

BENDING DIES

—FIXING-BOLT TYPE—

RIB PUNCHES

RoHS **BBMD**

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

Equivalent to SKD11
60~63HRC

K	Mounting bolt			J	Catalog No.	V	H	L	P	Base unit price 1~9 pieces
	d	h	Size							
4	6	7.5	M3	3	BBMD	13	8	16	2	Quotation
				4		16				
				5		18				
				6.5		20				
				8		22				
5	8	8.5	M4	4	18	10	20	4	Quotation	
				5	22					
				6.5	25					
				8	28					
6.5	11	10.5	M6	5	22	13	25	6	Quotation	
				6.5	25					
				8	28					
				10	32					
				6.5	25					
				8	28					
				10	32					
8	14	12.5	M8	8	32	16	30	8	Quotation	
				10	35					
				12.5	40					
				15	45					
				10	35					
				12.5	40					
				15	45					
				17.5	50			10		

EX Example

(Example 1) (Example 2)

Screw a bolt into the lift-out tap hole and pull the die away from the die plate.

Screw a bolt into the lift-out tap hole and pull the die up the die.

Order

(1) If the center of lifter pin hole is at the standard position (J, H/2) **BBMD 25 13 - 20 - P2**

(2) If the lifter pin hole position is specified (X, Y) **BBMD 25 13 - 20 - P2 - X4.60 - Y3.20**

0.01mm increments

Available area for lifter pin hole

0.01mm increments for both X and Y

Days to Ship **Quotation**

Alterations **Price** **Quotation**

Catalog No. **BBMD 25 13 - LC18.0 - P2 - PKC**

Alteration	Code	Spec.	1Code
	LC	Full length change 16 < LC < 35 0.1mm increments (If combined with LKC, 0.01mm increments can be selected.)	Quotation
	PKC	P dimension tolerance change P+0.2 ⇨ P+0.10 +0.1 ⇨ +0.05	
	CC	C0.5 chamfering to 4 outer (V-H) corners	

Alteration	Code	Spec.	1Code
	LKC	Full length tolerance change L+0.4 ⇨ +0.05 +0.2 ⇨ 0	Quotation
	VKC1	V-H tolerance change V-H+0.01 ⇨ V-H+0.005 0 ⇨ 0	
	VKC2	V-H tolerance change V-H+0.01 ⇨ V-H-0.005 0 ⇨ 0	
	NDC	No press-in lead	

For sinking **RoHS** **RASP**

RAMP

Equivalent to SKD11
60~63HRC

H	M×L ₂	Catalog No.		0.1mm increments		selection	0.5mm increments	0.1mm increments	Base unit price
		Type	D	L	T				
11	4×8	RASP RAMP	8	25.0~70.0	D ≤ T ≤ D-2	30	1 ≤ R ≤ 5 or R0	0 ≤ F ≤ 1/2 RAMP... L ₂ +6 ≤ F ≤ 1/2	1~9 pieces
13	5×10		10	30.0~70.0					
16	6×12		13	30.0~70.0					
19			16	35.0~70.0					
23			20	40.0~70.0					
28		25	45.0~70.0						

For V-bending **RoHS** **RBSP**

RBMP

Equivalent to SKD11
60~63HRC

H	M×L ₂	Catalog No.		1° increments	0.1mm increments	Base unit price
		Type	D			
11	4×8	RBSP RBMP	8	20.0~70.0	A ≥ 20	0.5 ≤ R ≤ 5 or R0
13	5×10		10	30.0~70.0		
16	6×12		13	30.0~70.0		
19			16	40.0~70.0		
23			20	40.0~70.0		
28		25	40.0~70.0			

Order

For sinking Catalog No. **RASP 10 - 50.0 - T5.0-A60-R1.0-F20.0**

For V-bending Catalog No. **RBSP 10 - 50.0 - A30-R0.5**

Days to Ship **Quotation** **Price** **Quotation**

Alterations Catalog No. **RASP 10 - 50.0 - T5.0-A60-R1.0-F20.0 - HC12.0-TC4.0**

Alteration	Code	Spec.	1Code
	HC	Head diameter change D ≤ HC < H 0.1mm increments	Quotation
	TC	Head thickness change 2 ≤ TC < 5 0.1mm increments	
	KC	Addition of single key flat - Position change •RASP-RBSP 1° increments •RAMP-RBMP 1° increments	

Alteration	Code	Spec.	1Code
	WKC	Addition of double key flats in parallel •RASP-RAMP •RBSP-RBMP	Quotation
	SKC	Key flat on shank	