

CARBIDE BLOCK DIES

CARBIDE BLOCK DIES



Product name
Catalog No.

CARBIDE BLOCK DIES
—STRAIGHT, SINGLE FLANGE—

SCRAP RETENTION
CARBIDE BLOCK DIES

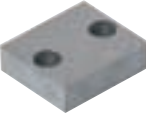
CARBIDE BLOCK DIES
—CONFIGURABLE SIZE—

Page

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SCRAP RETENTION
CARBIDE BLOCK DIES (CONFIGURABLE SIZE)

CARBIDE BLOCK DIE BLANKS
WB LDB WB LDBF

CARBIDE BLOCK DIE BLANKS
ZD ZDA ZD B ZD C

522

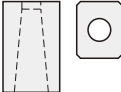
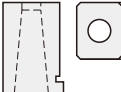
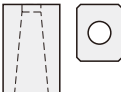
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CARBIDE BLOCK DIES

—GUIDE—

■ Carbide block dies list

Block die type			Shape tolerance	Without scrap retention			With scrap retention		
				Round	Shaped	Page	Round	Shaped	Page
Carbide block dies straight		V40 (HIP)	$V \cdot H^{+0.005}_0$	WB LD	WB LD 	P.517	SR—WB LD	SR—WB LD 	P.519
Carbide block dies with single flange		V40 (HIP)	$V \cdot H^{+0.005}_0$	WB LDF	WB LD  F	P.517	SR—WB LDF	SR—WB LD  F	P.519
Carbide block dies (configurable size)		V40 (HIP)	$V \cdot H^{+0.005}_0$	WF BD	WF BD 	P.521	SR—WF BD	SR—WF BD 	P.521

■ Scrap retention block dies (For details, see P.1103)

● Applicable range

- Hole diameter: $\phi 1.0 \sim \phi 16$
- Workpiece material: Can be used for materials up to a maximum tensile strength to $1,177\text{N/mm}^2$ (120kgf/mm^2).
- Thickness of workpiece material: Minimum thickness 0.15mm
- Scrap retention effects cannot be expected when the clearance (C) is larger than the workpiece material thickness (MT) by more than 20%. Therefore, keep the difference to 20% or less.

$$\text{Clearance on one side (C)} < \text{Workpiece material thickness (MT)} \times 20\%$$

- ⚠ Because scrap retention block dies prevent scrap lifting by forming small projections on punching scrap, they are not suitable in cases such as punching of precision holes, or when the punched-out item becomes the product.

