

CARBIDE BLOCK PUNCHES WITH AIR HOLES

RoHS

• Tip machining limit

Tip shape	Tip shape	Tip shape
D	R	E
$P \geq W$	$P \geq W$	$P > W$
	$0.15 \leq R < \frac{W}{2}$	

Shank dimensions V·H	Type	Normal		
		D ZJDBL	R ZJRBL	E ZJEBL
V30 (HIP) 88~89HRA V·H 5~20				
Shank dimensions V·H	Type	With key groove		
		D ZJDKL	R ZJRKL	E ZJEKL
V30 (HIP) 88~89HRA V·H 5~20				
Shank dimensions V·H	Type	Single flange		
		D ZJDFL	R ZJRFL	E ZJEFL
V30 (HIP) 88~89HRA V·H 5~16 <small>Cannot be used for products marked with ● in the specification table.</small>				
Shank dimensions V·H	Type	Double flanges		
		D ZJDWL	R ZJRWL	E ZJEWL
V30 (HIP) 88~89HRA V·H 5~16 <small>Cannot be used for products marked with ● in the specification table.</small>				

Catalog No.	Shank / tip dimensions (mm)								L	T	B			d1×S			d2	U		
	Type	Tip shape	Type	V	H	L	P	W			R	L	L	L	L	L			L	
ZJ	D	BL	5	2.5	5	5	5	5	5	40	T _{≥2.0}	13	13	13	0.8×17	0.8×20	2.1	1.0		
			6	2.5	6	6	6	6	6				6	1.2×17	1.2×27	2.6				
			8	2.5	8	8	8	8	8				8	8	8	8	1.6×17	1.6×28	3.4	1.5
			10	3.0	10	10	10	10	10				10	10	10	10	1.9×17	1.9×28	4.4	
			13	3.5	13	13	13	13	13				13	13	13	13	2.9×17	2.9×24	2.9×36	
			16	4.5	16	16	16	16	16				16	16	16	16	16	16	16	
			20	5.0	20	20	20	20	20				20	20	20	20	20	20	20	20

Order

(1) If tip is at center of shank

Catalog No. V H L P W R (R only) T_{≥2} K·F·WF

0.01mm increments

ZJEBL	20	08	60	P18.00	W4.00				
ZJEKL	10	06	60	P8.00	W5.00				
ZJEFL	16	13	60	P15.00	W12.00				
ZJEWL	13	10	40	P8.00	W5.00				
ZJRBL	08	08	50	P5.00	W3.00				R0.15

— T25.5 — K0
— F90
— WF90

(2) If tip is not at center of shank: Cannot be changed. (Cannot be manufactured.)

Key groove position specified

Flange position specified

Tip shape E can be selected for F0, WF0 only.

For F90-WF90, H dimension is as shown below.

Tip shape D: $2 \leq W$ H=W

Tip shape R: $2 \leq W-2R-1$ H=W-2R-1

Days to Ship Quotation

Price Quotation

Alterations Catalog No. V H L(LC) P·W·R T K·F·WF (BC·HC·TC, etc.)

ZJEBL 20 08 60 P18.00-W3.00 - VKC

Alteration	Code	Spec.	1Code
Alterations to tip	BC	Tip length change (shorter than standard) $2 \leq BC < B$ 0.1mm increments	
	PKC PKV	Tip tolerance change $P \cdot W +0.01 \rightarrow +0.005$ $P \cdot W +0.01 \rightarrow \pm 0.005$	
Alterations to full length	LC	Full length change $LC < L$ 0.1mm increments (If combined with LKC·LKZ, 0.01mm increments can be selected.) Tip length B is shortened by (L-LC).	
	LCX	Full length change with no change to tip length $30+B(BC) \leq LCX < L$ 0.1mm increments (If combined with LKC or LKZ, 0.01mm increments can be selected. Cannot be used for Flanged types.)	
	LKC	Full length tolerance change $L +0.3 \rightarrow +0.05$ $L +0.1 \rightarrow 0$	
	LKZ	Full length tolerance change $L +0.3 \rightarrow +0.01$ $L +0.1 \rightarrow 0$	
Alterations to flange	HC	Flange width change $0 \leq HC < 1.5$ 0.1mm increments	
	TC	Flange thickness change $2 \leq TC < 5$ 0.1mm increments (If combined with TKC·TKM, 0.01mm increments can be selected.) Full length L is shortened by (5-TC). If combined with LC, full length is equal to LC.	
	TKC	Flange thickness tolerance change $T +0.2 \rightarrow +0.02$ $T +0.2 \rightarrow 0$	
	TKM	Flange thickness tolerance change $T +0.2 \rightarrow 0$ $T +0.2 \rightarrow -0.02$	
	FK	Relief chamfering to flange top edge Flange edge is chamfered to prevent flange breakage.	
	RTC	Key groove position tolerance change $T -0.02 \rightarrow +0.05$ $T -0.02 \rightarrow 0$	
Key groove	UK	Key groove depth change 0.1mm increments $0.5 \leq UK \leq U +0.2$ H(V) - UK _{≥2.0} Can be used for key groove types.	

Alteration	Code	Spec.	1Code
Others	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.	
	CCP	Chamfering to one corner of shank (for error prevention) One corner of shank is chamfered to C1.0. Can be used if distances a and b from tip corners to shank meet the following conditions. $a+b \geq 1.3$	
	VKC VKM VHM	Shank tolerance change $V \cdot H +0.005 \rightarrow +0.003$ $V \cdot H +0.005 \rightarrow 0$ $V \cdot H +0.005 \rightarrow -0.003$ $V \cdot H +0.005 \rightarrow 0$ $V \cdot H +0.005 \rightarrow -0.005$	
	DC	Addition of press-in lead 3mm (V·H -0.01 -0.03) Cannot be used for flanged types.	