

# Slot Pins for Inspection Components

Diamond Tapered - Diamond Fixed

# Slot Pins for Inspection Components

Diamond Tapered - Diamond Configurable

Features: Diamond-shaped Tapered Inspection Pins to determine the diamond shaped workpiece location. For compatible bushings, see ① Round Tip (P1841~1845) and ② D-Shape Tip (P1849).

Diamond Shape Fixed  
D-Shape Tip, Large Head

Round Tip, Small Head

Round Tip, Small Head

Round Tip, Small Head

RoHS 10

Material	Hardness	① Round Tip				② D-Shape Tip				S	g6
		Type		Type		Type		Type			
		S <sub>0.02</sub>	Sg6	S <sub>0.02</sub> /F <sub>0.05</sub>	Sg6/F <sub>0.05</sub>	S <sub>0.02</sub>	Sg6	S <sub>0.02</sub> /F <sub>0.05</sub>	Sg6/F <sub>0.05</sub>		
EN 1.1191 Equiv.	-	KJPDTKM	KJPGDTKM	KJPDTK	KJPGDTK	3.00	6.00	-0.002	-0.002	3.00	6.00
EN 1.1191 Equiv.	45HRC~	KJPDTKMH	KJPGDTKMH	KJPDTHK	KJPGDTHK	6.01~10.00	-	-0.004	-0.004	6.01~10.00	-
EN 1.4301 Equiv.	-	KJPDTKMS	KJPGDTKMS	KJPDTKS	KJPGDTKS	10.01~18.00	-	-0.005	-0.014	10.01~18.00	-
EN 1.4037 Equiv.	45~50HRC	KJPDTKMC	KJPGDTKMC	KJPDTKC	KJPGDTKC	18.01~29.00	-	-0.008	-0.017	18.01~29.00	-

  

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

④ Dimensions not specified are the same as Small Head Type.  
 ⑤ There is a relief groove that is approx. 1 mm wide (approx. 0.2 mm deep).  
 ⑥ P dimensioned section (tapered area) is not ground.  
 ⑦ The tip may have a centering hole.

⑧  $K \geq (S + 0.3)$   
 $K = \sqrt{P^2 - W^2 \sin^2 30^\circ} + W \cos 30^\circ$   
 Reference:  $\sin 30^\circ = 0.5$   
 $\cos 30^\circ \approx 0.866$

Diamond Shape Configurable  
Round Tip, Small Head

D-Shape Tip, Small Head (Alteration ZC)

D-Shape Tip, Small Head (Alteration ZC)

D-Shape Tip, Small Head (Alteration ZC)

RoHS 10

Material	Hardness	① Round Tip				② D-Shape Tip				S	g6
		Type		Type		Type		Type			
		S <sub>0.02</sub>	Sg6	S <sub>0.02</sub> /F <sub>0.05</sub>	Sg6/F <sub>0.05</sub>	S <sub>0.02</sub>	Sg6	S <sub>0.02</sub> /F <sub>0.05</sub>	Sg6/F <sub>0.05</sub>		
EN 1.1191 Equiv.	-	KJPDTMV	KJPGDTMV	KJPDTV	KJPGDTV	3.00	6.00	-0.002	-0.002	3.00	6.00
EN 1.1191 Equiv.	45HRC~	KJPDTMVH	KJPGDTMVH	KJPDTVH	KJPGDTVH	6.01~10.00	-	-0.004	-0.004	6.01~10.00	-
EN 1.4301 Equiv.	-	KJPDTMVS	KJPGDTMVS	KJPDTVS	KJPGDTVS	10.01~18.00	-	-0.005	-0.014	10.01~18.00	-
EN 1.4037 Equiv.	45~50HRC	KJPDTMVC	KJPGDTMVC	KJPDTVVC	KJPGDTVC	18.01~29.00	-	-0.008	-0.017	18.01~29.00	-

  

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

④ Dimensions not specified are the same as Small Head Type.  
 ⑤ There is a relief groove that is approx. 1 mm wide (approx. 0.2 mm deep).  
 ⑥ P dimensioned section (tapered area) is not ground.  
 ⑦  $K \geq (S + 0.3)$   
 $K = \frac{1}{2} \sqrt{W - V \sqrt{P^2 - W^2}}$

\* Diamond Configurable Type has 1mm flats on faces of the diamond shape.

