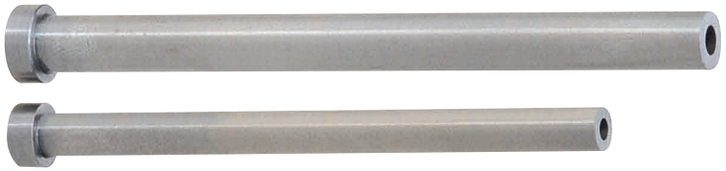
SKD61 equivalent+Nitrided
Concentricity◎0.06
4mm head

STRAIGHT EJECTOR SLEEVE

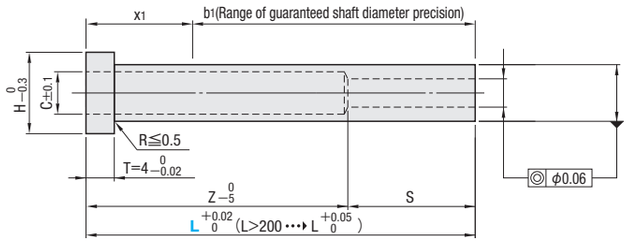
—L DIMENSION DESIGNATION TYPE—

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

RoHS



Part Number	T V	Applicable center pin shaft diameter tolerance
ESN—LC	H7	—0.01 —0.02 ※Note that for sleeves with V dimension tolerance of H7, combination with center pins that have shaft diameter tolerance $-^{0}_{0.005}$ is not recommended. The reason for this is the fitting sections S are longer. (Details P.1309)



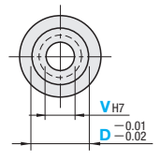
S dimension depends on the designated L dimension.
S=L—Z

L	50.00～75.00	75.01～100.00	100.01～125.00	125.01～150.00	150.01～175.00	175.01～200.00	200.01～250.00	250.01～300.00
Z	35	50(V1.5 ••• 60)	75(V1.5 ••• 85)	90(V1.5 ••• 110)	115	120	170	210

Note that the Stepped Center Pin's shaft diameter (D) is too large to fit in the recess (C). (Details P.1310)

T VH7

V≦3.0	3.5≦V≦6.0	6.5≦V≦10.0	V≧11.0
+0.010 0	+0.012 0	+0.015 0	+0.018 0



C=V+0.5

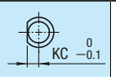
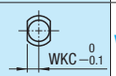
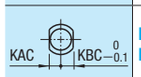
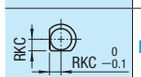
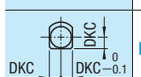
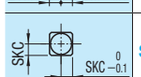
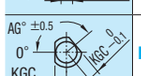
M SKD61 equivalent+Nitrided
H Surface : 900HV
Base material : 40±3HRC
b1 (Range of guaranteed shaft diameter precision) (Details P.1305)
x1 max.=30
Range of guaranteed base material hardness (Details P.1307)
Range of guaranteed surface hardness for nitriding (Details P.1308)

Order — Part Number — L — V
ESN—LC8 — 123.65 — V4.0

Days to Ship — Quotation

Alterations — Part Number — L — V — (KC・WKC…etc.)
ESN—LC8 — 196.25 — V4.0 — KC4.5

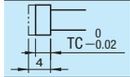
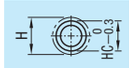
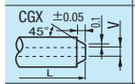
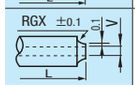
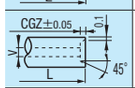
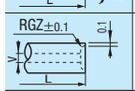
Alteration details P.275

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

About Designation Unit and Tolerance for Key Flat Cutting

(1)To align the key flat with the shaft diameter
Unit of designation 0.05mm increments possible
The tolerance is $^{0}_{-0.1}$ even when D/2 is designated to fit to the shaft diameter.

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

Alterations	Code	Spec.	1Code
	TC	TC=0.1mm increments 2.0≦TC＜4,4—TC≦Lmax.—L Dimension L remains unchanged. Dimension Z becomes shorter by (4—TC).	
	HC	HC=0.1mm increments D≦HC＜H In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	CGX	CGX=0.1mm increments 0.2≦CGX≦1.5 and CGX≦(D—V)/2—0.1 Combination with RGX/CGZ/RGZ not available.	Quotation
	RGX	RGX=0.1mm increments 0.3≦RGX≦1.5 and RGX≦(D—V)/2—0.1 Combination with CGX/CGZ/RGZ not available.	
	CGZ	CGZ=0.1mm increments 0.2≦CGZ≦1.0 and CGZ≦(D—V)/2—0.1 Combination with CGX/RGX/RGZ not available.	
	RGZ	RGZ=0.1mm increments 0.5≦RGZ≦1.0 and RGZ≦(D—V)/2—0.1 Combination with CGX/RGX/CGZ not available.	

H	Part Number Type	D	L 0.01mm increments	V Selection
7	ESN—LC	4	50.00～150.00	1.5
			50.00～200.00	2.0
				2.5
8		4.5	50.00～150.00	1.5
			50.00～200.00	2.0
				2.5
		5	50.00～200.00	2.0
				2.5
				3.0
9		5.5	50.00～200.00	2.0
				2.5
				3.0
				3.5
		6	50.00～250.00	2.5
				3.0
				3.5
				4.0
10		6.5	50.00～250.00	2.5
				3.0
				3.5
				4.0
		7	50.00～250.00	2.5
				3.0
				3.5
				4.0
				4.5
				5.0
11		7.5	50.00～250.00	3.0
				3.5
				4.0
				4.5
				5.0
		8	50.00～250.00	4.0
				4.5
				5.0
				5.5
				6.0
14		9	80.00～300.00	6.0
				6.5
				7.0
15		10	80.00～300.00	6.0
				7.0
				8.0
17		12	80.00～300.00	8.0
				9.0
18		13	80.00～300.00	8.0
				9.0
				10.0
21		16	80.00～300.00	10.0
				11.0
				12.0

For L dimension less than 50mm, please use Short Ejector Sleeves ECB and ECBB. (Only for D4・5・6・7・8・10) P.315

P Price — Quotation

Ejector Sleeves

Dies Steel SKD61 equivalent + Nitrided