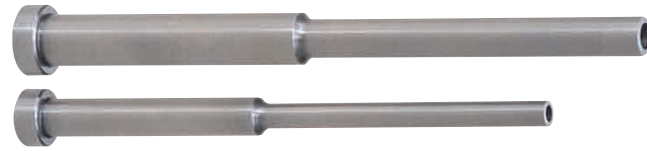


SKD61 equivalent+Nitrided
Concentricity◎0.06
4mm head

STEPPED EJECTOR SLEEVE

—L·V dimension designation type—

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

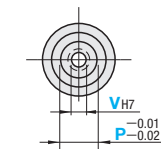
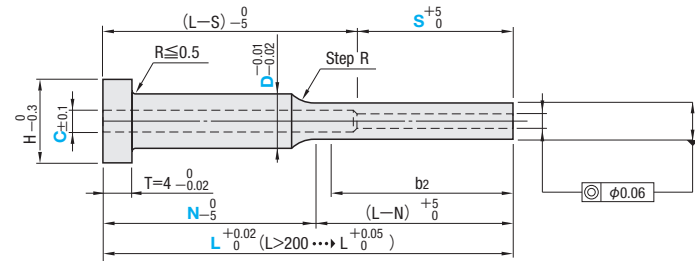


RoHS

Part Number	P	V	Applicable center pin shaft diameter tolerance
ESNF	-0.01 -0.02	H7	-0.01 -0.02

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

V H7			
$V \leq 3.0$	$3.1 \leq V \leq 6.0$	$6.1 \leq V \leq 10.0$	$V \geq 10.1$
+0.010 0	+0.012 0	+0.015 0	+0.018 0



C=designated dimension

- SKD61 equivalent+Nitrided
- Surface : 900HV
- Base material : 40±3HRC
- Range of guaranteed shaft diameter precision (D) (Details [P.1305](#))
- Range of guaranteed base material hardness (Details [P.1307](#))
- Range of guaranteed surface hardness for nitriding (Details [P.1308](#))
- Step R (Details [P.1306](#))
- Range of guaranteed tip-diameter precision (b2) (Details [P.1306](#))

- Nitriding may extend to the head as it is applied after dimension V and P machining.
- To insert a stepped center pin, the following condition must be met:
the sleeve's recess diameter (C) \geq the center pin's shaft diameter (D) + 1.0 (Details [P.1310](#))

Alterations Part Number — L — V — P — C — N — S — (KC · WKC...etc.)
ESNF6 — 150.00 — V2.5 — P5.50 — C3.1 — N80 — S85 — KC3.5

Alteration details [P.275](#)

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	KC	Single flat cutting $D/2 \leq KC < H/2$	<p>Quotation</p> <p>About Designation Unit and Tolerance for Key Flat Cutting</p> <p>(1) To align the key flat with the shaft diameter (Unit of designation) 0.05mm increments possible</p> <p>The tolerance is ± 0.1 even when D/2 is designated to fit to the shaft diameter.</p> <p>(2) To designate arbitrary key flat dimensions (Unit of designation) 0.1mm</p>		TC	TC=0.1mm increments ② $2.0 \leq TC < 4.0$, $4 - TC \leq L_{max} - L$ ③ Dimensions L, N and (L-S) remain unchanged.	<p>Quotation</p>
	WKC	Two flats cutting $D/2 \leq WKC < H/2$			HC	HC=0.1mm increments ① $D \leq HC < H$ ② In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	KAC KBC	Varied width parallel flats cutting $D/2 \leq KAC < H/2$ KBC=0.1mm increments only $KAC < KBC < H/2$			CW	Two-step recessing (Makes recess C into two-steps and widens it) CW=0.1mm increments W=5mm increments ① $C + 0.5 \leq CW \leq C_{max}$. ② $10 \leq W \leq L - S - 10$ ③ $W \leq N - 20$, $W \leq 200$	
	RKC	Two flats (right angled) cutting $D/2 \leq RKC < H/2$			CGX	CGX=0.1mm increments ① $0.2 \leq CGX \leq 1.5$ and $CGX \leq \frac{P-V}{2} - 0.1$ ② Available when $L - N \geq 50$ ③ Combination with RGX/CGZ/RGZ not available.	
	DKC	Three flats cutting $D/2 \leq DKC < H/2$			RGX	RGX=0.1mm increments ① $0.3 \leq RGX \leq 1.5$ and $RGX \leq \frac{P-V}{2} - 0.1$ ② Available when $L - N \geq 50$ ③ Combination with CGX/CGZ/RGZ not available.	
	SKC	Four flats cutting $D/2 \leq SKC < H/2$			CGZ	CGZ=0.1mm increments ① $0.2 \leq CGZ \leq 1.0$ and $CGZ \leq \frac{P-V}{2} - 0.1$ ② Available when $L - N \geq 50$ ③ Combination with CGX/RGX/RGZ not available.	
	KGC	Two flats (angled) cutting $D/2 \leq KGC < H/2$ $AG = 1^\circ$ increments $0 < AG < 360$			RGZ	RGZ=0.1mm increments ① $0.5 \leq RGZ \leq 1.0$ and $RGZ \leq \frac{P-V}{2} - 0.1$ ② Available when $L - N \geq 50$ ③ Combination with CGX/RGX/CGZ not available.	
	KTC	Three flats cutting at 120° $D/2 \leq KTC < H/2$					

H	Part Number		L 0.01mm increments	V 0.1mm increments	P 0.01mm increments	C 0.1mm increments	Cmax.	1mm increments	
	Type	D						N	S
7	ESNF	4	50.00~200.00	1.5~ 2.0	3.00~ 3.95	$C \geq V + 0.5$ and $C \leq P - 1.0$	2.5	$N \geq \frac{L}{3}$	20~100
8		4.5		2.0~ 2.5	3.50~ 4.45				
		9	5	2.0~ 3.0	3.50~ 4.95				
10			5.5	2.0~ 3.5	3.50~ 5.45				
		11	6	2.0~ 4.0	4.00~ 5.95				
12			6.5	2.0~ 4.5	4.00~ 6.45				
		13	7	2.0~ 5.0	4.00~ 6.95				
14			7.5	2.0~ 5.5	4.00~ 7.45				
		15	8	2.5~ 6.0	4.00~ 7.95	$C \geq V + 0.5$ and $C \leq P - 1.5$	7.5	$(L-N) \geq 10$	20~100
16			9	2.5~ 6.9	4.50~ 8.95				
		17	10	2.5~ 7.9	4.50~ 9.95				
18			11	2.5~ 10.9	5.00~ 12.95				
		19	12	2.5~ 13.0	7.00~ 15.95				
20			13			8.5	11.5	14.5	50.00~60.00
		21	14						
22			15			11.5	14.5	70.01~80.00	30
	23	16			11.5				
24		17				11.5	14.5		50
	25	18			11.5				
26		19				11.5	14.5		
	27	20			11.5				
28		21				11.5	14.5		
	29	22			11.5				
30		23				11.5	14.5		

Order Part Number — L — V — P — C — N — S
ESNF8 — 200.05 — V4.0 — P7.05 — C4.5 — N120 — S85

Days to Ship Quotation

Price Quotation

Ejector Sleeves

Dies Steel
SKD61 equivalent
+ Nitrided