

SCRAP RETENTION BLOCK DIES

—FIXING-BOLT TYPE—



Equivalent to SKD11 60 ~ 63HRC

RoHS

Catalog No.	V	H	L	P	W	R	MT	C
SR-BBD	25	13	20	P6.34	W4.65	R	MT1.50	C0.105

Hole shape A

Hole shape D

Hole shape R

Hole shape E

Hole shape G

- ⊕ If $P \geq W$
 $P - 0.4 \geq 1.5$
(P dimension straight section 1.5 mm or longer)
- ⊕ If $P < W$
 $W - 0.4 \geq 1.5$
(W dimension straight section 1.5 mm or longer)
- ⊕ If $P \geq W$
 $0.15 \leq R < \frac{W}{2}$
 $P - 2R \geq 1.5$
(P dimension straight section 1.5 mm or longer)
- ⊕ If $P < W$
 $0.15 \leq R < \frac{P}{2}$
 $W - 2R \geq 1.5$
(W dimension straight section 1.5 mm or longer)
- ⊗ P=W cannot be selected.
- ⊕ If $P < W$, pay particular attention to hole shape.
- ⊗ P cannot be selected.
- ⊕ If $P > W$
 $\sqrt{W^2 - P^2} \geq 1.5$
(P dimension straight section 1.5 mm or longer)
- ⊕ If $P < W$
 $\sqrt{W^2 - P^2} \geq 1.5$
(W dimension straight section 1.5 mm or longer)
Pay particular attention to hole shape.

⊕ For the lift-out tap hole, use a bolt 1 size larger than the mounting bolt.

Mounting bolt	M (Lift-out tap hole)
M3	M4
M4	M5
M6	M8
M8	M10

K	Mounting bolt			J	Catalog No.	V	H	L	0.01mm increments				MT	C	Base unit price		
	d	h	Size						A	D	R	E			G	1 ~ 9 pieces	
	min. P max.	min. P max.	min. W max.						R	MT	C	SR-BBD			SR-BBD		
4	6	7.5	M3	3	SR-BBD	13	8	16	1.00 ~ 3.00	1.00 ~ 3.00	1.00 ~ 4.00	MT ≥ 0.15	C ≥ 0.010	SR-BBD	SR-BBD		
				4		1.00 ~ 4.00			1.00 ~ 4.00								
				5		1.00 ~ 6.00			1.00 ~ 6.00								
				6.5		1.00 ~ 9.00			1.00 ~ 9.00								
5	8	8.5	M4	4	SR-BBD	18	10	16	1.00 ~ 4.00	1.00 ~ 4.00	1.00 ~ 6.00	MT ≥ 0.15	C ≥ 0.010	SR-BBD	SR-BBD		
				5		1.00 ~ 6.00			1.00 ~ 6.00								
				6.5		1.00 ~ 9.00			1.00 ~ 9.00								
				8		1.00 ~ 12.00			1.00 ~ 12.00								
6.5	11	10.5	M6	5	SR-BBD	22	13	22	1.00 ~ 6.00	1.00 ~ 6.00	1.00 ~ 9.00	MT ≥ 0.15	C ≥ 0.010	SR-BBD	SR-BBD		
				6.5		1.00 ~ 9.00			1.00 ~ 9.00								
				8		1.00 ~ 12.00			1.00 ~ 12.00								
				10		1.00 ~ 16.00			1.00 ~ 16.00								
8	14	12.5	M8	8	SR-BBD	32	25	35	1.00 ~ 12.00	1.00 ~ 12.00	1.00 ~ 12.00	MT ≥ 0.15	C ≥ 0.010	SR-BBD	SR-BBD		
				10		1.00 ~ 16.00			1.00 ~ 16.00								
				12.5		1.00 ~ 21.00			1.00 ~ 21.00								
				15		1.00 ~ 26.00			1.00 ~ 26.00								

⊕ Can be used only for workpiece materials with tensile strengths up to 1177 N/mm² (120 kgf/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 block die finishing dimensions.

Order

(1) If shaped hole is at center of shank

Catalog No. V H L P W R (R only) MT C

SR-BBD 25 13 20 P6.34 W4.65 MT1.50 C0.105

(2) If shaped hole is not at center of shank (hole shapes A only)

Catalog No. V H L P MT C X-Y

SR-BBD 25 13 20 P6.34 MT1.50 C0.105 X6.35 Y9.5

⊕ Upper and lower limit values of X and Y

Hole shapes A $2.5 + \frac{P}{2} \leq X \leq V - (2.5 + \frac{P}{2}) - (K + \frac{d}{2})$ $2.5 + \frac{P}{2} \leq Y \leq H - (2.5 + \frac{P}{2})$

⊕ X, Y tolerance: ±0.005

⊕ Be aware that the shaped hole position and X/Y values are determined differently for block punches.

Days to Ship **Quotation**

Price **Quotation**

Alterations Catalog No. V H L(LC) P-W-R MT C (BC-LKC, etc.)

SR-BBD 25 13 LC18 P1.5 0.5 0.04 BC3 LKC ANF1.2

Alteration	Code	A	D R E G	1Code
Alterations to shaped hole	BC	Shaped hole depth change $1 \leq BC \leq B_{max}$ 0.1mm increments $\frac{P}{1.00 \sim 1.99} \frac{B_{max}}{3}$ $\frac{P}{2.00 \sim 4}$	Shaped hole depth change $1 \leq BC < 2$ 0.1mm increments	Quotation
	PKC	Shaped hole tolerance change $P + 0.01 \rightarrow +0.005$ 0	Shaped hole tolerance change $P - W \pm 0.01 \rightarrow +0.01$ 0	
Alterations to full length	LC	Full length change $16 < LC < 35$ 0.1mm increments (If combined with LKC-LKZ, 0.01mm increments can be selected.)		Quotation
	LKC	Full length tolerance change $+0.4 \rightarrow +0.05$ $L + 0.2 \rightarrow 0$		
	LKZ	Full length tolerance change $+0.4 \rightarrow +0.01$ $L + 0.2 \rightarrow 0$		

Alteration	Code	A	D R E G	1Code														
Others	VKC1	V-H tolerance change $V \cdot H + 0.01 \rightarrow +0.005$ 0		Quotation														
	VKC2	V-H tolerance change $V \cdot H + 0.01 \rightarrow -0.005$ 0																
	NDC	No press-in lead																
	ANF	Angular angle change $0 \leq ANF \leq 1.2$ 0.2° increments $d \leq d_{max}$ $d = P + 2 \cdot (L - B) \cdot \tan(ANF)$ $P - B \cdot \tan(ANF) \geq 0.6$ $W - B \cdot \tan(ANF) \geq 0.6$ ⊗ Cannot be used if shaped hole is not at the center.	<table border="1" style="font-size: small;"> <thead> <tr> <th>H</th> <th>d max.</th> </tr> </thead> <tbody> <tr><td>8</td><td>4.4</td></tr> <tr><td>10</td><td>6.4</td></tr> <tr><td>13</td><td>8.4</td></tr> <tr><td>16</td><td>10.6</td></tr> <tr><td>20</td><td>12.6</td></tr> <tr><td>25</td><td>14.6</td></tr> </tbody> </table>	H	d max.	8	4.4	10	6.4	13	8.4	16	10.6	20	12.6	25	14.6	
H	d max.																	
8	4.4																	
10	6.4																	
13	8.4																	
16	10.6																	
20	12.6																	
25	14.6																	

Example **Features**

- Maintenance is possible without disassembling the die.
- The use of shims allows fine adjustment even after the is assembled.

