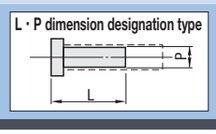
High Speed Steel
SKH51 equivalent
+
Hard chromate plating

STRAIGHT EJECTOR PINS

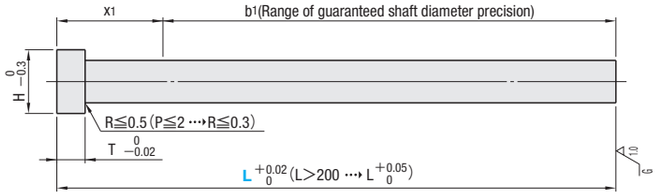
—L・P DIMENSION DESIGNATION TYPE—

L・P dimension designation type

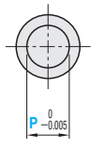


Non JIS material definition is listed on P.1351 - 1352

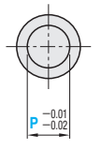
RoHS



C−EPYB
C−EPHB
C−EPHJB



C−EPHBE
C−EPHJBE



Part Number	Head thickness	T	P
C−EPYB (Small diameter)	4mm(T4)		0 −0.005
C−EPHB			
C−EPHJB	6・8mm(JIS)		
C−EPHBE	4mm(T4)		−0.01 −0.02
C−EPHJBE	6・8mm(JIS)		

Range of guaranteed shaft diameter precision (Details P.1301)

Head thickness	L	x1 max.
T4(Small diameter)	20.00～ 60.00	10
T4	40.00～200.00	30
JIS	40.00～200.00	35
T4・JIS	200.01～250.00	110
	250.01～300.00	160
	300.01～350.00	210

Tolerances of shaft diameter/lenth are values after plating.
Plating may extend to the head.

M SKH51 equivalent+Hard chromate plating
H Surface:900HV～(Reference value)
Base materials:58～60HRC
Range of guaranteed base material hardness (Details P.1303)
C-EPYB is applied with overall quenching
(Head without annealing)

H	T	Part Number Type	Part Number No.	L 0.01mm increments	P 0.005mm increments	U/Price 1～4 pcs.
2	4	C−EPYB	0.4	20.00～60.00	0.300～0.395	Quotation
			0.5		0.400～0.495	
			0.6		0.500～0.595	
			0.7		0.600～0.695	
			0.8		0.700～0.795	
			0.9		0.800～0.895	
			1		0.900～0.995	

4mm head H	4mm head T	JIS head H	JIS head T	Part Number Type 4mm head	Part Number Type JIS head	Part Number No.	0.01mm increments L	0.01mm increments P
3	4	—	—	C−EPHB (P 0 −0.005)	—	0.5	40.00～100.00	0.40～ 0.49
						0.6		0.50～ 0.59
						0.7		0.60～ 0.69
						0.8	40.00～150.00	0.70～ 0.79
						0.9		0.80～ 0.89
						1	40.00～200.00	0.90～ 0.99
						1.5		1.00～ 1.49
4						2	40.00～250.00	1.50～ 1.99
5						2.5	40.00～300.00	2.00～ 2.49
6						3		2.50～ 2.99
7						3.5		3.00～ 3.49
8		8	6	C−EPHBE (P −0.01 −0.02)	C−EPHJB (P 0 −0.005)	4		3.50～ 3.99
						4.5	40.00～300.00(350.00)	4.00～ 4.49
9		9				5	40.00～350.00	4.50～ 4.99
						5.5		5.00～ 5.49
		10				6		5.50～ 5.99
10		11			C−EPHJBE (P −0.01 −0.02)	6.5		6.00～ 6.49
						7		6.50～ 6.99
11		13	8			8		7.00～ 7.99
15		15				10		8.00～ 9.99
17		17				12		10.00～11.99

The L dimension enclosed in brackets ( ) is applicable only for C-EPHB and C-EPHBE.
For JIS head type less than No.4 is T=4, please place the order for 4mm head type of C−EPHB (P 0 −0.005) / C−EPHBE (P −0.01 −0.02)
When L dimension is 200.01 or more, make sure to check the range of guaranteed shaft diameter precision. (Details P.1301)
When the ejector pin's dimension L is less than 40, the guaranteed shaft diameter precision range may be too short for your particular application. For such application, use C−EPYB or core pins instead.

