

Slot Pins for Inspection Jigs

Diamond, Taper Fixed

Feature: Diamond-shaped Inspection Pins to determine the workpiece location.
Applicable Bushings: (1) For Standard Type, see P.1828-1830, (2) For Stepped Type, see P.1831

| Slot Pins for Inspection Jigs - Diamond, Taper Fixed | Material ① | Hardness | (1) Round Tip | | (2) D-Shape Tip | |
|--|------------|----------|--|---|---------------------------------|---|
| | | | Type | Material Code | Type | Material Code |
| | | | 1045 Carbon Steel or Equivalent 1045 Carbon Steel or Equivalent 304 Stainless Steel ② 440C or 420 Stainless Steel | S ^{0.02} KJP Sg6 KJPG | DTKM DTKMH DTKMS DTKMC | S ^{0.02} / F ^{0.05} KJP Sg6 / F ^{0.05} KJPG |

① Some combinations are unavailable. Refer to the available list to select the available combination.

(1) Round Tip Small Head: D=8-25

 (2) D-Shaped Tip Type Small Head: D=8-25

Large Head: D=10L-20L ④

 Large Head: D=10L-20L ④

① 1. For electroless nickel plating, please refer to the alteration MN.
 ② 2. 440C or 420 Stainless Steel has an identification groove on D part.
 ③ 3. For shorter handle length, please refer to the alteration ZC.
 ④ 4. Dimensions not specified on the drawing are same as Small Head Type.
 ⑤ 5. There is a relief groove that is approx. 1 mm wide (approx. 0.2 mm deep).
 ⑥ 6. P dimensioned section (tapered area) is not ground.
 ⑦ 7. The tip may have a centering hole.
 ⑧ 8. $K \geq (S+0.3)$

$$K = \sqrt{P^2 - W^2} \sin 30^\circ + W \cos 30^\circ$$
 Reference: $\sin 30^\circ = 0.5$, $\cos 30^\circ = 0.866$

| 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 | -0.006 -0.017 |
| 18.01-29.00 | -0.007 -0.020 |

Select Type, Material Code & D Dimension

| (1) Round Tip | (2) D-Shape Tip | D | 0.01 mm Increment | | 0.1 mm Increment | | 1 mm Increment | (W) | M |
|---|---------------------------------|---------------------------------|-------------------|------------|-----------------------------------|--|--------------------------------------|-----|---|
| | | | P | S (P-1≥S) | F (F<S/2) (2) D-Shape Tip only | B | | | |
| S ^{0.02} KJP Sg6 KJPG | DTKM DTKMH DTKMS DTKMC | 8 10 12 16 20 25 | 4.00-6.00 | 3.00-5.00 | 0.3-2.0 | 5-25 For 304 Stainless Steel, B≤Sx5 | 2 3 4 6 8 4 6 8 | M4 | |
| | | | 6.00-10.00 | 3.00-9.00 | 0.3-4.0 | | | | |
| | | | 8.00-14.00 | 3.00-13.00 | 0.5-6.0 | | | | |
| | | | 12.00-18.00 | 5.00-17.00 | 1.0-8.0 | | | | |
| | | | 16.00-23.00 | 8.00-22.00 | 2.0-10.0 | | | | |
| | | | 10L-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 | | | | | | | |

④ Large Head Type (D=10L-20L) is available for 1045 Carbon Steel or Equivalent only. ④ Please select S dimension so that S section is smaller than the diamond section.

Part Number Example

Part Number: Type - Config. Material Code - D - P - S - F - B

Example: KJP - DTK - 12L - P16.00 - S8.00 - F2.2 - B10

| D | 1 Round Tip Type - Available Types | | | | | 2D-Shape Tip Type - Available Types | | | | |
|------------|------------------------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | S ^{0.02} | S ^{0.02} | S ^{0.02} | S ^{0.02} | S ^{0.02} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} |
| Small Head | 8 | • | • | • | • | • | • | • | • | • |
| | 10 | • | • | • | • | • | • | • | • | • |
| | 12 | • | • | • | • | • | • | • | • | • |
| | 16 | • | • | • | • | • | • | • | • | • |
| | 20 | • | • | • | • | • | • | • | • | • |
| Large Head | 10L | • | • | • | • | • | • | • | • | • |
| | 12L | • | • | • | • | • | • | • | • | • |
| | 16L | • | • | • | • | • | • | • | • | • |
| | 20L | • | • | • | • | • | • | • | • | • |

Part Number Alterations

Part Number - P - S - F - B - (CH / KH...etc.)

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

| Alterations | Code | Spec. |
|---|------|--|
| Chain Attachment | CH | Loss-prevention chain (length 600 mm) is attached to gauge body. ① For chains only, refer to P.1845 |
| Engraving of P Dimension | KH | Machines flats on knurled head and engraves P dimension. ① Not applicable to Handle Length 10. |
| Additional Surface Treatment (Electroless Nickel Plating) | MN | Electroless nickel plating is applied. ① Applicable to Material 1045 Carbon Steel or Equivalent only. ② 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. ② Combination with MN is not available. |

| Alterations | Code | Spec. |
|---------------------------------------|------|--|
| Engraving of the Specified Characters | KF | Engraves alphabet or number. Ordering Code: KF-MISUMI0034 Printable Characters: alphabet / number / . (period) ① Not applicable to handle length 10. ② Engraves on the reverse side when combined with KH. ③ Up to 8 digits. ④ When selecting with other options, enter this last. |
| Handle Length | ZC | Changes handle length to 10, 20, 30 or 40. Ordering Code: ZC20 ① Handle length 10 and 20 are only available when P≥5 and pin length (10+B)≤30. ② For large head type, handle length 30 and 40 only are applicable. ③ For handle length 10, there is no tapped hole. ④ For handle length 10, combination with KH is not available. |

