

BLOCK PUNCHES (FOR HEAVY LOAD)

— FLANGE THICKNESS 10mm • TiCN COATING —



—TiCN coating—

●Tip machining limit

RoHS

D
R
E
G

$W \leq P \leq W \times 20$ $W \leq P \leq W \times 20$ $W \leq P \leq W \times 20$ $W < P \leq W \times 20$
 $R=0$ can be selected. $0.15 \leq R < W/2$
 0.01mm increments

Even when $P=V$ and $W=H$, the tip tolerance is determined by the P and W tolerances.
 The tip end is ground before the coating is applied.

Single flange
 Details of flange: $R=0.8 \sim 1.0$, $R10$
 Dimensions: H , W , P , R , L , B , V , G
 Tip shapes: D, R, E, G

Double flanges
 Details of flange: $R=0.8 \sim 1.0$, $R10$
 Dimensions: H , W , P , R , L , B , V , G
 Tip shapes: D, R, E, G

Catalog No.	Type	Tip shape	Tip length	H	P min.	W min.	V												L	B	
							3	4	5	6	8	10	13	16	20	22	25	28		30	6
Single flange H—AHSF H—APHF	D	S	(2)	1.0	○	○	○	○	○	○	○	○	○	○	○	○	50	6	8		
			(3)	1.0	○	○	○	○	○	○	○	○	○	○	○	○					
	R	(4)	1.0	○	○	○	○	○	○	○	○	○	○	○	○						
		(5)	1.2	○	○	○	○	○	○	○	○	○	○	○	○						
Double flanges H—AHSW H—APHW	E	L	(6)	1.5	○	○	○	○	○	○	○	○	○	○	○	70	8	13			
			(8)	2.0	○	○	○	○	○	○	○	○	○	○	○						
	G	(10)	2.5	○	○	○	○	○	○	○	○	○	○	○	○						
		(13)	3.0	○	○	○	○	○	○	○	○	○	○	○	○						

⊙ H (2) (3) (4) ... L50~70 If H dimension is (2), (3) or (4), full length L is within a range of 50~70.

Order

■ The flange position is fixed.

(1) If tip is at center of shank

Catalog No. V H L — P — W — R (R only)
 H—APHWES 08 08 — 60 — P7.00 — W6.00

(2) If tip is not at center of shank

Catalog No. V H L — P — W — R (R only) — X—Y
 H—APHWEL 10 10 — 60 — P6.00 — W5.00 — X0.00—Y0.10

⊙ X and Y must be set either to 0 or to 0.02 or more. Tolerance ±0.01

Alterations

Catalog No. V H L (LC) — P/PC—W/WC—R — X—Y — (BC/LKC, etc.)

H—APHFES 10 10 — LC58.5 — P8.00—W6.00 — HC1.5

Price

Quotation

Alteration	Code	Spec.	1Code													
Alterations to tip	PC	Tip dimension change $PC \geq V \times 0.3 \geq 1.00$ $WC \geq H \times 0.15 \geq 0.50$ 0.01mm increments														
	WC	<table border="1"> <tr> <th>W (WC)</th> <th>Bmax</th> </tr> <tr> <td>0.50~0.99</td> <td>4</td> </tr> <tr> <td>1.00~1.19</td> <td>8</td> </tr> <tr> <td>1.20~1.99</td> <td>13</td> </tr> <tr> <td>2.00~2.99</td> <td>20</td> </tr> <tr> <td>3.00~4.99</td> <td>30</td> </tr> <tr> <td>5.00~</td> <td>35</td> </tr> </table>	W (WC)	Bmax	0.50~0.99	4	1.00~1.19	8	1.20~1.99	13	2.00~2.99	20	3.00~4.99	30	5.00~	35
W (WC)	Bmax															
0.50~0.99	4															
1.00~1.19	8															
1.20~1.99	13															
2.00~2.99	20															
3.00~4.99	30															
5.00~	35															
Alterations to full length	BC	Tip length change $2 \leq BC \leq Bmax$ 0.1mm increments														
	LC	Full length change $36 + B (BC) \leq LC < L$ 0.1mm increments (If combined with LKC, 0.01mm increments can be selected.) ⊙ If difference between full length (LC) and tip length (B) is 36mm or less, tip length is adjusted to (Full length-36).														
Alterations to flange	LKC	Full length tolerance change $L +0.2 \Rightarrow +0.05$ $0 \Rightarrow 0$														
	HC	Flange width change $1.0 \leq HC < 2.0$ 0.1mm increments														
Alterations to shape	TC	Flange thickness change $5 \leq TC < 10$ 0.1mm increments (If combined with TKC, 0.01mm increments can be selected.) ⊙ Full length L is shortened by (10-TC). If combined with LC, full length is equal to LC.	Quotation													
	RE	Flange R change $R=0.8 \sim 1.0 \Rightarrow R \leq 0.3$														
	FK	Relief chamfering to flange top edge Flange edge is chamfered to prevent flange breakage.														
	TKC	Flange tolerance change $T +0.2 \Rightarrow +0.02$ $0 \Rightarrow 0$														
	TKM	Flange tolerance change $T +0.2 \Rightarrow 0$ $0 \Rightarrow -0.02$														
	CC	Chamfering to four corners of shank The four corners of shank are chamfered to C0.5. The distance between shank corners and the tip must be 0.5mm or more. ⊙ Chamfering of the flange base R portion is not performed.														
Alterations to shape	VKC	Shank tolerance change $V \cdot H +0.01 \Rightarrow +0.005$ $0 \Rightarrow 0$														
	VKM	Shank tolerance change $V \cdot H +0.01 \Rightarrow 0$ $0 \Rightarrow -0.005$														
	VHM	Shank tolerance change $V \cdot H +0.01 \Rightarrow 0$ $0 \Rightarrow -0.01$														
	VHZ	Shank tolerance change $V \cdot H +0.01 \Rightarrow \pm 0.005$														

■ Features

These block punches have greater flange strength than ordinary block punches. Use them for punching of heavy loads or high-tensile steels where punch flanges are prone to damage.

Comparison of flange dimensions		Unit mm	
Type	Thickness	Width	Base R
Ordinary type	5	1.5	0.3 or less
Flange thickness 10mm	10	2.0	0.8~1.0

Days to Ship

Quotation