
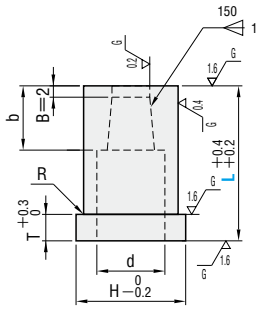

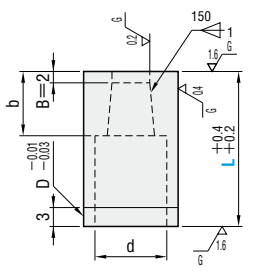


SCRAP RETENTION CARBIDE BUTTON DIES

—HEADED TYPE·STRAIGHT TYPE—



—Headed—	RoHS	M H	Shank diameter D tolerance	Catalog No.							
 <p>For shank diameter tolerance D_{m5}, select either $m5$ or $+0.005/0$.</p>			V40 (HIP) 87~88HRA	D_{m5} <ul style="list-style-type: none"> A SR-WHD D SR-WHDD F SR-WHDR E SR-WHDE G SR-WHDG 	 <table border="1" style="margin-top: 10px;"> <tr> <td>D</td> <td>4~5</td> <td>6~25</td> </tr> <tr> <td>R</td> <td>$R \leq 0.2$</td> <td>$R \leq 0.5$</td> </tr> </table>	D	4~5	6~25	R	$R \leq 0.2$	$R \leq 0.5$
				D		4~5	6~25				
R	$R \leq 0.2$	$R \leq 0.5$									
$D +0.005/0$ <ul style="list-style-type: none"> A SRA-WHD D SRA-WHDD F SRA-WHDR E SRA-WHDE G SRA-WHDG 											
—Straight—	RoHS	M H	Shank diameter D tolerance	Catalog No.							
 <p>For shank diameter tolerance D_{n5}, select either $n5$ or $+0.005/0$.</p>			V40 (HIP) 87~88HRA	D_{n5} <ul style="list-style-type: none"> A SR-WSD D SR-WSDD F SR-WSDR E SR-WSDE G SR-WSDG 							
				$D +0.005/0$ <ul style="list-style-type: none"> A SRA-WSD D SRA-WSDD F SRA-WSDR E SRA-WSDE G SRA-WSDG 							

CARBIDE BUTTON DIES

D tolerance	Catalog No.	L	0.01mm increments				C (clearance)	b	d	H	T
			A	D R E G	R	MT (workpiece material thickness)					
D	Type	D	min. P	max. P	P·Kmax.	P·Wmin.	R				
4	Headed (D _{m5})	(4)	1.00	1.50	—	—	—	2	2.0	5	3
5	SR-WHD	SR-WSD	1.00	2.50	—	—	—	2	3.0	6	
6	SR-WHDD	SR-WSDD	1.00	3.00	3.00	1.00	—	3	3.4	9	
8	SR-WHDR	SR-WSDR	1.00	4.00	4.00	1.00	—	4	4.4	11	
10	SR-WHDE	SR-WSDE	2.00	6.00	6.00	1.20	—	6	6.4	13	
13	SR-WHDG	SR-WSDG	3.00	8.00	8.00	1.50	—	6	8.4	16	5
16	SRA-WHD	SRA-WSD	5.00	10.00	10.00	2.00	—	8	10.6	19	
20	SRA-WHDD	SRA-WSDD	7.00	12.00	12.00	2.00	—	8	12.6	23	
25	SRA-WHDR	SRA-WSDR	10.00	16.00	16.00	2.00	—	8	16.6	28	

* D = (4) and (5) are specifications available for shape A (round) only. They are not available for shapes D R E G.
 * L (30) · (35) → D8~25 Full length (30) · (35) are specifications available for D8~25 only. * Can be used only for workpiece materials with tensile strengths up to 1177 N/mm² (120kgf/mm²).
 * Workpiece material thickness and clearance are used as machining data for the scrap retention. Specify the shaped hole dimensions (P·W·R) when selecting the button die finishing dimensions.

