


PUNCH GUIDE BUSHINGS

—BLOCK BUSHINGS, FIXING-BOLT TYPE/FLANGE TYPE—

—Block bushings, fixing-bolt type—

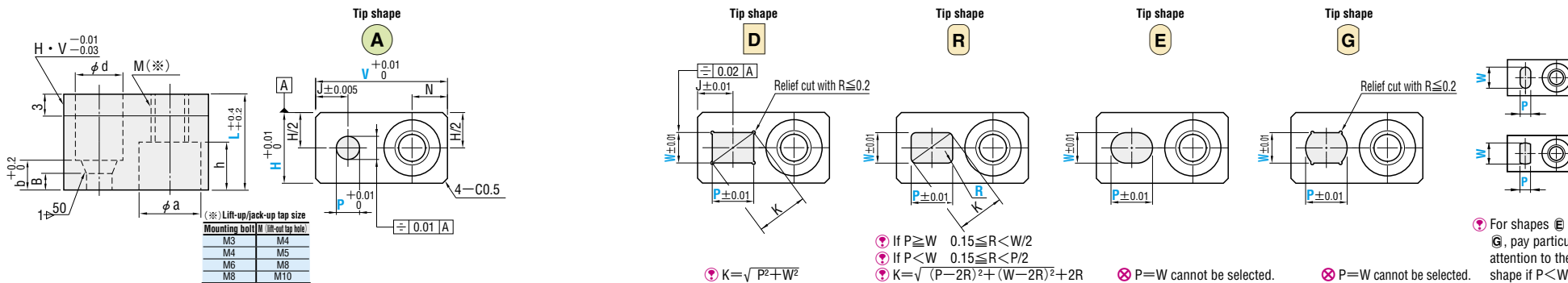


RoHS

Catalog No.

Equivalent to SKD11 60~63HRC


A BBG
D BBGD
R BBGR
E BBGE
G BBGG



Tip shape **A**, **D**, **R**, **E**, **G**

$K = \sqrt{P^2 + W^2}$
 $P \geq W$
 $0.15 \leq R < W/2$
 $P = W$ cannot be selected.

—Block, flange type—

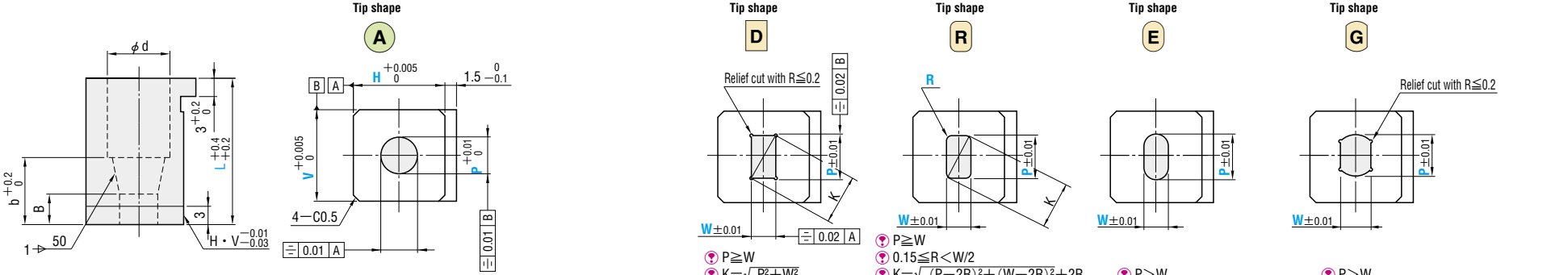


RoHS

Catalog No.

Equivalent to SKD11 60~63HRC

A BGF
D BGFD
R BGFR
E BGFE
G BGFG



Tip shape **A**, **D**, **R**, **E**, **G**

$K = \sqrt{P^2 + W^2}$
 $P \geq W$
 $0.15 \leq R < W/2$
 $P > W$

■ Block: fixing-bolt type

B	b	d	N	Mounting bolt			J	Catalog No.	V	H	L	0.01mm increments				Base unit price for 1~9 pieces
				a	h	Size						A	D R E G	R	BBG	
4	8	4.4	4	6	7.5	M3	4	A BBG D BBGD R BBGR E BBGE G BBGG	16	8	16 20 22 25 30 35	1.00~ 4.00	4.00	1.00	Quotation $0.15 \leq R < \frac{W}{2}$ (R only)	
		6.4	5	8	8.5	M4	4		18	10	16 20 22 25 30 35	1.00~ 6.00	6.00	1.00		
		8.4	6.5	11	10.5	M6	6.5		25	13	16 20 22 25 30 35	1.00~ 8.00	8.00	1.00		
10.6	8	14	12.5	M8	10	35	20	16 20 22 25 30 35	1.50~ 13.00	13.00	1.50					
6	10	13.8	8	14	12.5	M8	10	40	25	16 20 22 25 30 35	1.50~ 16.00	16.00	1.50			
		16.8	12.5													

R (Note) → If $P < W$, allowable range is $0.15 \leq R < P/2$.

