

# Slot Pins for Inspection Components

## Stepped Diamond, Straight - Diamond Fixed

# Slot Pins for Inspection Components

## Stepped Diamond, Straight - Diamond Configurable

Features: Diamond-shaped Inspection Pins to determine the workpiece location. For compatible bushings, see ① Round Tip (P1841-P1844) and ② D-Shape Tip (P1849).

**Diamond Shape Fixed**

Material*	Hardness	① Round Tip		② D-Shape Tip	
		Type	Sg6	Type	Sg6/F <sub>0.03</sub>
S45C Equivalent	-	KJPDKM	KJPGDKM	KJPDK	KJPGDK
S45C Equivalent	45HRC~	-	KJPGDKMH	KJPDHK	KJPGDKH
SUS304	-	-	KJPGDKMS	KJPDKS	KJPGDKS
SUS440C or 13Cr stainless	45~50HRC	-	-	-	KJPGDKC

S	g6
3.00	-0.002 -0.008
3.01~ 6.00	-0.004 -0.012
6.01~10.00	-0.005 -0.014
10.01~18.00	-0.008 -0.017
18.01~29.00	-0.007 -0.020

**① Round Tip**  
Small Head: D=8-25

Large Head: D=10L-20L\*

**② D-Shape Tip**  
Small Head: D=8-25

Large Head: D=10L-20L\*

① Large Head Type (D=10L~20L) is available for S45C only. ④ Dimensions not specified are the same as Small Head Type. ⑥  $K \geq (S + 0.3)$

① For electroless nickel plating, specify the alteration MN. ⑤ There is a relief groove that is approx. 1mm wide (approx. 0.2mm deep). Reference:  $\sin 30^\circ = 0.5$ ,  $\cos 30^\circ \approx 0.866$

② SUS440C or 13Cr stainless has an identification groove on D part. ③ For shorter handle length, specify the alteration ZC. For no relief groove, use NMN alteration.

**Diamond Shape Configurable**

Material*	Hardness	① Round Tip		② D-Shape Tip	
		Type	Sg6	Type	Sg6/F <sub>0.03</sub>
S45C Equivalent	-	KJPVM	KJPGVM	KJPV	KJPGV
S45C Equivalent	45HRC~	-	-	KJPVH	KJPGVH
SUS304	-	-	-	-	KJPGVS

S	g6
3.00	-0.002 -0.008
3.01~ 6.00	-0.004 -0.012
6.01~10.00	-0.005 -0.014
10.01~18.00	-0.008 -0.017
18.01~29.00	-0.007 -0.020

**① Round Tip**  
Small Head: D=8-25

Large Head: D=10L-20L\*

**② D-Shape Tip**  
Small Head: D=8-25

Large Head: D=10L-20L\*

① For electroless nickel plating, specify the alteration MN. ③ Dimensions not specified are the same as Small Head Type. ⑤ The joint of each step may have a relief groove (approx. 1mm wide and approx. 0.2mm deep). For no relief groove, use NMN alteration.

② For shorter handle length, specify the alteration ZC. ④ Large Head Type (D=10L~20L) is available for S45C only.

Part Number	① Round Tip		② D-Shape Tip		0.01mm Increment		0.1mm Increment	1mm Increment		(W)	M
	(S <sub>0.02</sub> )	(S <sub>g6</sub> )	(S <sub>0.02</sub> /F <sub>0.03</sub> )	(S <sub>g6</sub> /F <sub>0.03</sub> )	D	P	S(P>S)	F(F<S/2) ② D-Shape Tip only	L		
(S45C) KJPDKM	(S45C) KJPGDKM	(S45C) KJPDK	(S45C) KJPGDK	8	4.00~ 6.00	3.00~ 5.00	0.3~ 2.0	5~10	5~15	2	M4
			10	4.00~ 8.00	3.00~ 7.00	0.3~ 3.0	2			M5	
			12	6.00~10.00	3.00~ 9.00	0.3~ 4.0	3			M5	
			16	8.00~14.00	3.00~13.00	0.5~ 6.0	4			M5	
			20	12.00~18.00	5.00~17.00	1.0~ 8.0	6			M5	
	(SUS304) KJPGDKMS	(SUS304) KJPDKS	(SUS304) KJPGDKS	10L	10.00~16.00	5.00~15.00	1.0~ 7.0	Engraves P dimension L≤P×5	Engraves P dimension B≤S×5	4	M5
			12L	12.00~20.00	6.00~19.00	2.0~ 9.0	6			M5	
			16L	16.00~25.00	8.00~24.00	2.0~11.0	8			M5	
			20L	20.00~30.00	10.00~29.00	2.0~14.0	8			M5	

Please select S dimension so that S section is smaller than the diamond section.