Slot Pins for Inspection Jigs

Diamond, Taper Configurable

| Slot Pins for Inspection Jigs - Diamond, Taper Configurable | Material ① | Hardness | (1) Round Tip | | (2) D-Shape Tip | |
|---|------------|----------|--|---|---------------------------------|---|
| | | | Type | Material Code | Type | Material Code |
| | | | 1045 Carbon Steel or Equivalent 1045 Carbon Steel or Equivalent 304 Stainless Steel ② 440C or 420 Stainless Steel | S ^{0.02} KJP Sg6 KJPG | DTMV DTMVH DTMVS DTMVC | S ^{0.02} / F ^{0.05} KJP Sg6 / F ^{0.05} KJPG |

① Some combinations are unavailable. Refer to the price list to select the available combination.

(1) Round Edge Type Small Head: D=8-25

 (2) D-Shaped Tip Type Small Head: D=8-25

Large Head: D=10L-20L ④

 Large Head: D=10L-20L ④

① 1. For electroless nickel plating, please refer to the alteration MN.
 ② 2. 440C or 420 Stainless Steel has an identification groove on D part.
 ③ 3. For shorter handle length, please refer to the alteration ZC.
 ④ 4. Dimensions not specified on the drawing are same as Small Head Type.
 ⑤ 5. There is a relief groove that is approx. 1 mm wide (approx. 0.2 mm deep).
 ⑥ 6. P dimensioned section (tapered area) is not ground.
 ⑦ 7. $K \geq (S+0.3)$

$$K = \frac{|W - \sqrt{P^2 - W^2}|}{\sqrt{P^2 + V^2 + 1} - 2\sqrt{P^2 - W^2} - 2W}$$

* Diamond-shaped Configurable Type are chamfered 1 mm on faces of the diamond shape.

Select Type, Material Code & D Dimension

| (1) Round Tip | (2) D-Shape Tip | D | 0.01 mm Increment | | 0.1 mm Increment | | 1 mm Increment | V (P>V, V≥S+1) | W (V>W) | M |
|---|---------------------------------|---------------------------------|-------------------|-------------|-----------------------------------|--|--------------------------------------|----------------|---------|---|
| | | | P | S (P-1≥S) | F (F<S/2) (2) D-Shape Tip only | B | | | | |
| S ^{0.02} KJP Sg6 KJPG | DTMV DTMVH DTMVS DTMVC | 8 10 12 16 20 25 | 4.00-6.00 | 3.00-4.00 | 0.3-2.0 | 5-15 5-25 For 304 Stainless Steel, B≤Sx5 | 2 3 4 6 8 4 6 8 | M4 | | |
| | | | 6.00-10.00 | 3.00-6.00 | 0.3-3.0 | | | | | |
| | | | 8.00-14.00 | 3.00-8.00 | 0.3-4.0 | | | | | |
| | | | 12.00-18.00 | 4.00-12.00 | 0.5-6.0 | | | | | |
| | | | 16.00-23.00 | 5.00-16.00 | 1.0-8.0 | | | | | |
| | | | 10L-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 | | | | | |

④ Large Head Type (D=10L-20L) is available for 1045 Carbon Steel or Equivalent only. ④ Please select V, W and S dimension so that S dimension is smaller.

Part Number Example

Part Number: Type - Config. Material Code - D - P - S - F - B - V - W

Example: KJP - DTMV - 16 - P10.20 - S6.80 - B20 - V8.0 - W6.0

| D | 1 Round Tip Type - Available Types | | | | 2D-Shape Tip Type - Available Types | | | |
|------------|------------------------------------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | S ^{0.02} | S ^{0.02} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} | S ^{0.02} / F ^{0.05} |
| Small Head | 8 | • | • | • | • | • | • | • |
| | 10 | • | • | • | • | • | • | • |
| | 12 | • | • | • | • | • | • | • |
| | 16 | • | • | • | • | • | • | • |
| | 20 | • | • | • | • | • | • | • |
| Large Head | 10L | • | • | • | • | • | • | • |
| | 12L | • | • | • | • | • | • | • |
| | 16L | • | • | • | • | • | • | • |
| | 20L | • | • | • | • | • | • | • |

Part Number Alterations

Part Number - P - S - F - B - V - W - (CH / KH...etc.)

Example: 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. |
|---|------|--|
| Chain Attachment | CH | Loss-prevention chain (length 600 mm) is attached to gauge body. ① For chains only, refer to P.1845 |
| Engraving of P Dimension | KH | Machines flats on knurled head and engraves P dimension. ① Not applicable to Handle Length 10. |
| Additional Surface Treatment (Electroless Nickel Plating) | MN | Electroless nickel plating is applied. ① Applicable to Material 1045 Carbon Steel or Equivalent only. ② 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. ② Combination with MN is not available. |

| Alterations | Code | Spec. |
|---------------------------------------|------|--|
| Engraving of the Specified Characters | KF | Engraves alphabet or number. Ordering Code: KF-MISUMI0034 Printable Characters: alphabet / number / . (period) ① Not applicable to handle length 10. ② Engraves on the reverse side when combined with KH. ③ Up to 8 digits. ④ When selecting with other options, enter this last. |
| Handle Length | ZC | Changes handle length to 10, 20, 30 or 40. Ordering Code: ZC20 ① Handle length 10 and 20 are only available when P≥5 and pin length (10+B)≤30. ② For large head type, handle length 30 and 40 only are applicable. ③ For handle length 10, there is no tapped hole. ④ For handle length 10, combination with KH is not available. |