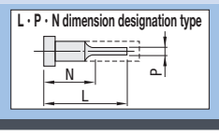
High Speed Steel
SKH51 equivalent
+
Hard chromate plating

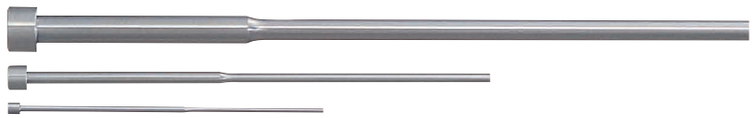
STEPPED EJECTOR PINS

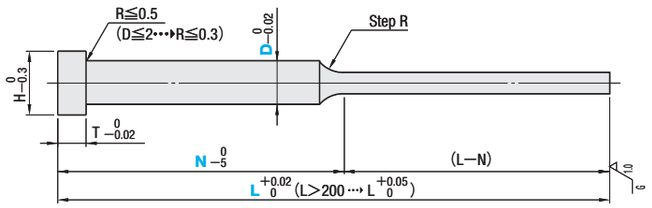
—L・P・N DIMENSION DESIGNATION TYPE—

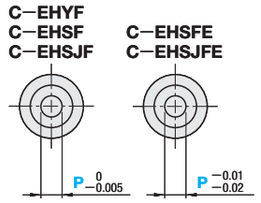


Non JIS material definition is listed on P.1351 - 1352

RoHS







Part Number	Head thickness	T P
C−EHYF(Small diameter)	4mm(T4)	0 −0.005
C−EHSF		
C−EHSJF	6・8mm(JIS)	
C−EHSFE	4mm(T4)	−0.01 −0.02
C−EHSJFE	6・8mm(JIS)	

Tolerances of tip diameter/length are figures after plating.
Plating may extend to the head.

Range of guaranteed shaft diameter precision (D) (Details P.1301)
Step R (Details P.1302)

M SKH51 equivalent+Hard chromate plating
H Surface:900HV～(Reference value)
Base material:58～60HRC

Range of guaranteed base material hardness (Details P.1303)
※C−EHYF is applied with overall quenching. (its head without annealing).

H	T	Part Number Type	D	L 0.01mm increments	P 0.005mm increments	N 1mm increments	U/Price 1～4
2	4	C−EHYF (Small diameter)	0.5	30.00 ～ 60.00	0.300～0.400	N≧15 and (L−N)≧15	Quotation
			0.6		0.300～0.500		
			0.7		0.300～0.600		
			0.8		0.300～0.700		
			0.9		0.300～0.800		
			1		0.300～0.900		
			1.1		0.300～1.000		
			1.2		0.300～1.100		

4mm head H	4mm head T	JIS head H	JIS head T	Part Number Type 4mm head	Part Number Type JIS head	D	0.01mm increments L	0.01mm increments P	1mm increments N
3	4	—	—	C−EHSF (P 0 −0.005)	—	1	40.00 ～ 100.00	0.30～ 0.90	N≧15 and 15≦(L−N)≦150
							100.01 ～ 150.00	0.60～ 0.90	
						1.1	40.00 ～ 200.00	0.60～ 1.00	
						1.2		0.60～ 1.10	
						1.3		0.60～ 1.20	
						1.4		0.60～ 1.30	
						1.5		0.60～ 1.40	
4						1.6	40.00 ～ 250.00	0.80～ 1.50	
						1.7		0.80～ 1.60	
						1.8		0.80～ 1.70	
						1.9		0.80～ 1.80	
						2		0.80～ 1.90	
5						2.5		0.80～ 2.40	
6						3	40.00 ～ 300.00 (50.00 ～ 300.00)	1.00～ 2.90	・N≧15 (T4) ・N≧30 (JIS) and 20≦(L−N)≦200
7				C−EHSFE (P −0.01 −0.02)		3.5		1.50～ 3.40	
8		8	6		C−EHSJF (P 0 −0.005)	4		1.50～ 3.90	
						4.5		2.50～ 4.40	
9		9				5	40.00 ～ 350.00 (50.00 ～ 350.00)	3.00～ 4.90	
		10				5.5		3.50～ 5.40	
10		11				6		4.00～ 5.90	
						6.5		4.50～ 6.40	
11		13	8		C−EHSJFE (P −0.01 −0.02)	7		4.90～ 6.90	
14		14				8		5.90～ 7.90	
15		15				9		6.90～ 8.90	
17		17				10		7.90～ 9.90	
						12		8.90～11.90	

The figures in parentheses ( ) for L dimensions are applicable for C−EHSJF and C−EHSJFE only.
For head thickness JIS less than D4 is T=4, please place the order for head thickness 4mm type of C−EHSF (P 0 −0.005), C−EHSFE (P −0.01 −0.02).