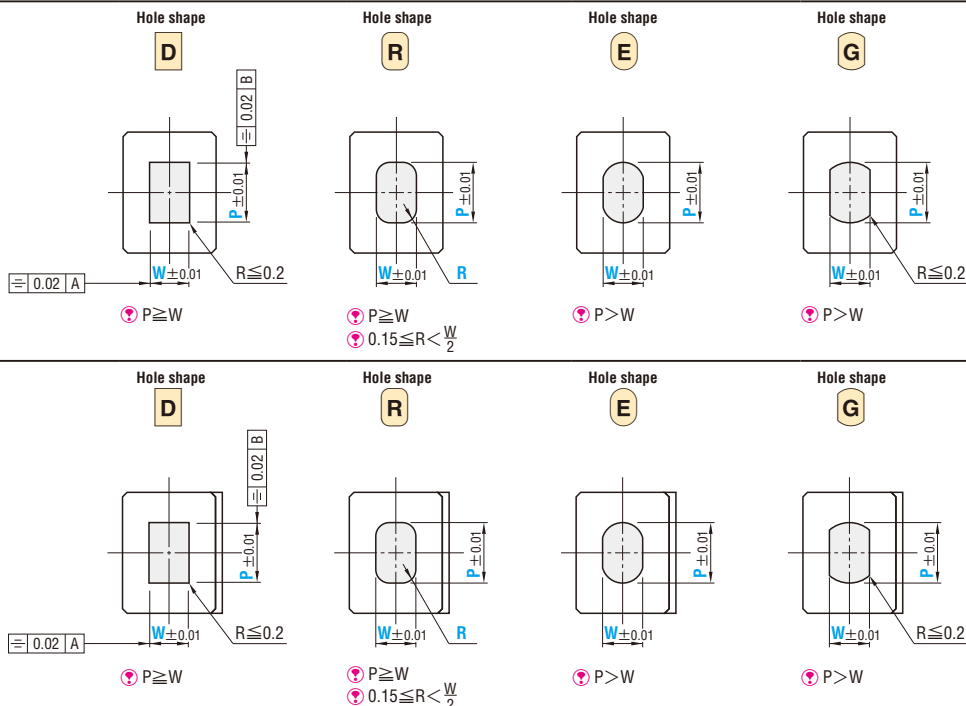
—STRAIGHT TYPE • SINGLE FLANGE TYPE—

Catalog No.		H	V		6	8	10	13	16	20	25	R	L
			min. W max.	min. P max.	1.00 3.00	1.00 4.00	1.00 6.00	1.00 8.00	1.00 10.00	1.50 12.00	1.50 16.00	R	
					R								
Straight	Single flange	6	1.00~ 3.00	○	○	○	○	○	○	○	○	0.15 ≤ R < $\frac{W}{2}$ (R only)	16
A WBLD	WBLDF	8	1.00~ 4.00		○	○	○	○	○	○	○		20
D WBLDD	WBLDDF	10	1.00~ 6.00			○	○	○	○	○	○		22
R WBLDR	WBLDRF	13	1.00~ 8.00				○	○	○	○	○		25
E WBLDE	WBLDEF	16	1.00~ 10.00					○	○	○	○		30
20 WBLD20	WBLD20F	20	1.50~ 12.00						○	○	○		35
G WBLDG	WBLDGF	25	1.50~ 16.00							○	○		

● P.W.R...→0.01mm increments



Quotation



Order

Catalog No.

V

H

L

0.01mm increments

P

W

R (R only)

WBLDR

13

10

20

P6.34

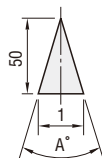
W4.65

R1.50



Days to Ship

Quotation

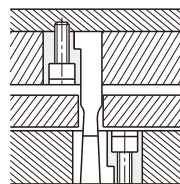


• $\frac{1}{50}$ indicates a taper in which the diameter increases by 1mm over 50mm of length.

Taper	1/50
Angle (A°)	1.146°

Flange holder **P.365**

HFW



Alterations



Catalog No.

V

H

L (LC)

P

W

R

(BC-HC, etc.)

WBLDF

08

06

20

P1.20

PKC

ANF1.2

Alteration	Code	A	D R E G	1Code
Alterations to shaped hole	BC	Shaped hole depth change $0 \leq BC \leq 4$ 0.1mm increments		
	PKC	Shaped hole tolerance change $P + 0.01 \rightarrow +0.005$ 0	Shaped hole tolerance change $P \cdot W \pm 0.01 \rightarrow +0.01$ 0	
	HVC	H and V are reversed relative to shaped hole. P dimension is machined in direction H and W dimension is machined in direction V. P → min. W max.		
Alterations to full length	LC	Full length change $10 \leq LC \leq L$ 0.1mm increments (If combined with LKC-LKZ, 0.01mm increments can be selected.) For single flange types, if LC ≤ 12 then press-in lead is not included.		
	LKC	Full length tolerance change $L + 0.4 \rightarrow +0.05$ 0		
	LKZ	Full length tolerance change $L + 0.4 \rightarrow +0.01$ 0		

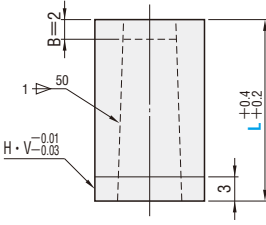
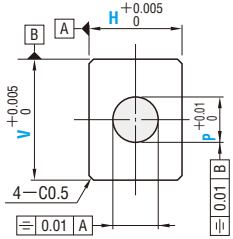
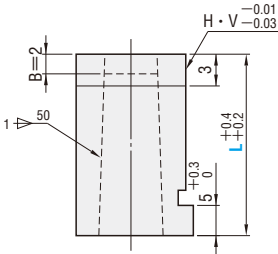
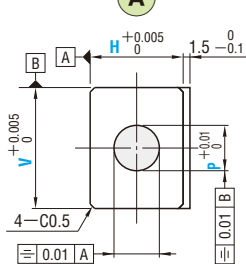
Quotation

