

Slot Pins for Inspection Jigs

Threaded Taper, Round / Taper with No Step

Feature: Suitable when clamping work pieces with threaded part and determining the work piece location with tapered area.

Slot Pins for Inspection Jigs – Threaded Taper, Round

D=8-25 D=10L-20L

Alteration ZC

Slot Pins for Inspection Jigs – Taper with No Step

D=8-25

RoHS 10

Material	Hardness	(1) Taper Shape Fixed			(2) Angle K			(3) X			(4) Tapered, No Step		
		Type	Material Code	Type	Material Code	Type	Material Code	Type	Material Code	Type	Material Code		
1045 Carbon Steel or Equivalent	—	S _{0.02} KJP Sg6 KJPG	MT	KJP	MK	KJP	MX	KJP	MTN	KJP	—	—	
1045 Carbon Steel or Equivalent	45 HRC min.		MTH				MKH		MXH				MTNH
304 Stainless Steel	—		MTS				MKS		MXS				—
① 440C or 420 Stainless Steel	45-50 HRC		MTC				MKC		MXC				—

(1) (2) (3) Taper Small Head: D=8-25

Large Head: D=10L-20L (Taper Shape Fixed) ④

(4) Tapered, No Step

① 440C or 420 Stainless Steel has an identification groove on D part.
 ② When D=8, the screws of handle change from M5 to M4.
 ③ For shorter handle length, please refer to the alteration ZC.
 ④ Dimensions not specified are same as Small Head Type.
 ⑤ There is a relief groove that is approx. 1 mm wide (approx. 0.2 mm deep), and the tip may have a centering hole.
 ⑥ P dimensioned section (tapered area) is not ground.

S	g6
4-6	-0.004 -0.012
7-10	-0.005 -0.014
11-18	-0.006 -0.017
19-29	-0.007 -0.020

(1) Taper Shape Fixed Type: Select Type, Material Code & D Dimension

Type	Material Code	D	P 0.01 mm Increment	S(P-1-S) 1 mm Increment	M(S=M) Selection		1 mm Increment		X	Y ₁ / Y ₂	K°
					L	B	L	B			
S _{0.02} KJP Sg6 KJPG	MT MTH MTS MTC	8	5.00-6.00	4-5	3 4	0 2-25 L≤Sx3	5-25 M≤B≤Mx3	5	1	Tapered 1/5	
		10	5.00-8.00	4-7	4 5 6						
		12	5.00-10.00	4-9	4 5 6 8						
		16	8.00-14.00	7-13	4 5 6 8 10S1012						
		20	10.00-18.00	9-17	5 6 8 10S1012						
		25	15.00-23.00	14-19	5 6 8 10S1012						
		10L	10.00-16.00	5-15	4 5 6 8 10S10						
		12L	12.00-20.00	6-19	5 6 8 10S1012						
		16L	16.00-25.00	8-24	6 8 10S1012						
		20L	20.00-30.00	10-29	6 8 10S1012						

① Large Head Type (D=10L-20L) is available for 1045 Carbon Steel or Equivalent only. ② S10 is fine thread (pitch 1.25).

(2) Angel Selectable Type (X Dimension is Fixed)

(3) X Dimension Selectable Type (Angel K is Fixed): Select Type, Material Code & D Dimension

Type	Part Number		D	P 0.01 mm Increment	S 1 mm Increment	M(S=M)	1 mm Increment		K°	X	Y ₁	Y ₂	Condition	
	Angle K	X					L	B						
KJP	MK MKH MKS MKC	MXH MXS MXC	10	5.21-7.59	4-5	4, 5, 6 8, 10, 12 (P=M)	0 2-25 L≤Sx3	5-25 M≤B≤Mx3	10 15	1/5	1 2 3	5	Angle 1.8 when K°=10 2.7 when K°=15 X Dimension When X=1, 1.8 When X=2, 1.6 When X=3, 1.4	Angle When K°=10, S<P-2.8 D>P+2.8 When K°=15, S<P-3.7 D>P+2.8 X Dimension When X=1, S<P-1.2 D>P+2.8 When X=2, S<P-1.4 D>P+2.6 When X=3, S<P-1.6 D>P+2.4
			12	5.21-9.59	4-7									
			16	8.00-13.59	4-11									
			20	10.00-17.59	6-15									
			25	15.00-22.59	8-19									

(4) Tapered with No Step Type: Select Type, Material Code & D Dimension

Type	Material Code	D	P 0.01 mm Increment	M(P-1=M) Selection		1 mm Increment	
				L	B	L	B
KJP	MTN MTNH	8	5.00-6.00	3 4	3-25 (L≤(P-1) x3)	5-25 M≤B≤Mx3	
		10	5.00-8.00	4 5 6			
		12	5.00-10.00	4 5 6 8			
		16	8.00-14.00	4 5 6 8 10 S10 12			
		20	10.00-18.00	5 6 8 10 S10 12			
		25	15.00-23.00	5 6 8 10 S10 12			

② S10 is fine thread (pitch 1.25).