Part Number	① Round Tip		② D-Shape Tip		D	0.01mm Increment		0.1mm Increment	1mm Increment	(W)	M
	S <sub>0.02</sub>	Sg6	S <sub>0.02</sub> /F <sub>0.05</sub>	Sg6/F <sub>0.05</sub>		P	S(P-1±S)	F(F<S/2) ② D-Shape Tip only	B		
(EN 1.1191 Equiv.) KJPDTKM	(EN 1.1191 Equiv.) KJPGDTKM	(EN 1.1191 Equiv.) KJPDTK	(EN 1.1191 Equiv.) KJPGDTK	8	4.00~6.00	3.00~5.00	0.3~2.0	5~25	2	M4	
				10	4.00~8.00	3.00~7.00	0.3~3.0				
				12	6.00~10.00	3.00~9.00	0.3~4.0				
				16	8.00~14.00	3.00~13.00	0.5~6.0				
				20	12.00~18.00	5.00~17.00	1.0~8.0				
(EN 1.1191 Equiv. Hardened) KJPDTKMH	(EN 1.1191 Equiv. Hardened) KJPGDTKMH	(EN 1.1191 Equiv. Hardened) KJPDTHK	(EN 1.1191 Equiv. Hardened) KJPGDTHK	25	16.00~23.00	8.00~22.00	2.0~10.0	For EN 1.4301 Equiv., B≤Sx5	8	M5	
				10L	10.00~16.00	5.00~15.00	1.0~7.0				
				12L	12.00~20.00	6.00~19.00	2.0~9.0				
				16L	16.00~25.00	8.00~24.00	2.0~11.0				
				20L	20.00~30.00	10.00~29.00	2.0~14.0				

Large Head Type (D=10L~20L) is available for EN 1.1191 Equiv. only. Please select S dimension so that S section is smaller than the diamond section.

Ordering Example: **KJPDTK12L** - P16.00 - S8.00 - F2.2 - B10

Part Number	① Round Tip		② D-Shape Tip		D	0.01mm Increment		0.1mm Increment	1mm Increment	0.1mm Increment	0.5mm Increment	M
	S <sub>0.02</sub>	Sg6	S <sub>0.02</sub> /F <sub>0.05</sub>	Sg6/F <sub>0.05</sub>		P	S(P-1±S)	F(F<S/2) ② D-Shape Tip only	B	VP-V VzS+1	W(V-W)	
(EN 1.1191 Equiv.) KJPDTMV	(EN 1.1191 Equiv.) KJPGDTMV	(EN 1.1191 Equiv.) KJPDTV	(EN 1.1191 Equiv.) KJPGDTV	8	4.00~6.00	3.00~4.00	0.3~2.0	5~25	5~15	4.0~5.0	1.0~4.5	M4
				10	4.00~8.00	3.00~6.00	0.3~3.0					
				12	6.00~10.00	3.00~8.00	0.3~4.0					
				16	8.00~14.00	4.00~12.00	0.5~6.0					
				20	10.00~18.00	5.00~16.00	1.0~8.0					
(EN 1.1191 Equiv. Hardened) KJPDTMVH	(EN 1.1191 Equiv. Hardened) KJPGDTMVH	(EN 1.1191 Equiv. Hardened) KJPDTVH	(EN 1.1191 Equiv. Hardened) KJPGDTVH	25	15.00~23.00	8.00~21.00	2.0~10.0	For EN 1.4301 Equiv., B≤Sx5	8	9.0~22.0	1.0~21.5	M5
				10L	10.00~16.00	5.00~14.00	1.0~7.0					
				12L	12.00~20.00	6.00~18.00	2.0~9.0					
				16L	16.00~25.00	8.00~23.00	2.0~11.0					
				20L	20.00~30.00	10.00~28.00	2.0~14.0					

Large Head Type (D=10L~20L) is available for EN 1.1191 Equiv. only. Please select V, W and S dimensions so that S dimension is smaller than the Diamond section.

