

SKD61 equivalent+Nitrided
Concentricity $\text{◎}0.03$
4mm head

STRAIGHT EJECTOR SLEEVE

—SHAFT DIAMETER SELECTION TYPE · SHAFT DIAMETER DESIGNATION TYPE—

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

RoHS

Part Number		D · P	V	Applicable center pin shaft diameter tolerance
Shaft diameter selection type	Shaft diameter designation (0.01mm increments) type			
ESNV-L	ESNVB	-0.01 -0.02	H7	※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)

VH7

V ≤ 3.0	3.1 ≤ V ≤ 6.0	V ≥ 6.1
+0.010 0	+0.012 0	+0.015 0

SKD61 equivalent+Nitrided
Surface : 900HV
Base material : 40±3HRC

Ⓢ 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) ≥ the center pin's shaft diameter (D) +1.0 (Details [P.1310](#))

Ⓢ 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](#))

Alterations Part Number — L — P — V — C — S — (KC · WKC...etc.)

ESNV-L8 — 200.05 — V4.1 — C4.6 — S32 — KC4.5
 ESNVB8 — 150.00 — P7.55 — V4.0 — C5.0 — S32 — KC3.775

Alteration details [P.275](#)

Alterations	Code	Spec.	1Code
	KC	Single flat cutting (DorP)/2 ≤ KC < H/2	About Designation Unit and Tolerance for Key Flat Cutting
	WKC	Two flats cutting (DorP)/2 ≤ WKC < H/2	
	KAC	Varied width parallel flats cutting (DorP)/2 ≤ KAC < H/2 KBC=0.1mm increments only KAC < KBC < H/2	(1) To align the key flat with the shaft diameter [Unit of designation] Shaft diameter (D) selection 0.05mm increments possible Shaft diameter (P) designation 0.005mm increments possible
	RKC	Two flats (right angled) cutting (DorP)/2 ≤ RKC < H/2	
	DKC	Three flats cutting (DorP)/2 ≤ DKC < H/2	The tolerance is -0.1 even when (D or P)/2 is designated to fit to the shaft diameter. (2) To designate arbitrary key flat dimensions [Unit of designation] 0.1mm
	SKC	Four flats cutting (DorP)/2 ≤ SKC < H/2	
	KGC	Two flats (angled) cutting (DorP)/2 ≤ KGC < H/2 AG=1° increments 0 < AG < 360	
	KTC	Three flats cutting at 120° (DorP)/2 ≤ KTC < H/2	

Shaft diameter (D) selection type

H	Part Number		L 0.01mm increments	V 0.1mm increments	C 0.1mm increments	Cmax.	S 1mm increments
	Type	D					
7	ESNV-L	4	40.00~200.00	1.5~2.5	C ≥ V+0.5	3.0	20~50 (Ⓢ D4, D4.5) (When V1.5~V1.9) 20~40
8		4.5	40.00~250.00	1.5~2.5			
9		5	40.00~300.00	2.0~3.0			
		5.5		2.0~3.5			
10		6	40.00~300.00	2.0~4.0			
		6.5		2.0~4.5			
11		7	40.00~300.00	2.0~5.0			
		7.5		2.0~5.5			
14		8	40.00~300.00	2.5~6.0			
15		9	40.00~300.00	2.5~7.0			
	10	2.5~8.0					

Shaft diameter (P) designation 0.01mm increments type

H	Part Number		L 0.01mm increments	P 0.01mm increments	V 0.1mm increments	C 0.1mm increments	Cmax.	S 1mm increments
	Type	No.						
7	ESNVB	4	40.00~200.00	3.50~3.99	1.5~1.9	C ≥ V+0.5 and C ≤ P-1.5	2.5	20~50 (Ⓢ No.4) (When V1.5~V1.9) 20~40
8		5	40.00~250.00	4.01~4.99	2.0~2.5			
9		5.5	40.00~300.00	5.01~5.49	2.0~3.4			
		6		5.51~5.99	2.0~3.9			
10		6.5	40.00~300.00	6.01~6.49	2.0~4.4			
		7		6.51~6.99	2.0~4.9			
11		7.5	40.00~300.00	7.01~7.49	2.0~5.4			
		8		7.51~7.99	2.5~5.9			
15		8	40.00~300.00	8.01~9.99	2.5~7.9			
		10		8.01~9.99	2.5~7.9			

Ⓢ V ≤ P-2.0

Order Part Number — L — P — V — C — S
 (Shaft diameter(D)selection type)
 ESNV-L8 — 200.05 — V4.1 — C5.0 — S32

(Shaft diameter (P) designation type)
 ESNVB8 — 200.05 — P7.55 — V4.1 — C5.0 — S32

Days to Ship **Quotation**

Price **Quotation**

Ejector Sleeves

Dies Steel
SKD61 equivalent
+ Nitrided