Alteration	Code	A	D R E G	1Code
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 is shortened by (5-TC). If combined with LC, full length is equal to LC.		
	TKC	Flange thickness tolerance change $T + 0.3 \rightarrow +0.003$ 0		
	TKM	Flange thickness tolerance change $T + 0.3 \rightarrow +0.003$ 0		
	VKC	Shape tolerance change $H \cdot V + 0.005 \rightarrow +0.003$ 0		
Others	VKM	Shape tolerance change $H \cdot V + 0.005 \rightarrow +0.003$ 0		
	VHM	Shape tolerance change $H \cdot V + 0.005 \rightarrow +0.003$ 0		
	ANF	Angular angle change $0 \leq ANF \leq 1.2$ 0.2° increments $d \leq d_{max}$ $d = P + 2 \cdot (L - B) \tan (ANF^\circ)$ $P - B \tan (ANF^\circ) \geq 0.6$ $W - B \tan (ANF^\circ) \geq 0.6$		
	NDC	No press-in lead		

Quotation

SCRAP RETENTION CARBIDE BLOCK DIES

—STRAIGHT TYPE / SINGLE FLANGE TYPE—

—Straight—  RoHS	M H V40 (HIP) 87~88HRA	Catalog No. A SR-WBLD D SR-WBLDD R SR-WBLDR E SR-WBLDE G SR-WBLDG	 Hole shape A  $P \rightarrow$ min. W max. P dimension must be within the range of W dimension.
—Single flange—  RoHS	M H V40 (HIP) 87~88HRA	Catalog No. A SR-WBLDF D SR-WBLDDF R SR-WBLDRF E SR-WBLDEF G SR-WBLDGF	 Hole shape A  $P \rightarrow$ min. W max. P dimension must be within the range of W dimension.

Catalog No.		H	V		6	8	10	13	16	20	25	R	L	MT	C
			min. W max.	min. P max.	1.00 3.00	1.00 4.00	1.00 6.00	1.00 8.00	1.00 10.00	1.50 12.00	1.50 16.00			(workpiece material thickness)	(clearance)
					0.01mm increments	0.005mm increments									
Straight	Single flange	6	1.00 ~ 3.00									W / R only 0.15 ≤ R < W / 2	16 20 22 25 30 35	Select a workpiece material thickness of 0.15mm or more.	C ≥ 0.010 MT ≥ 0.15 Select a clearance of 0.010mm or more.
A SR-WBLD	SR-WBLDF	8	1.00 ~ 4.00												
D SR-WBLDD	SR-WBLDDF	10	1.00 ~ 6.00												
R SR-WBLDR	SR-WBLDRF	13	1.00 ~ 8.00												
E SR-WBLDE	SR-WBLDEF	16	1.00 ~ 10.00												
G SR-WBLDG	SR-WBLDGF	20	1.50 ~ 12.00												
		25	1.50 ~ 16.00												

P-W-R → 0.01mm increments Can be used only for workpiece materials with tensile strengths up to 1177N/mm² (120kgf/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 die finishing dimensions.



Price

Quotation

Hole shape D $P \geq W$ $P - 0.4 \geq 1.5$ (P dimension straight section 1.5 mm or longer)	Hole shape R $P \geq W$ $P - 2R \geq 1.5$ (P dimension straight section 1.5 mm or longer)	Hole shape E $P > W$	Hole shape G $P > W$ $\sqrt{P^2 - W^2} \geq 1.5$ (P dimension straight section 1.5 mm or longer)
Hole shape D $P \geq W$ $P - 0.4 \geq 1.5$ (P dimension straight section 1.5 mm or longer)	Hole shape R $P \geq W$ $P - 2R \geq 1.5$ (P dimension straight section 1.5 mm or longer)	Hole shape E $P > W$	Hole shape G $P > W$ $\sqrt{P^2 - W^2} \geq 1.5$ (P dimension straight section 1.5 mm or longer)



Order

Catalog No.

V

H

L

0.01mm increments

P

W

R

(R only)

MT

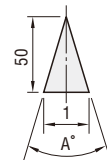
C

SR-WBLDRF 13 10 - 22 - P7.65 - W4.65 - R0.50 - MT1.50 - C0.105



Days to Ship

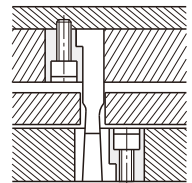
Quotation



• 1/50 indicates a taper in which the diameter increases by 1mm over 50mm of length.