Order: Part Number — L — P — N
C−EHSJF 5 — 300.00 — P3.00 — N150

Days to Ship: Quotation

Alterations

Part Number — L — P — N — (KC・WKC・・・etc.)
C−EHSJFE 7 — 180.00 — P6.60 — N50 — SKC4.0

Alteration details P.127

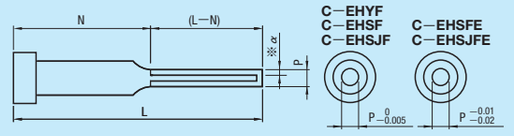
Alterations	Code	Spec.	1Code
VKC 0 −0.02	VKC	Single flat cutting (precision) D/2≦VKC＜H/2	Quotation
VWC 0 −0.02	VWC	Two parallel flats cutting (precision) D/2≦VWC＜H/2	
KC 0 −0.1	KC	Single flat cutting D/2≦KC＜H/2	
WKC 0 −0.1	WKC	Two flats cutting D/2≦WKC＜H/2	
KAC KBC 0 −0.1	KAC KBC	Varied width parallel flats cutting D/2≦KAC＜H/2 KBC=0.1mm increments only KAC＜KBC＜H/2	
RKC RKC 0 −0.1	RKC	Two flats (right angled) cutting D/2≦RKC＜H/2	
DKC DKC DKC 0 −0.1	DKC	Three flats cutting D/2≦DKC＜H/2	
SKC SKC 0 −0.1	SKC	Four flats cutting D/2≦SKC＜H/2	
AG° ±0.5 0° KGC	KGC	Two flats (angled) cutting D/2≦KGC＜H/2 AG=1° increments 0＜AG＜360	
120° 120° 120° KTC 0 −0.1	KTC	Three flats cutting at 120° D/2≦KTC＜H/2	

About Designation Unit for Key Flat Cutting
(1)To align the key flat with the shaft diameter
Unit of designation 0.05mm increments possible
(2)To designate arbitrary key flat dimensions
Unit of designation 0.1mm

Alterations	Code	Spec.	1Code
H HC 0 −0.3	HC	HC=0.1mm increments D+1≦HC＜H, D≧1.5	Quotation
H HCC 0 −0.02	HCC	HCC=0.1mm increments D+1≦HCC＜H−0.3, D≧1.5	
TC 0 −0.02 T	TC	TC=0.1mm increments T/2≦TC＜T, D≧1.5 (Dimensions L and N remain unchanged) T−TC≦Lmax.−L	
H d +0.1 0 T	NC	Dowel hole boring Available when head diameter H≧4 Combination with other than NHC・NHN・TMC・GVC not available. (T 4: d 2: ℓ 3; T 6 8: d 3: ℓ 5)	
H d T	NCW	Dowel hole boring+Spring pin driving Available when head diameter H≧4 Combination with other than NHC・NHN・TMC・GVC not available. (T 4: d 2: ℓ1 5; T 6 8: d 3: ℓ1 5)	
217	NHC	Numbering on the head How to order P.128 Combination with SKC not available.	
1 2 3	NHN	Automatic sequential numbering on the head How to order P.128 Combination with SKC not available.	
L 0.2	TMC	Lapping on the tip face Not available for C−EHYF Available when P≧0.6 Hard chromate plating is applied after alternations.	
S B	GVC	S, B=1mm increments 2≦S≦10, S+5≦B≦30 Available when P≧3 Hard chromate plating is applied after alternations.	
MC M×1	MC	Head tapping Available when D≧8, H≧13, T=8 Combination with other than TMC/GVC not available (D 8～9: M M4; 10: M5; 12: M6)	

Price: Quotation

■ Hard chromate plating on stepped ejector pins



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 0.002 mm (reference value).
By processing a tip diameter (P) of a base material to be thin in consideration of such thickness, the tip diameter (P) precision is guaranteed after plating.
The range of guaranteed plating layer covers the (L-N) dimension section; however, plating may extend to the head as it is applied after dimension L/P/N machining.
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."