.00		10.6						
<b>G</b> SRT-PSDG SRTA-PSDG		(20)	16 20 22 25 30 35	7.00~12.00	12.00	3.00		12.6						
(25)		16 20 22 25 30 35	10.00~16.00	16.00	3.00	14.6								
(25)		16 20 22 25 30 35	10.00~16.00	16.00	3.00	16.6								

⚠ D = (20) (22) (25) are specifications available for shank diameter tolerance of Dn5 only  
 ⚠ Use with the clearance (C) less than 20% of the processed plate material thickness (MT), otherwise the effect will not be as expected. Clearance (C) ≤ Proceed plate material thickness (MT) × 20%  
 ⚠ 1/100 of relief taper length is as follows. Relief taper length = b - (FH + 1)  
 ⚠ L = (40) is specification available for shank dia. tolerance of Dn5 only  
 ⚠ P dimension will change if regrinding is applied. Note that the change amount varies with the taper width (max. 0.05mm on one side) and taper depth & regrinding amount.

Order **Catalog No.** — **L** — **P** — **W** — **R (Only)** — **MT** — **C** — **TS** — **FH**

SRT-SDR 13 — 35 — P5.25 — W2.82 — R0.40 — MT1.5 — C0.105 — H — FH2.0

SRT-MSB 16 — 25 — P9.2 — MT2.6 — C0.1 — L — FH1.0

Days to Ship **Quotation**

Alterations **Catalog No.** — **L (LC-SLC)** — **P (PC)** — **W (WC)** — **R** — **MT** — **C** — **TS** — **FH** — **(KC-LKC...etc.)**

SRT-SDD 13 — 35 — P5.58 — W2.25 — MT1.50 — C0.105 — H — FH2.0 — LKC

Alterations	Code	A	D R E G	1Code
Alterations to shaped hole	PC WC	Shaped hole diameter change $\min: \frac{P}{W} > \frac{PC}{WC} \Rightarrow \frac{P \cdot W \cdot \min}{2} \geq 2.00$ 0.01 mm increments		
		$\max: \frac{P}{W} < \frac{PC}{WC} \Rightarrow P \cdot K_{max} + 0.2$ 0.01 mm increments		

Alterations	Code	A	D R E G	1Code
Alterations to full length	LC	Full length change $10 \leq LC < L$ 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 (⚠) are the same as for LC. LC Full length change + LKC Full length tolerance change $L + 0.4 \begin{matrix} +0.05 \\ 0 \end{matrix}$ $L + 0.2 \begin{matrix} +0.05 \\ 0 \end{matrix}$ ⚠ 0.01 mm increments		
	LKC	Full length tolerance change $L + 0.4 \begin{matrix} +0.05 \\ 0 \end{matrix}$		
	LKZ	Full length tolerance change $L + 0.4 \begin{matrix} +0.01 \\ 0 \end{matrix}$ ⚠ Cannot be used for L(LC) < 16.		
Others	KC	Addition of single key flat ⚠ Cannot be used for D5~6		
	WKC	Addition of double key flats in parallel ⚠ Cannot be used for D5~6. ⚠ Can be combined with KC for shapes D R E G.		

Price **Quotation**

BUTTON DIES