Taper	1/50
Angle (A°)	1.146°

Flange holder P.365
HFW



Alterations

Catalog No.

V

H

L(LC)

P

W

R

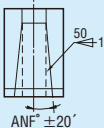
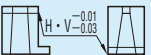
MT

C

(BC-LKC, etc.)

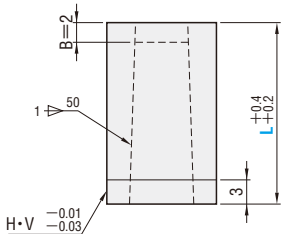
SR-WBLDF 08 06 - 20 - P2.25 - MT1.50 - C0.105 - LKC-ANF1.2

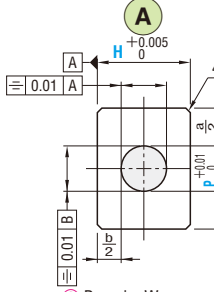
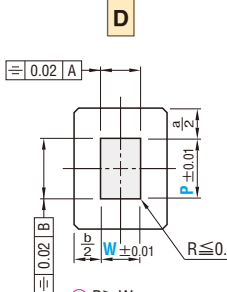
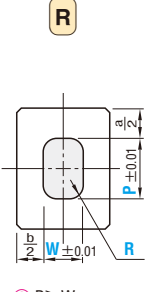
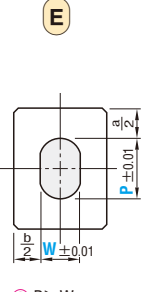
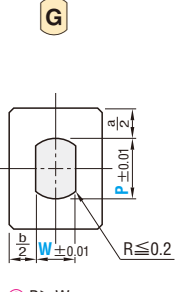
Alteration	Code	A	D R E G	1Code
Alterations to shaped hole	BC	Shaped hole depth change 1 ≤ BC < Bmax. 0.1mm increments P 1.00~1.99 3 2.00~ 4	Shaped hole depth change 1 ≤ BC < 2 0.1mm increments	Quotation
	PKC	Shaped hole tolerance change P + 0.01 → +0.005 0 0	Shaped hole tolerance change P · W ± 0.01 → +0.01 0 0	
	HVC		H and V are reversed relative to shaped hole. P dimension is machined in direction H and W dimension is machined in direction V. P → min. W max.	
Alterations to full length	LC	Full length change 10 ≤ LC < L 0.1mm increments (If combined with LKC-LKZ, 0.01mm increments can be selected.) For single flange types, if LC ≤ 12 then press-in lead is not included.		Quotation
	LKC	Full length tolerance change L + 0.4 → +0.05 + 0.2 → 0		
	LKZ	Full length tolerance change L + 0.4 → +0.01 + 0.2 → 0		

Alteration	Code	A	D R E G	1Code																
Alterations to flange	 HC	Flange width change $0 \leq HC < 1.5$ 0.1mm increments		Quotation																
	 TC	Flange thickness change $2 \leq TC < 5$ 0.1mm increments (If combined with TKC-TKM, 0.01mm increments can be selected.) Full length is shortened by (5-TC). If combined with LC, full length is equal to LC.																		
	 TKC	Flange thickness tolerance change $T + 0.3 \Rightarrow +0.02$ 0 0																		
	 TKM	Flange thickness tolerance change $T + 0.3 \Rightarrow 0$ 0 -0.02																		
	 VKC	Shape tolerance change $H \cdot V + 0.005 \Rightarrow +0.003$ 0 0																		
	 VKM	Shape tolerance change $H \cdot V + 0.005 \Rightarrow 0$ 0 -0.003																		
Others	 VHM	Shape tolerance change $H \cdot V + 0.005 \Rightarrow 0$ 0 -0.005		Quotation																
	 ANF	Angular angle change $0 \leq ANF \leq 1.2$ 0.2° increments d ≤ dmax. d = P + 2 · (L - B) tan (ANF°) P - B tan (ANF°) ≥ 0.6 W - B tan (ANF°) ≥ 0.6	<table><tr><th>V</th><th>d max.</th></tr><tr><td>6</td><td>3.4</td></tr><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></table> Taper 1/50 Angle (one side) 0.573°		V	d max.	6	3.4	8	4.4	10	6.4	13	8.4	16	10.6	20	12.6	25	14.6
	V	d max.																		
6	3.4																			
8	4.4																			
10	6.4																			
13	8.4																			
16	10.6																			
20	12.6																			
25	14.6																			
 NDC	 $H \cdot V - 0.01$ $+ 0.03$ ⇒ No press-in lead																			

