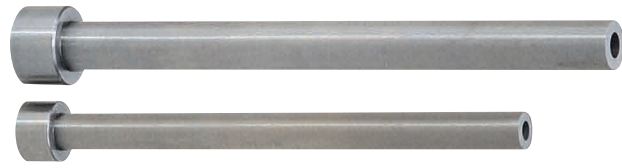


STRAIGHT EJECTOR SLEEVE

— STANDARD —

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



RoHS

Part Number	T V	Applicable center pin shaft diameter tolerance
ESJ	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](#))

D	D ≤ 12	D ≥ 15
	-0.01	-0.01
	-0.02	-0.03

VH7	V ≤ 3	3.5 ≤ V ≤ 6	6.5 ≤ V ≤ 10	V ≥ 12
	$+0.010$	$+0.012$	$+0.015$	$+0.018$
	0	0	0	0

$C = V + 0.5$

Ⓜ SKD61 equivalent + Nitrided
Ⓢ Surface : 900HV
 Base material : 40±3HRC
Ⓛ b1 (Range of guaranteed shaft diameter precision) (Details [P.1305](#))
 $x1$ max. = 35
 Range of guaranteed base material hardness (Details [P.1307](#))
 Range of guaranteed surface hardness for nitriding (Details [P.1308](#))

L	100	120	140	160	180	200	225	250	275	300	325	350	375	400	425	450	475	500
S	50(V1.5 → 40)		75	100	115	150												

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

Alterations Part Number — L — V — (KC · WKC...etc.)
 ESJ8 — 200 — 4 — KC4.0

Alteration details [P.275](#)

Alterations	Code	Spec.	1Code
	KC	Single flat cutting $D/2 \leq KC < H/2$	
	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 $KAC < KBC < H/2$	(1) To align the key flat with the shaft diameter
	RKC	Two flats (right angled) cutting $D/2 \leq RKC < H/2$	(Unit of designation) 0.05mm increments possible
	DKC	Three flats cutting $D/2 \leq DKC < H/2$	The tolerance is -0.1 even when D/2 is designated to fit to the shaft diameter.
	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	(2) To designate arbitrary key flat dimensions (Unit of designation) 0.1mm
	KTC	Three flats cutting at 120° $D/2 \leq KTC < H/2$	

Alterations	Code	Spec.	1Code
	TC	TC = 0.1mm increments $T/2 \leq TC < T$ Dimensions L and (L-S) become shorter by (T-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.	Quotation

H	T	Part Number	L	V Selection	
		Type	D		
8		ESJ	4	100 120 140	1.5
			4.5	100 120 140 160 180 200	2 2.5
			5	100 120 140 160 180 200 225	2 2.5 3
			5.5	100 120 140 160 180 200 225 250 275 300	2 2.5 3
9		ESJ	6	100 120 140 160 180 200 225 250 275 300	2 2.5 3 3.5 4
			6.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450	2 2.5 3 3.5 4
			7	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450	2 2.5 3 3.5 4 4.5
			7.5	100 120 140 160 180 200 225 250 275 300 325 350 375	3 3.5 4 4.5
10		ESJ	8	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	2 2.5 3 3.5 4 4.5 5 5.5
			8.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	2 2.5 3 3.5 4 4.5 5 5.5
			9	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	3 3.5 4 4.5 5
			9.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	3 3.5 4 4.5 5
11		ESJ	10	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	4 4.5 5 5.5 6 6.5 7
			10.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	4 4.5 5 5.5 6 6.5 7
			11	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	4 4.5 5 5.5 6 6.5 7 8 8.5
			11.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	4 4.5 5 5.5 6 6.5 7 8
12		ESJ	12	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	5 5.5 6 6.5 7 8
			12.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	5 5.5 6 6.5 7 8
			13	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	5 5.5 6 6.5 7 8
			13.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	5 5.5 6 6.5 7 8
13		ESJ	14	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	9 10
			14.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	9 10
			15	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	9 10
			15.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	9 10
14		ESJ	16	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	12 15
			16.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	12 15
			17	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	12 15
			17.5	100 120 140 160 180 200 225 250 275 300 325 350 375 400 425 450 475 500	12 15

Order Part Number — L — V —
 ESJ6.5 — 120 — 2.5

Days to Ship **Quotation**

Price **Quotation**

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