Ordering Example: Part Number (TYPE, D) - P - S - F - L - B  
KJPDK12L - P16.00 - S6.00 - F2.2 - L10 - B10

Part Number	① Round Tip		② D-Shape Tip		0.01mm Increment		0.1mm Increment	1mm Increment	0.1mm Increment	0.5mm Increment	M			
	(S <sub>0.02</sub> )	(S <sub>g6</sub> )	(S <sub>0.02</sub> /F <sub>0.03</sub> )	(S <sub>g6</sub> /F <sub>0.03</sub> )	D	P	S(P-1≥S)	F(F<S/2) ② For D-Shape Tip only	L	B		V P-V V≥S+1	W(V>W)	
(S45C) KJPVM	(S45C) KJPGVM	(S45C) KJPV	(S45C) KJPGV	8	4.00~ 6.00	3.00~ 4.00	0.3~ 2.0	5~10	5~15	4.0~ 5.0	1.0~ 4.5	M4		
			10	4.00~ 8.00	3.00~ 6.00	0.3~ 3.0	2					M5		
			12	4.00~10.00	3.00~ 8.00	0.3~ 4.0	3					M5		
			16	8.00~14.00	3.00~12.00	0.5~ 6.0	4					M5		
			20	10.00~18.00	5.00~16.00	1.0~ 8.0	6					M5		
	(SUS304) KJPGVMS	(SUS304) KJPDKS	(SUS304) KJPGVMS	10L	10.00~16.00	5.00~14.00	1.0~ 7.0	For SUS304, L≤P×5	For SUS304, B≤S×5	6.0~15.0	1.0~14.5	1.0~18.5	M5	
			12L	12.00~20.00	6.00~18.00	2.0~ 9.0	7.0~19.0							1.0~23.5
			16L	16.00~25.00	8.00~23.00	2.0~11.0	9.0~24.0							1.0~28.5
			20L	20.00~30.00	10.00~28.00	2.0~14.0	11.0~29.0							1.0~28.5

Please select V, W and S dimensions so that S dimension is smaller than the Diamond section.

Ordering Example: Part Number (TYPE, D) - P - S - F - L - B - V - W  
KJPV16 - P8.00 - S4.00 - F1.0 - L10 - B10 - V7.0 - W5.0

D	① Round Tip Unit Price					② D-Shape Tip Unit Price							
	S <sub>0.02</sub>	KJPDKM	KJPGDKM	KJPGDKMH	KJPGDKMS	S <sub>0.02</sub> /F <sub>0.03</sub>	KJPDK	KJPDHK	KJPDKS	KJPGDK	KJPGDKH	KJPGDKS	KJPGDKC
Small Head	8												
	10												
	12												
	16												
	20												
Large Head	10L												
	12L												
	16L												
	20L												

Alterations: Part Number - P - S - F - L - B - (CH, KH, PKC~etc.)  
KJPDK12 - P8.00 - S6.00 - F2.2 - L10 - B10 - CH  
KJPDKM20 - P16.00 - S10 - L15 - B20 - ZC10

Alterations	Code	Spec.	Alterations	Code	Spec.
Chain Alterations 	CH	Loss-proof chain (length 600mm) is attached to gauge body. ① For chains only, see P1862.	P Dimension Tolerance 	PKC	Changes P dimension tolerance to g6.
Additional Surface Treatment (Electroless Nickel Plating)	MN	Electroless nickel plating is applied. ① Applicable to Material S45C only. ② Combination with STC is not available.	No Relief Groove 	NMN	Omits the relief groove between knurled part and straight part on the step. ① Not applicable to Large Head Type.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. ① Applicable to Material S45C only. ② Combination with MN is not available.	Handle Length 	ZC	Changes handle length 50 to 10, 20, 30 or 40. ① (Ordering Code) ZC20 ② Handle length 10 and 20 are available only when P≥5 and pin length (L+B) ≤ 30. ③ For Large Head Type, only ZC30 and 40 are applicable. ④ For handle length 10, there is no tapped hole. ⑤ For handle length 10, combination with KH is not available.
Engraving of P Dimension 	KH	Machines flats on knurled head and engraves P dimension. for SUS304 (with the character orientation arbitrary). ① Not applicable to handle length 10.			

D	① Round Tip Unit Price			② D-Shape Tip Unit Price					
	S <sub>0.02</sub>	KJPVM	KJPGVM	S <sub>0.02</sub> /F <sub>0.03</sub>	KJPV	KJPVH	KJPGV	KJPGVH	KJPGVS
Small Head	8								
	10								
	12								
	16								
	20								
Large Head	10L								
	12L								
	16L								
	20L								

Alterations: Part Number - P - S - F - L - B - V - W - (CH, KH, PKC~etc.)  
KJPV16 - P8.00 - S4.00 - F1.0 - L10 - B10 - V7.0 - W5.0 - CH  
KJPGVM20 - P16.00 - S10.00 - L7 - B7 - V12.2 - W1.0 - ZC30

Alterations	Code	Spec.	Alterations	Code	Spec.
Chain Alterations 	CH	Loss-proof chain (length 600mm) is attached to gauge body. ① For chains only, see P1862.	P Dimension Tolerance 	PKC	Changes P dimension tolerance to g6.
Additional Surface Treatment (Electroless Nickel Plating)	MN	Electroless nickel plating is applied. ① Applicable to Material S45C only. ② Combination with STC is not available.	No Relief Groove 	NMN	Omits the relief groove between knurled part and straight part on the step. ① Not applicable to Large Head Type.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. ① Applicable to Material S45C only. ② Combination with MN is not available.	Handle Length 	ZC	Changes handle length 50 to 10, 20, 30 or 40. ① (Ordering Code) ZC20 ② Handle length 10 and 20 are available only when P≥5 and pin length (L+B) ≤ 30. ③ For Large Head Type, only ZC30 and 40 are applicable. ④ For handle length 10, there is no tapped hole. ⑤ For handle length 10, combination with KH is not available.
Engraving of P Dimension 	KH	Machines flats on knurled head and engraves P dimension. for SUS304 (with the character orientation arbitrary). ① Not applicable to handle length 10.			