CARBIDE BLOCK DIES

— CONFIGURABLE SIZE TYPE —

—Straight— 	RoHS M H V40 (HIP) 87~88HRA	Catalog No. A WFBLD D WFB added R WFB added E WFB added G WFB added	
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Hole shape A	Hole shape D	Hole shape R	Hole shape E	Hole shape G
 ⚡ P...min. W max. P dimension must be within the range of W dimension.	 ⚡ P ≥ W	 ⚡ P ≥ W ⚡ 0.15 ≤ R < W/2	 ⚡ P > W	 ⚡ P > W

Catalog No.	H	V	6.0 8.0	8.1 10.0	10.1 13.0	13.1 16.0	16.1 20.0	20.1 25.0	R	L
			min. P max.	min. P max.	min. P max.	min. P max.	min. P max.	min. P max.		
A WFBLD D WFB added R WFB added E WFB added G WFB added	6.0~ 8.0	1.00~ 4.00	4	4	5	6	8	9	0.15 ≤ R < W/2 (R only)	16
	8.1~ 10.0	1.00~ 6.00	4	4	5	6	8	9		20
	10.1~ 13.0	1.00~ 8.00	5	5	5	6	8	9		22
	13.1~ 16.0	1.00~ 10.00	6	5	5	6	8	9		25
	16.1~ 20.0	1.50~ 12.00	8	5	5	6	8	9		30
	20.1~ 25.0	1.50~ 16.00	9	5	5	6	8	9		35

⚡ V—P=a H—W=b (For shape A, H—P=b)
 ⚡ P·W·R→0.01mm increments V·H→0.1mm increments

Order

Catalog No. — 0.1mm increments — L — 0.01mm increments

WFBLE — V15.8 — H12.8 — L22 — P7.25 — W5.75

Days to Ship **Quotation**

Price **Quotation**

Alterations Refer to the page at right.

SCRAP RETENTION CARBIDE BLOCK DIES

—CONFIGURABLE SIZE TYPE—

PRODUCTS DATA

P.1103

—Straight—		RoHS	M H	Catalog No.	
			V40 (HIP) 87 ~ 88HRA	A SR—WFBLD D SR—WFBLLD R SR—WFBLLR E SR—WFBLE G SR—WFBLE	
Hole shape	Hole shape	Hole shape	Hole shape	Hole shape	
A $P \rightarrow \min.$ $W \rightarrow \max.$ P dimension must be within the range of W dimension.	D $P \geq W$ $P - 0.4 \geq 1.5$ $(P \text{ dimension straight section } 1.5 \text{ mm or longer})$	R $P \geq W$ $0.15 \leq R < \frac{W}{2}$ $P - 2R \geq 1.5$ $(P \text{ dimension straight section } 1.5 \text{ mm or longer})$	E $P > W$	G $P > W$ $\sqrt{P^2 - W^2} \geq 1.5$ $(P \text{ dimension straight section } 1.5 \text{ mm or longer})$	

Catalog No.	H	V		min. P max.	min. W max.	min. a min.	6.0	8.1	10.1	13.1	16.1	20.1	R	L	MT (workpiece material thickness)	C (clearance)
							8.0	10.0	13.0	16.0	20.0	25.0				
							1.00	1.00	1.00	1.00	1.50	1.50				
							4.00	6.00	8.00	10.00	12.00	16.00				
							4	4	5	6	8	9				
A SR—WFBLD	6.0 ~ 8.0	1.00 ~ 4.00	4										0.15 $\leq R < \frac{W}{2}$	16	MT ≥ 0.15 Select a workpiece material thickness of 0.15mm or more.	C ≥ 0.010 Select a clearance of 0.010mm or more.
D SR—WFBLLD	8.1 ~ 10.0	1.00 ~ 6.00	4											22		
R SR—WFBLLR	10.1 ~ 13.0	1.00 ~ 8.00	5											20		
E SR—WFBLE	13.1 ~ 16.0	1.00 ~ 10.00	6											25		
G SR—WFBLE	16.1 ~ 20.0	1.50 ~ 12.00	8											30		
G SR—WFBLE	20.1 ~ 25.0	1.50 ~ 16.00	9											35		

* V=P=a H=W=b (For shape A, H=P=b) * P=W-R→0.01mm increments V-H→0.1mm increments * Can be used only for workpiece materials with tensile strengths up to 1,177N/mm² (120kgf/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 die finishing dimensions.

