


SKD61 equivalent + Nitrided
Concentricity $\text{◎}0.06$
4mm head

STRAIGHT EJECTOR SLEEVE

— STANDARD —

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

RoHS



Part Number	V	Applicable center pin shaft diameter tolerance
ESN	H7	$\begin{matrix} -0.01 \\ -0.02 \end{matrix}$

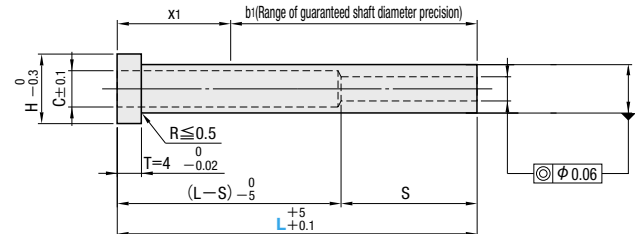
※Note that for sleeves with V dimension tolerance of H7, combination with center pins that have shaft diameter tolerance $\begin{matrix} 0 \\ 0.005 \end{matrix}$ is not recommended. The reason for this is the fitting sections S are longer. (Details [P.1309](#))

VH7

V ≤ 3.0	3.5 ≤ V ≤ 6.0	6.5 ≤ V ≤ 10.0	V ≥ 11.0
$\begin{matrix} +0.010 \\ 0 \end{matrix}$	$\begin{matrix} +0.012 \\ 0 \end{matrix}$	$\begin{matrix} +0.015 \\ 0 \end{matrix}$	$\begin{matrix} +0.018 \\ 0 \end{matrix}$

ⓘ SKD61 equivalent + Nitrided
Ⓜ 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](#))



C = V + 0.5

L	75	100	125	150	175	200	250	300
S	40	50(V1.5 → 40)	60(V1.5 → 40)	60	80	80	90	90

ⓘ L tolerance is set to $\begin{matrix} +5 \\ +0.1 \end{matrix}$.

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

Order Part Number — L — V
ESN8 — 100 — 4.0

Days to Ship Quotation

ⓘ Note that when you order ESN, entry of an alphabetical character (V) is not required.

Alterations Part Number — L — V — (KC · WKC · etc.)
ESN8 — 200 — 4.0 — KC4.5

Quotation

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

Alteration details [P.275](#)

Alterations	Code	Spec.	1Code
	TC	TC = 0.1mm increments ⓘ $2.0 \leq TC < 4$ ⓘ Dimensions L and (L-S) become shorter by (4-TC).	Quotation
	HC	HC = 0.1mm increments ⓘ $D \leq HC < H$ ⓘ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	

H	Part Number		L								V Selection	
	Type	D	75	100	125	150	175	200	250	300		
7	ESN	4									—	1.5 2.0 2.5
		4.5									—	1.5 2.0 2.5
8	ESN	5									—	2.0 2.5 3.0
		5.5									—	2.0 2.5 3.0
9	ESN	6									—	3.5 4.0 4.5
		6.5									—	2.5 3.0 3.5
10	ESN	7									—	2.5 3.0 3.5
		7.5									—	4.0 4.5 5.0
11	ESN	8									—	3.0 3.5 4.0
		8.5									—	4.5 5.0 5.5
14	ESN	9									—	6.0 6.5 7.0
		9.5									—	6.0 7.0 8.0
15	ESN	10									—	8.0 9.0 9.5
		10.5									—	8.0 9.0 10.0
17	ESN	12									—	8.0 9.0 10.0
		12.5									—	8.0 9.0 10.0
18	ESN	13									—	9.0 10.0 11.0
		13.5									—	10.0 11.0 12.0
21	ESN	16									—	10.0 11.0 12.0
		16.5									—	10.0 11.0 12.0

P Price Quotation