Order **Catalog No.** — L — P — W — R (R only) — MT — C
 SR-WHDR 13 — 25 — P6.50 — W4.00 — R1.00 — MT1.50 — C0.105

Days to Ship **Quotation**

P Price **Quotation**

Alterations **Catalog No.** — L (LC-SLC) — P (PC) — W (WC) — R — MT — C — (BC-HC-TC-CKC-MKC, etc.)
 SR-WHDD 10 — 25 — P5.00 — W3.20 — MT1.50 — C0.105 — TC3.0 — TKC

Alteration	Code	A				1Code
		D	R	E	G	
Alterations to shaped hole	PC	Shaped hole diameter change min.: $P > WC \geq \frac{P-W}{2} \geq 1.00$ 0.01mm increments * Cannot be combined with BC.				
	WC	max.: $W < PC \leq P \cdot Kmax. + 0.2$ 0.01mm increments				
Alterations to full length	LC	Full length change $10 \leq L - (b-1) \leq LC < L$ 0.1mm increments (If combined with LKC-LKZ-CKC-MKC, 0.01mm increments can be selected.) * b dimension is shortened by (L-LC).				Quotation
	LKC	Full length tolerance change * Cannot be used for L(LC) < 10. $L + 0.4 \Rightarrow +0.05$ $L + 0.2 \Rightarrow 0$				
Alterations to head	LKZ	Full length tolerance change * Cannot be used for L(LC) < 10. $L + 0.4 \Rightarrow +0.01$ $L + 0.2 \Rightarrow 0$				Quotation
	CKC	Changes to head thickness tolerance and full length tolerance are processed using a single code. For the machining limit, refer to the description of each alteration. * Cannot be used for L(LC) < 16. TKC Head thickness tolerance change + Full length tolerance change $T + 0.3 \Rightarrow +0.02$ $L + 0.4 \Rightarrow +0.05$ $T + 0.2 \Rightarrow 0$ $L + 0.2 \Rightarrow 0$				
	MKC	TKM Head thickness tolerance change + Full length tolerance change $T + 0.3 \Rightarrow 0$ $L + 0.4 \Rightarrow +0.05$ $T + 0.2 \Rightarrow -0.02$ $L + 0.2 \Rightarrow 0$				
	SLC	LC Full length + Full length tolerance change LKC Full length tolerance change $L + 0.4 \Rightarrow +0.05$ $L + 0.2 \Rightarrow 0$				

Alteration	Code	A				1Code
		D	R	E	G	
Alterations to head	KC	Addition of single key flat to head * Key flat position 180° * Change 1° increments				Quotation
	KWC	Addition of double key flats in parallel * Cannot be combined with KC-KFC. * Cannot be used for straight types with D4·5.				
Alterations to head	KFC	Double key flats at 0° and a selected angle * Key flat position 180° * Change 1° increments				Quotation
	HC	Head diameter change $D \leq HC < H$ 0.1mm increments				
Alterations to head	TC	Head thickness change $2 \leq TC < T$ 0.1mm increments (If combined with TKC·TKM·CKC-MKC, 0.01mm increments can be selected.) * Full length L is shortened by (T-TC). If combined with LC, full length is equal to LC.				Quotation
	TKC	Head thickness tolerance change $T + 0.3 \Rightarrow +0.02$ * Cannot be used for L(LC) < 16. $T + 0.2 \Rightarrow 0$				
Alterations to head	TKM	Head thickness tolerance change $T + 0.3 \Rightarrow -0.02$ * Cannot be used for L(LC) < 16. $T + 0.2 \Rightarrow 0$				Quotation
	SKC	Single key flat on shank * Can be used for headed types only. * Can be used for D ≥ 8 and L(LC) ≥ 20. * Cannot be combined with KC-WKC-KFC.				