■ Block: flange type

B	b	d	Catalog No.	V	H	L	0.01mm increments				Base unit price for 1~9 pieces
							A	D R E G	R	BGF	
4	8	4.4	A BGF D BGFD R BGFR E BGFE G BGFG	6	6	16 20 22 25 30 35	1.00~ 3.00	3.00	1.00	Quotation $0.15 \leq R < \frac{W}{2}$ (R only)	
		6.4		8	8	16 20 22 25 30 35	1.00~ 4.00	4.00	1.00		
		8.4		10	10	16 20 22 25 30 35	1.00~ 6.00	6.00	1.00		
6	10	11.0	13	13	16 20 22 25 30 35	1.00~ 8.00	8.00	1.00			
		14.0	16	16	16 20 22 25 30 35	1.00~ 10.00	10.00	1.00			
		17.0	20	20	16 20 22 25 30 35	1.50~ 13.00	13.00	1.50			
	21.0	25	25	16 20 22 25 30 35	1.50~ 16.00	16.00	1.50				

ⓐ ⓓ shapes: $P \geq W$ ⓑ ⓔ ⓖ shapes: $P > W$

Order Catalog No. V H L P W R (R only) Days to Ship **Quotation**

BBGE 25 13 - 20 - P6.34 - W4.65
 BGFR 20 20 - 16 - P9.50 - W2.50 - R0.25

ⓓ If $P < W$, pay particular attention to the tip shape.

Price **Quotation**

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

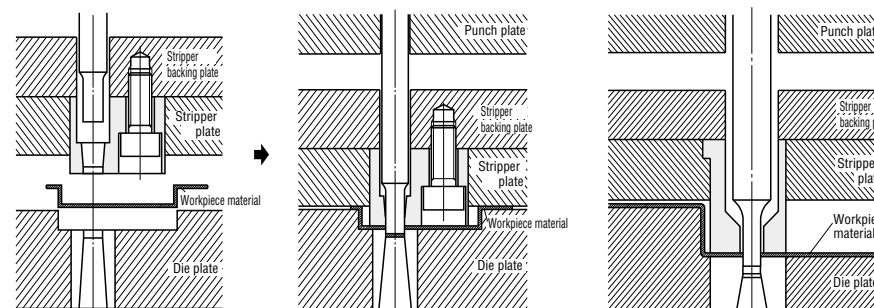
BBG 25 13 - LC18 - P1.50 - BC3-LKC

Alteration	Code	A	D R E G	1Code
Alterations to guide	BC	Guide length change $1 \leq BC \leq b$ 0.1mm increments		
Alterations to full length	PKC	Tip diameter tolerance change $P + 0.01 \rightarrow +0.005$ $0 \rightarrow 0$	Tip diameter tolerance change $P - W \pm 0.01 \rightarrow +0.01$ $0 \rightarrow 0$	Quotation
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.) Full length change $10 \leq L - (B-1) \leq LC < L$ If $LC \leq 12$, press-in lead is not included for single flange types. 0.1mm increments. (If combined with LKC, 0.01mm increments can be selected.) ⓓ Dimension b is shortened by $(L-LC)$.		Quotation

Alteration	Code	A	D R E G	1Code
Alterations to full length	LKC	Full length tolerance change $L + 0.4 \rightarrow +0.05$ $+0.2 \rightarrow 0$		
Alterations to full length	LKZ	Full length tolerance change $L + 0.4 \rightarrow +0.01$ $+0.2 \rightarrow 0$		Quotation
Others	VK1	V-H tolerance change $V - H + 0.01 \rightarrow V - H + 0.005$ $0 \rightarrow 0$ ⓓ Cannot be used for flange types.		Quotation
	VK2	V-H tolerance change $V - H + 0.01 \rightarrow V - H - 0.005$ $0 \rightarrow 0$ ⓓ Cannot be used for flange types.		
	NDC	No press-in lead		
	TKC	Head thickness tolerance change $L + 0.3 \rightarrow +0.02$ $0 \rightarrow 0$ ⓓ Cannot be used for fixing-bolt types.		

Example **Features**

- Shims and other items can be used to make fine position adjustments. Shim tape FGSM-FGSM P.840 Spacer layer plate LHP P.839 Precision multipurpose plate UTPB P.841
- Can be used also as the cavity insert for a stripper plate.



Example of use as workpiece holder after bending process