Ordering Example: **KJPDTMV16** - P10.20 - S6.80 - B20 - V8.0 - W6.0

D	① Round Tip Unit Price								② D-Shape Tip Unit Price							
	S <sub>0.02</sub>				Sg6				S <sub>0.02</sub> /F <sub>0.05</sub>				Sg6/F <sub>0.05</sub>			
	KJPDTKM	KJPDTKMH	KJPDTKMS	KJPDTKMC	KJPGDTKM	KJPGDTKMH	KJPGDTKMS	KJPGDTKMC	KJPDTK	KJPDTHK	KJPDTKS	KJPDTKC	KJPGDTK	KJPGDTHK	KJPGDTKS	KJPGDTKC
Small Head	8															
	10															
	12															
	16															
	20															
	25															
Large Head	10L															
	12L															
	16L															
	20L															

Alterations: **KJPDTK12** - P8.00 - S6.00 - F2.2 - B10 - CH  
**KJPDTKMH16** - P8.00 - S5.00 - B15 - ZC20-KH

Alterations	Code	Spec.
Additional Surface Treatment (Electroless Nickel Plating)	MN	Electroless nickel plating is applied. * Applicable to Material EN 1.1191 Equiv. only. * Combination with STC is not available.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. * Applicable to Material EN 1.1191 Equiv. only. * Combination with MN is not available.
Engraving of the Specified Characters	KF	Engraves alphabet or number. (Ordering Code) KF-MISUMI0034 Printable Character: alphabet, number, (period) * Not applicable to handle length 10. * No symbols, such as a hyphen (-), other than those mentioned above may be used for engraving. * The pin's orientation to the pin to the engraved characters is arbitrary. * Engraved on the reverse side when combined with KH. * Up to 8 digits max. * When combining with other options, enter this last.
Engraving of P Dimension	KH	Machines flats on knurled head and engraves P dimension (with the character orientation arbitrary). * Not applicable to handle length 10. * Engraved on the reverse side when combined with KF.

D	① Round Tip Unit Price								② D-Shape Tip Unit Price							
	S <sub>0.02</sub>				Sg6				S <sub>0.02</sub> /F <sub>0.05</sub>				Sg6/F <sub>0.05</sub>			
	KJPDTMV	KJPDTMVH	KJPDTMVS	KJPDTMVC	KJPGDTMV	KJPGDTMVH	KJPGDTMVS	KJPGDTMVC	KJPDTV	KJPDTVH	KJPDTVS	KJPDTVVC	KJPGDTV	KJPGDTVH	KJPGDTVS	KJPGDTVC
Small Head	8															
	10															
	12															
	16															
	20															
	25															
Large Head	10L															
	12L															
	16L															
	20L															

Alterations: **KJPDTMV16** - P10.20 - S6.80 - B20 - V8.0 - W6.0 - CH  
**KJPDTV12** - P9.50 - S5.00 - F2.0 - B18 - V8.0 - W4.0 - ZC10

Alterations	Code	Spec.
Additional Surface Treatment (Electroless Nickel Plating)	MN	Electroless nickel plating is applied. * Applicable to Material EN 1.1191 Equiv. only. * Combination with STC is not available.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. * Applicable to Material EN 1.1191 Equiv. only. * Combination with MN is not available.
Engraving of the Specified Characters	KF	Engraves alphabet or number. (Ordering Code) KF-MISUMI0034 Printable Character: alphabet, number, (period) * Not applicable to handle length 10. * No symbols, such as a hyphen (-), other than those mentioned above may be used for engraving. * The pin's orientation to the pin to the engraved characters is arbitrary. * Engraved on the reverse side when combined with KH. * Up to 8 digits max. * When combining with other options, enter this last.
Engraving of P Dimension	KH	Machines flats on knurled head and engraves P dimension (with the character orientation arbitrary). * Not applicable to handle length 10. * Engraved on the reverse side when combined with KF.