

PUNCH BLANKS



The volume discount rate is also applicable to alteration cost.
All price & lead time are to be quoted.

Punch blanks RoHS

D	R
1.0~2.5	R \leq 0.2
3~25	R \leq 0.5

Catalog No.	T	M	H	Applicable dim. D
SPB	D _{ms}	SKD 11 or equivalent	60~63HRC	D3 ~25
PHB		Powdered high-speed steel	64~67HRC	D1.6~25
A-SPB	D ^{+0.005} ₀	SKD 11 or equivalent	60~63HRC	D3 ~25
A-PHB		Powdered high-speed steel	64~67HRC	D1.6~25

H	T	Catalog No. Type	D							L											
2.6	3	(D _{ms}) SPB PHB	(1.6)	30	40	50															
3.0			(2.0)	30	40	50															
3.5			(2.5)	30	40	50															
5	5	(D ^{+0.005}) A-SPB A-PHB	3	40	50	60	70	80	90	100											
7			4	40	50	60	70	80	90	100											
8			5	40	50	60	70	80	90	100											
9			6	40	50	60	70	80	90	100											
11			8	40	50	60	70	80	90	100											
13			10	40	50	60	70	80	90	100											
16			13	40	50	60	70	80	90	100											
19			16	40	50	60	70	80	90	100											
23			20	40	50	60	70	80	90	100											
28			25	40	50	60	70	80	90	100											

The D dimension enclosed in brackets () is applicable only for PHB and A-PHB.

Stock availability
Red : SPB & PHB Green : PHB only
Blue : SPB only Grey : Not SGP stock

Punch blanks - With dowel - SPB-C RoHS

H	Catalog No. Type	10mm increments D	L	U/Price Q'ty : 1~9
13	SPB-C	10	40~150	Quotation
16		13		
19		16		
23		20		
28		25		
35		32		
41		38		
48		45		

Delivery SGP Stock 5 Days

Alteration Catalog No. - L(LC) - (HC·TC...etc.)
SPB 3 - LC65

Stock availability
Red : SPB - PHB Green : Other Product
Blue : SPB - PHB Grey : Not SGP stock

For area out of Singapore please refer to P.I.

Volume discount rate

Quantity	1~9	10~29	30~99	100~200
Rate	-	5%	10%	15%

Alteration Catalog No. - L(LC) - (HC·TC...etc.)
SPB 3 - LC65

Punch blanks other than jector

Alterations	Code	Spec.	Price
Full length	LC	• SPB · A-SPB → 15≤LC<L • SPB-C → 20≤LC<L • PHB · A-PHB → 30≤LC<L 0.1mm increments (Combination with LKC · LKZ→0.01mm increments)	Quotation
	LKC	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.05} ₀	
	LKZ	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.01} ₀ ⊗D>25:Not applicable, L(LC)<16:Not applicable	
Head	KC	Adds single key flat at head.	Quotation
	WKC	Adds double key flats in parallel.	
	HC	Changes head diameter. D≤HC<H 0.1mm increments	
	TC	2≤TC<T 0.1mm increments (Combination with TKC · TKM→0.01mm incr.) ⊗L is shortened by (5-TC). ⊗When LC, L=LC.	
	TKC	Changes head thickness T ^{+0.3} ₀ ⇨ ^{+0.02} ₀ tolerance.	
	TKM	Changes head thickness T ^{+0.3} ₀ ⇨ ⁰ _{-0.02} tolerance.	

Jector punch blanks

Alterations	Code	Spec.	Price
Full length	LC	• SJB · PJB · SJFB A-SJB · A-PJB → 30≤LC<L • SJXB · SJBC · SJBL A-SJXB · A-PJBL · A-SJBL → 40≤LC<L 0.1mm increments ⊗S is shortened accordingly. (Combination with LKC · LKZ→0.01mm increments)	Quotation
	LKC	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.05} ₀	
	LKZ	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.01} ₀ ⊗D>25:Not applicable	
Head	KC	Adds single key flat at head.	Quotation
	WKC	Adds double key flats in parallel.	
	HC	Changes head diameter. D≤HC<H 0.1mm increments	
	TC	3.5≤TC<5 0.1mm increments (Combination with TKC · TKM→0.01mm incr.) ⊗L is shortened by (5-TC). ⊗When LC, L=LC.	
	TKC	Changes head thickness T ^{+0.3} ₀ ⇨ ^{+0.02} ₀ tolerance.	
	TKM	Changes head thickness T ^{+0.3} ₀ ⇨ ⁰ _{-0.02} tolerance.	
Shank	AC	Removes jector pin and plug up the side vent with ring type resin (ABS) from inside to make the jector hole for through air hole.	Reduce Charge
	NC	Removes the jector pin. ⊗AC : Not applicable.	Reduce Charge

Stocks Availability Subjected to Prior Sales.

Punch blanks RoHS

D	R
1.0~2.5	R \leq 0.2
3~25	R \leq 0.5

Catalog No.	T	M	H	Applicable dim. D
SHB	D _{ms}	SKH51	61~64HRC	D1.0~25
A-SHB	D ^{+0.005} ₀	SKH51	61~64HRC	D1.0~25

H	T	Catalog No. Type	D							L												
2.0	3	(D _{ms}) SHB	1.0	30	40	50																
2.6			1.6	30	40	50																
3.0			2.0	30	40	50																
3.5			2.5	30	40	50																
5			3	40	50	60	70	80	90	100												
7	5	(D ^{+0.005}) A-SHB	4	40	50	60	70	80	90	100												
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Stock availability
Red : SHB Grey : Not SGP stock

Delivery SGP Stock 5 Days

Alteration Catalog No. - L(LC) - (HC·TC...etc.)
SHB 3 - LC65

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Volume discount rate

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Alteration Catalog No. - L(LC) - (HC·TC...etc.)
SHB 3 - LC65

Punch blanks other than jector

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	LKC	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.05} ₀	
	LKZ	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.01} ₀ ⊗D>25:Not applicable, L(LC)<16:Not applicable	
Head	KC	Adds single key flat at head.	Quotation
	WKC	Adds double key flats in parallel.	
	HC	Changes head diameter. D≤HC<H 0.1mm increments	
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	LKC	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.05} ₀	
	LKZ	Changes full length tolerance. L ^{+0.3} ₀ ⇨ ^{+0.01} ₀ ⊗D>25:Not applicable	
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