Order	Catalog No.	0.1mm increments	L	0.01mm increments	MT	C	Quotation
		V	H	P	W	R (R only)	
	SR—WFBLE	V15.8	H12.8	L22	P7.27	W5.25	MT1.50 C0.105
Alterations	Catalog No.	V	H	L (LC)	P-W-R	(BC·LKC, etc.)	Quotation
	SR—WFBLLD	V12.5	H9.5	LC28.5	P6.25	W4.75	LKC—ANF1.2

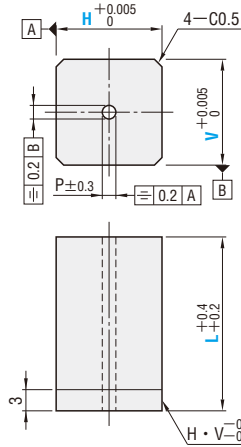
Alteration	Code	A	D REG	1Code	Alteration	Code	A	D REG	1Code
Alterations to shaped hole	BC	Shaped hole depth change 0 ≤ BC ≤ 4 0.1mm increments With scrap retention 1 ≤ BC ≤ Bmax. 0.1mm increments $\frac{P}{1.00 \sim 1.99} \frac{B_{max}}{3}$ $\frac{P}{2.00 \sim}$	Shaped hole depth change 0 ≤ BC ≤ 4 0.1mm increments With scrap retention 1 ≤ BC < 2 0.1mm increments		Others	VKC	Shape tolerance change H·V+0.005 → +0.003 0		
	PKC	Shaped hole tolerance change P±0.01 → +0.005 0	Shaped hole tolerance change P·W±0.01 → +0.01 0			VKM	Shape tolerance change H·V+0.005 → 0 -0.003		
	HVC		H and V are reversed relative to shaped hole. P dimension is machined in direction H and V dimension is machined in direction V. P → min. W max.			VHM	Shape tolerance change H·V+0.005 → 0 -0.005		
Alterations to full length	LC	Full length change 10 ≤ LC < L 0.1mm increments (If combined with LKC-LKZ, 0.01mm increments can be selected.)			ANF		Angular angle change 0 ≤ ANF ≤ 1.2 0.2° increments d ≤ dmax. d = P + 2 ((L-B) tan(ANF°)) P-B tan(ANF°) ≥ 0.6 W-B tan(ANF°) ≥ 0.6	$\frac{V}{6.0 \sim 3.4}$ $\frac{d}{10.0 \sim 6.4}$ $\frac{d}{13.0 \sim 8.4}$ $\frac{d}{16.0 \sim 10.6}$ $\frac{d}{20.0 \sim 12.6}$ $\frac{d}{25.0 \sim 14.6}$	
	LKC	Full length tolerance change L+0.4 → +0.05 0					Taper 1/50 Angle (one side) 0.573°		
	LKZ	Full length tolerance change L+0.4 → +0.01 0				NDC	No press-in lead		

CARBIDE BLOCK DIE BLANKS

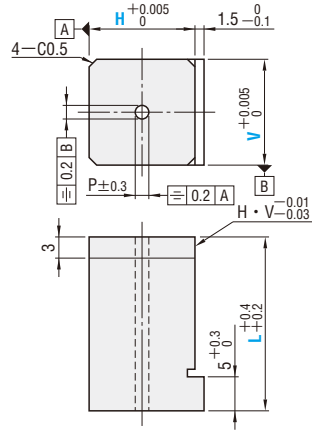
RoHS



Straight type
WBLDB



Single flange type
WBLDBF



M V40 (HIP)
H 87~88HRA

Catalog No.	H \ V	6	8	10	13	16	20	25	L	P
Straight type WBLDB Single flange type WBLDBF	6	○	○	○	○	○	○	○	16	0.8
	8		○	○	○	○	○	○	20	
	10			○	○	○	○	○	22	
	13				○	○	○	○	25	
	16					○	○	○	30	
	20						○	○	35	
	25							○		



