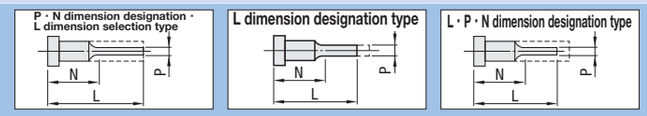
High Speed Steel
SKH51 equivalent
4mm head

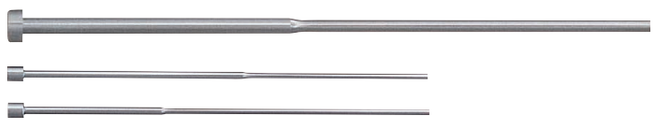
EXTRA PRECISION STEPPED EJECTOR PINS

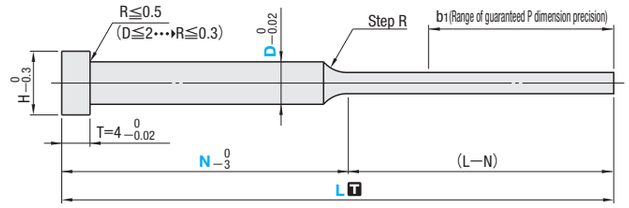
—P・N DIMENSION DESIGNATION・L DIMENSION SELECTION TYPE/L DIMENSION DESIGNATION TYPE/L・P・N DIMENSION DESIGNATION TYPE—



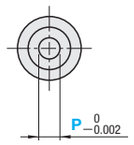
Non JIS material definition is listed on P.1359 - 1360

RoHS

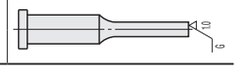




L	b1min.
L≦100.00	L−N− 5
L>100.00	L−N−10



Part Number	Type	Head thickness	T L	T P	Tip Face Roughness
EVSG	P・N DESIGNATION DESIGNATION・L DIMENSION SELECTION TYPE	4mm (T4)	+5 +0.1	0 −0.002	—
EVSL	L DIMENSION DESIGNATION TYPE		+0.01 0		
EVSF	L・P・N DIMENSION DESIGNATION TYPE				



The heads of extra precision ejector pins are not annealed in order to guarantee precision. Use a construction that supports sliding and does not readily apply a load to the flange of the ejector pin, such as by using a precision ejector guide pin&bushing.

Range of guaranteed shaft diameter precision (D) (Details P.1309)
Step R (Details P.1310)

M SKH51 equivalent
H 58～60HRC
Range of guaranteed base material hardness (Details P.1311)
※Overall quenching
(No annealing on head)

■P・N dimension designation・L dimension selection type

H	T	Part Number Type	D	L Selection	P 0.001mm increments	N 1mm increments
3	4	EVSG	1	60	0.300～0.900	When L60・100 N≧15 and (L−N)≧15
				100	0.500～0.900	
				150	0.600～0.900	
			1.5	60	0.300～1.400	
				100	0.500～1.400	
				150	0.600～1.400	
4			2	100 150	0.800～1.900	When L150 N≧15 and (L−N)≧50
5			2.5	100 150	0.800～2.400	
6			3	100 150	1.000～2.900	

■L DIMENSION DESIGNATION TYPE

H	T	Part Number Type	D	L 0.01mm increments	P	N
3	4	EVSL	1	50.00～ 60.00	0.3 0.4 0.5 0.6	30
				60.01～100.00	0.5 0.6	40
				100.01～150.00	0.6 0.8	50 60 70
			1.5	50.00～ 60.00	0.3 0.4 0.5 0.6	30
				60.01～100.00	0.5 0.6 0.8	40
				100.01～150.00	0.6 0.8 1.0	50 60 70
4			2	60.00～100.00	0.8 1.0 1.2 1.5	40
				100.01～150.00		50 60 70
5			2.5	60.00～100.00	1.0 1.5 2.0	40
				100.01～150.00		50 60 70
6			3	60.00～100.00	1.2 1.5 2.0	40
				100.01～150.00		50 60 70

■L・P・N DIMENSION DESIGNATION TYPE

H	T	Part Number Type	D	L 0.01mm increments	P 0.001mm increments	N 1mm increments
3	4	EVSF	1	50.00～100.00	0.300～0.900	When L≦100.00 N≧15 and (L−N)≧15
				100.01～150.00	0.600～0.900	
			1.5	60.00～100.00	0.300～1.400	
				100.01～150.00	0.600～1.400	
4			2	60.00～150.00	0.800～1.900	
5			2.5	60.00～150.00	0.800～2.400	When L>100.00 N≧15 and (L−N)≧50
6			3	60.00～150.00	1.000～2.900	

Order

Part Number	L	P	N
EVSG 3	100	P2.900	N50
EVSL 3	150.00	P2.0	N70

Days to Ship: 3 Days — Express A P.46

Delivery days depend on subsidiary. P.45

Alterations

Part Number — L — P — N — (KC・WKC⋯etc.)
EVSL 2 — 150.00 — P1.5 — N70 — KTC1.5

⊗ Express sevices not available for NHC・NHN・TMC

Alteration details P.129

Alterations	Code	Spec.	1Code
VKC 0 −0.02	VKC	Single flat cutting (precision) D/2≦VKC<H/2	
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	Quotation
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 0 −0.1	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	
H HCC 0 −0.02	HCC	HCC=0.1mm increments D+1≦HCC<H−0.3, D≧1.5	
TC 0 −0.02 4	TC	TC=0.1mm increments 2.0≦TC<4, D≧1.5 EVSL, EVSF ⋯› 4−TC≦Lmax.−L EVSL Dimension L remains unchanged Dimension N becomes shorter by (4−TC). EVSF Dimension L・N remains unchanged EVSG ⋯› Dimension L becomes shorter by (4−TC).	Quotation
	TRN	Relief under the head	
217	NHC	Numbering on the head How to order P.130 ⊗ Combination with SKC not available.	
1 2 3	NHN	Automatic sequential numbering on the head How to order P.130 ⊗ Combination with SKC not available.	
L 0.2 α	TMC	Lapping on the tip face Available when P≧0.6 Applicable to EVSL, EVSF only	
P	PKC	Tolerance of tip change P 0 −0.002 ⋯› 0 −0.001 −0.003	

Price

■Quantity discount rate P.45

Quantity	1～4	5～12	13～49	50～100
Rate	—	5%	10%	20%

To be quoted on price & lead time above Max. Q'ty.

Stepped Ejector Pins

High Speed Steel SKH51 equivalent