

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

Slot Pins for Inspection Jigs – Taper with No Step

D=8-25

| 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 | 45 HRC min. | S _{0.02} KJP | MT | KJP | MK | KJP | MX | KJP | MTN | | | | |
| 1045 Carbon Steel or Equivalent | | | MTH | | | | MKH | | MXH | MTNH | | | |
| 304 Stainless Steel | | | MTS | | | | MKS | | MXS | — | | | |
| ① 440C or 420 Stainless Steel | 45-50 HRC | KJPG | 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 | | | | | |
| S _{0.02} KJP | 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 When X=1, 0.2 When X=2, 0.4 When X=3, 0.6 | 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 | | |
| 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 | | | |

① 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 | | | | | | | | | |
| | KJPM | KJPMTH | KJPMTS | KJPGM | KJPGMTH | KJPGMTS | KJPGMTC | 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

Slot Pins for Inspection Jigs – Threaded Taper, Revolving Diamond-Shaped

| 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
 KJPKDT16 - P10.00 - S8 - M5 - L10 - B15 - 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 | — | — |