D	Available Types											
	1 Taper Shape Fixed						2 Angle K		3 X Dimension		4 Tapered, No Step	
	S _{0.02}			Sg6			KJPMK	KJPMKH	KJPMX	KJPMXH	KJPMTN	KJPMTNH
Small Head	8	•	•	•	•	•	•	•	•	•	•	•
	10	•	•	•	•	•	•	•	•	•	•	•
	12	•	•	•	•	•	•	•	•	•	•	•
	16	•	•	•	•	•	•	•	•	•	•	•
	20	•	•	•	•	•	•	•	•	•	•	•
Large Head	10L	•	•	•	•	•	•	•	•	•	•	•
	12L	•	•	•	•	•	•	•	•	•	•	•
	16L	•	•	•	•	•	•	•	•	•	•	•
	20L	•	•	•	•	•	•	•	•	•	•	•

Slot Pins for Inspection Jigs

Threaded Taper, Revolving Diamond-Shaped

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RoHS 10

Material	Hardness	Type
1045 Carbon Steel or Equivalent	—	KJPKDT
1045 Carbon Steel or Equivalent	45 HRC min.	KJPKDTH

P	(W)
6.00-7.99	3.0
8.00-9.99	4.0
10.00-14.99	4.5
15.00-19.99	7.0
20.00-23.00	9.5

① For shorter handle length, specify the alteration ZC.
 ② P dimensioned section (tapered area) is not ground.

Type	Part Number	D	P 0.01 mm Increment	S(P-1-S) 1 mm Increment	M(S=M)	B 1 mm Increment	C 1 mm Increment
KJPKDT KJPKDTH		10	6.00-10.00	5-9	3 4 5 6 8 10 12	5-40	5-36 (C≤Mx3)
		12	6.00-12.00	5-11			
		16	6.00-14.00	5-13			
		20	7.00-18.00	6-17			
		25	7.00-23.00	6-22			

Part Number Example

Part Number - P - S - M - B - C

KJPKDT16 - P10.00 - S8 - M5 - B15 - C10

Part Number - P - S - M - L - B - K - X

KJPKDT12L - P14.20 - S10 - M5 - L15 - B10 - K10 - X2

1 Taper Shape Fixed
 2 Angle K Selectable
 3 X Selectable
 4 Tapered, No Step

Application Example

① Diamond part rotates.

Threaded, Taper (Left-hand Page)

Part Number Alterations

Part Number - P - S - M - L - B - K - X - (CH/ KH/ ZC...etc.)

KJPKM10 - P7.00 - S4 - M4 - L10 - B10 - K10 - CH
 KJPKM25 - P20.00 - M12 - L10 - B15 - NMN

Revolving, Diamond-shaped

Part Number - P - S - M - B - C - (CH/ KH/ ZC...etc.)

KJPKDT16 - P10.00 - S8 - M5 - B15 - C10 - KH
 KJPKDTH20 - P16.50 - S10 - M6 - B30 - C15 - ZC30

Alterations	Code	Spec.
Chain Attachment	CH	Retaining chain (length 600 mm) is attached to the gauge body. ① For chains only, refer to P.1845
Engraving of P Dimension	KH	Machines flats on knurled head and engraves P dimension. ⊗ Not applicable to handle length 10. ① Engraves on the reverse side when combined with KF.
Additional Surface Treatment (Electroless Nickel Plating)	MN	Electroless nickel plating is applied. ① Applicable to Material 1045 Carbon Steel or Equivalent only. ⊗ Combination with STC is not available.
Additional Surface Treatment (Black Oxide)	STC	Adds Black Oxide Surface Treatment. ① Applicable to Material 1045 Carbon Steel or Equivalent only. ⊗ Combination with MN is not available.

Alterations	Code	Spec.
S Dimension Tolerance	SKC	Changes S dimension tolerance to g6. ① Applicable to Angle K Selectable Type and X Dimension Selectable Type only.
Handle Length	ZC	Changes handle length 50 to 10, 20, 30 and 40. ① For Revolving Diamond-shaped type, handle length 30 and 40 only are applicable. When Z=30, effective length of tap is 7.5. ⊗ For handle length 10, there is no tapped hole. ① Handle length 10 and 20 is only available when P≥5 and pin length (10+L+B)≤30. ① For large head type, handle length 30 and 40 only are applicable. ⊗ For handle length 10, combination with KH is not available.
Engraving of the Specific Characters	KF	Engraves alphabet or number. Ordering Code: KF-MISUMI0034 Printable Character: alphabet, number, . (period) ⊗ Not applicable to handle length 10. ① Engraves on the reverse side when combined with KH. ① Up to 8 digits.

z (Handle)	Max. Characters	
	Small Head	Large Head
20	5	—
30	10	5
40	12	10
50	—	—