Order

Catalog No. **WBLDB** V **08** H **06** — L **16**



Alterations



Catalog No. **WBLDBF** V **13** H **10** — (L) **20** — (HC·TC·TKC, etc.) **TC4**



Days to Ship

Quotation



Price

Quotation

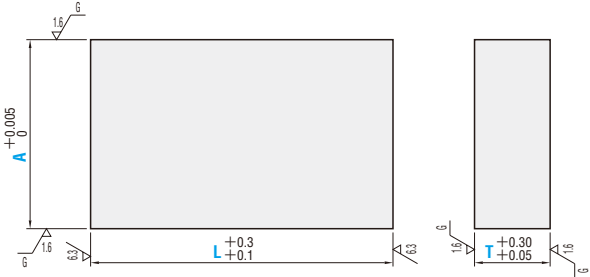
Alteration	Code	Spec.	1Code
Alterations to full length	LC	Full length change $10 \leq LC < L$ 0.1mm increments (If combined with LKC-LKZ, 0.01mm increments can be selected.) For single flange types, if $LC \leq 12$ then press-in lead is not included.	
	LKC	Full length tolerance change $L +0.4 +0.2 \Rightarrow +0.05 0$	
	LKZ	Full length tolerance change $L +0.4 +0.2 \Rightarrow +0.01 0$	
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.	Quotation
	TKC	Flange thickness tolerance change $T +0.3 0 \Rightarrow +0.02 0$	
	TKM	Flange thickness tolerance change $T +0.3 0 \Rightarrow -0.02 0$	
Others	VKC	Shape tolerance change $H \cdot V +0.005 0 \Rightarrow +0.003 0$	
	VKM	Shape tolerance change $H \cdot V +0.005 0 \Rightarrow -0.003 0$	
	VHM	Shape tolerance change $H \cdot V +0.005 0 \Rightarrow -0.005 0$	
	NDC	$H \cdot V -0.01 -0.03 \Rightarrow$ No press-in lead	

CARBIDE BLOCK DIE BLANKS



RoHS

ZD



M V30 (HIP)
H 88~89HRA

Catalog No.		A	L	Base unit price 1 ~ 4 pieces			
Type	T			L=40	L=50	L=60	L=70
ZD	10	10	40 50 60 70				
		13					
		16					
		20					
	13	13					
		16					
		20					
		20					
	16	16					
		20					
		20					
		20					

Order

Catalog No.

A

—

L

ZD 10

16

—

50

Price

Quotation

Alterations

Catalog No.

A

—

L(LC)

—

(TKC)

ZD 10

16

—

LC45

—

TKC

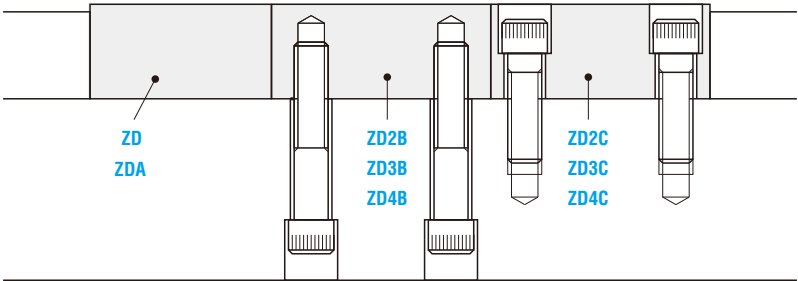
Days to Ship

Quotation

Alteration	Code	Spec.	1Code
Alterations to full length	LC	$30 \leq LC < L$ 1mm increments	Quotation

Alteration	Code	Spec.	1Code
Alteration to thickness	TKC	T tolerance change $T \begin{matrix} +0.30 \\ +0.05 \end{matrix} \rightarrow \begin{matrix} +0.01 \\ 0 \end{matrix}$	Quotation

- Example
- Carbide block die blanks**
 - ZD: Thickness T • width A • length L are standard dimensions. Material is same as the punch (V30). ※Dimension L can be changed within the specified range.
 - ZDA•ZD□B•ZD□C (P.567): Thickness T, width A, and length L can be specified in 0.01mm increments. Die material (V40) is used. ※The material can be changed to V20 • V30 by alteration.