Order

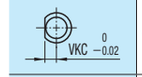
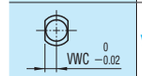
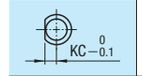
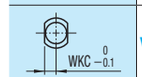
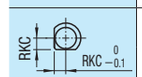
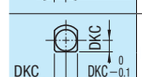
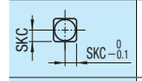
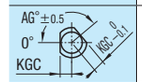
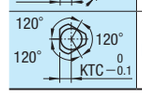
Part Number	L	P
C−EPHJB 5	350.00	P4.72

Days to Ship: Quotation

Alterations

Part Number — L — P — (KC・WKC⋯etc.)
C−EPHJB 5 — 350.00 — P4.72 — KC2.5
Quotation

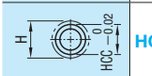
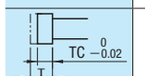
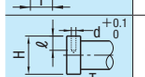
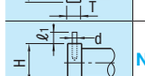
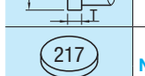
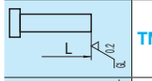
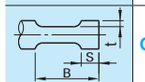
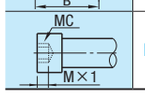
Alteration details P.53

Alterations	Code	Spec.	1Code
	VKC	Precision single flat cutting P/2≦VKC＜H/2	
	VWC	Precision two flats cutting P/2≦VWC＜H/2	
	KC	Single flat cutting P/2≦KC＜H/2	
	WKC	Two flats cutting P/2≦WKC＜H/2	
	KAC KBC	Varied width parallel flats cutting P/2≦KAC＜H/2 KBC=0.1mm increments only KAC＜KBC＜H/2	Quotation
	RKC	Two flats (right angled) cutting P/2≦RKC＜H/2	
	DKC	Three flats cutting P/2≦DKC＜H/2	
	SKC	Four flats cutting P/2≦SKC＜H/2	
	KGC	Two flats (angled) cutting P/2≦KGC＜H/2 AG=1° increments 0＜AG＜360	
	KTC	Three flats cutting at 120° P/2≦KTC＜H/2	

About Designation Unit for Key Flat Cutting

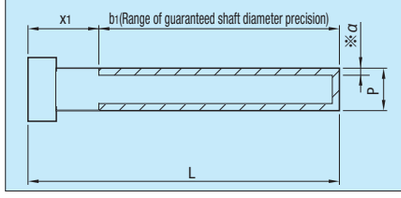
(1)To align the key flat with the shaft diameter
Unit of designation
0.005mm increments possible
C-EPYB only
0.0025mm increments possible

(2)To designate arbitrary key flat dimensions
Unit of designation 0.1mm

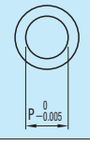
Alterations	Code	Spec.	1Code
	HC	HC=0.1mm increments P+1≦HC＜H, P≧1.5	
	HCC	HCC=0.1mm increments P+1≦HCC＜H−0.3, P≧1.5	
	TC	TC=0.1mm increments T/2≦TC＜T, P≧1.5 (Dimension L remains unchanged.) T−TC≦Lmax.−L	
	NC	Dowel hole boring Available when H≧4 Combination with other than NHC・NHN・TMC・GVC not available. (T: 4, 6, 8 / d: 2, 3 / ℓ: 3, 5)	
	NCW	Dowel hole boring+Spring pin driving Available when H≧4 Combination with other than NHC・NHN・TMC・GVC not available. (T: 4, 6, 8 / d: 2, 3 / ℓ1: 5)	Quotation
	NHC	Numbering on the head How to order P.54 Available when H≧2 Combination with SKC・MC not available.	
	NHN	Automatic sequential numbering on the head How to order P.54 Available when H≧2 Combination with SKC・MC not available.	
	TMC	Lapping on the tip face Not available for C−EPYB Available when P≧0.6 Hard chromate plating is applied after alternations.	
	GVC	S,B=1mm increments 2≦S≦10,S+5≦B≦30 Available when P≧3 Hard chromate plating is applied after alternations.	
	MC	Head tapping Available for C−EPHJB・C−EPHJBE when P≧8.00 Combination with other than TMC・GVC not available. (P 8.00～ 9.99: M4 / P10.00～11.99: M5)	

Price: Quotation

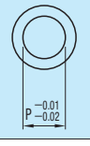
■Hard chromate plating on ejector pins



C−EPYB
C−EPHB
C−EPHJB



C−EPHBE
C−EPHJBE



Hard chromate plating for hardness 900 HV or higher is applied to base materials of SKH51 equivalent for improvement of wear resistance.
The thickness of a plating layer of one side (α) is between 0.001 and 0.002mm (reference value). By processing a shaft diameter of a base material to be thin in consideration of such thickness, shaft diameter precision is guaranteed after plating.
The range of guaranteed plating layer covers the b1 dimension section; however plating may extend to the head as it is applied after machining dimension L/P.
The tip surface is plated.
Since the plating layer is too thin for surface hardness testing after plating, the data shown in this catalog are "reference values."