CARBIDE BLOCK DIE BLANKS

—MACHINED TYPE—

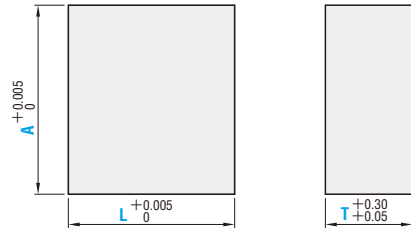
RoHS



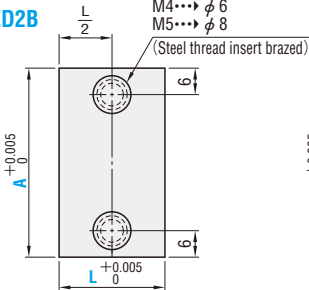
M V40 (HIP)
H 87 ~ 88HRA

A	10.00~31.99	32.00~70.00
M	4	5
d ₁	4.5	5.5
d ₂ × t	7.5 × 7	9 × 8

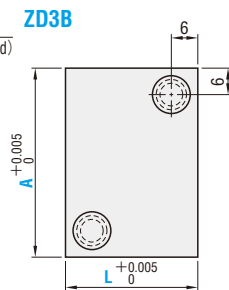
ZDA



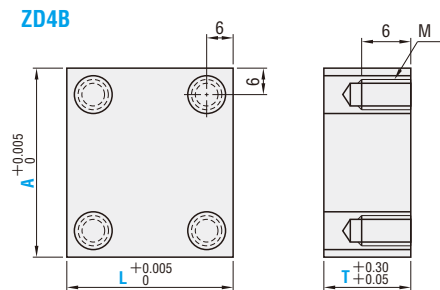
ZD2B



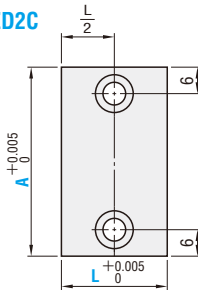
ZD3B



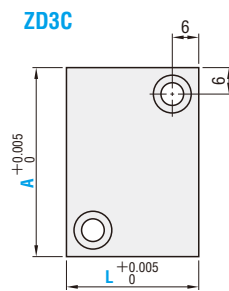
ZD4B



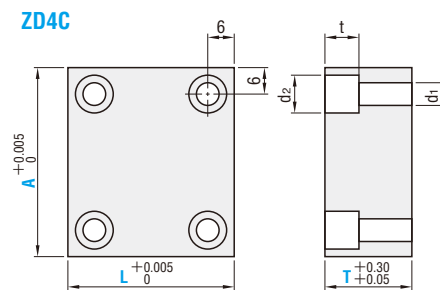
ZD2C



ZD3C



ZD4C



Catalog No.	T	A 0.01mm increments	L 0.01mm increments
ZDA	10	10.00~70.00	3.00~80.00
ZD2B ZD2C	13		
	16	30.00~70.00	13.00~70.00
ZD3B ZD3C	20	20.00~70.00	20.00~80.00
	22		
ZD4B ZD4C	25	30.00~70.00	25.00~80.00



Order

Catalog No.	T	0.01mm increments
ZDA	16	A — L 16.00 — 40.00



Days to Ship

Quotation



Price

Quotation

For larger orders, ask about prices/delivery.



Alterations



Catalog No.

T

A

L

X · Y · K

(TKC · JC)

ZDA

25

—

45.00

—

70.00

—

X15.0 Y34.0 K5.8

X30.0 Y20.0 K2.0

X45.0 Y 6.0 K5.8

— TKC

Alteration	Code	Spec.	1Code
	X Y K	Pilot holes for WEDM, dowel holes, and other holes can be machined. Specify the hole position (X and Y) and diameter (K). Increment for X · Y 0.1mm increments T=10·13·16→ φ1.0 ≤ K ≤ φ10 T=20·22·25→ φ1.5 ≤ K ≤ φ10 Increment for K 0.1mm increments Hole pitch tolerance ±0.3	Quotation

Alteration	Code	Spec.	1Code
	TKC	T dimension tolerance change T +0.30 → +0.01 +0.05 → 0	Quotation
	JC2	Material change M V40 → V20	Quotation
	JC3	Material change M V40 → V30	

■ Accuracy standards

