

# Slot Pins for Inspection Jigs

## Straight, Stepped Straight

Feature: Straight Slot Pins for Inspection Jigs. For applicable Bushings, see P.1823-1836. For thicker pins, see P.1813.

**Slot Pins for Inspection Jigs - Straight**

Alteration ZC

RoHS 10

Material ①	Hardness	Handle Length (Z) Fixed		Handle Length (Z) Selectable	
		Type	Material Code	Type	Material Code
1045 Carbon Steel or Equivalent	—	P <sup>0.02</sup>	S	P <sup>0.02</sup>	SZ
1045 Carbon Steel or Equivalent	45 HRC min.	KJP	SH	KJP	SHZ
304 Stainless Steel	—	Pg6	SS	Pg6	—
② 440C or 420 Stainless Steel	45-50 HRC min.	KJPG	SSC	KJPG	—

Small Head: D=8-25

Large Head: D=10L-20L ③

P	g6
2.00-3.00	-0.002
3.01-6.00	-0.004
6.01-10.00	-0.005
10.01-18.00	-0.014
18.01-30.00	-0.017
	-0.020

④ Handles and pins may be joined with an adhesive.  
High heat and force may cause separation.

Select Type, Material Code & D Dimension (For details refer to Order Example on P.1807.)

Type	Part Number		D	P 0.01 mm Increment	L 1 mm Increment	Z		M
	Z Fixed	Z Selection				Fixed	Selection	
P <sup>0.02</sup> KJP	S	SZ	8	2.00-6.00	When P<8 5-40 When P=8 5-50 For 304 Stainless Steel, L≤Px5	50	*	M4
			10	2.00-8.00				
			12	4.00-10.00				
			16	8.00-14.00				
			20	10.00-18.00				
			25	15.00-23.00				
Pg6 KJPG	SS	SHZ	10L	10.00-16.00	For longer pins P.1814	30	30	M5
			12L	12.00-20.00				
			16L	16.00-25.00				
			20L	20.00-30.00				

① Large head type (D=10L-20L) is only available in 1045 Carbon Steel or Equivalent only.  
② Dowel holes are not provided on products with Z=10.  
③ Z dimension can be specified for Handle Length Selectable Type only.  
\* Z dimension 10 and 20 are only available when P≥5 and pin length L≤30.  
Select Type, Material Code and D Dimension. (For details, see ordering example.)

**Slot Pins for Inspection Jigs - Stepped Straight**

Alteration ZC

RoHS 10

Material ①	Hardness	Handle Length (Z) Fixed		Handle Length (Z) Selectable	
		Type	Material Code	Type	Material Code
1045 Carbon Steel or Equivalent	—	S <sup>0.02</sup>	D	S <sup>0.02</sup>	DZ
1045 Carbon Steel or Equivalent	45 HRC min.	KJP	DH	KJP	DHZ
304 Stainless Steel	—	Sg6	DS	Sg6	—
② 440C or 420 Stainless Steel	45-50 HRC	KJPG	DSC	KJPG	—
1045 Carbon Steel or Equivalent	—	S <sup>0.02</sup>	DD	—	—
1045 Carbon Steel or Equivalent	45 HRC min.	KJP	DDH	—	—

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

(2) Diamond-Tipped Type Small Head: D=8-25

Large Head: D=10L-20L ③

Large Head: D=10L-20L ③

S	g6
2.00-3.00	-0.002
3.01-6.00	-0.004
6.01-10.00	-0.005
10.01-18.00	-0.014
18.01-29.00	-0.017
	-0.020

**Diamond Part Dimensions**

S	(W)
2.00-2.99	0.8
3.00-6.00	1.5
6.01-10.00	3
10.01-15.00	4
15.01-29.00	5.5

④ Selection of Z dimension with 304 Stainless Steel and 440C or 420 Stainless Steel Round Tipped Type requires Alteration ZC.  
⑤ When P<3, C is 0.5.  
⑥ The joint of each step may have a relief groove (approx. 1 mm wide and approx. 0.2 mm deep), and the tip may have a centering hole.

Select Type, Material Code & D Dimension (For details refer to Order Example on P.1807.)

Type	Part Number		Material Code Z Fixed	D	0.01 mm Increment		1 mm Increment		Z		M		
	Z Fixed	Z Selection			P	S(P>S)	L	B	Fixed	Selection			
(1) Round Edge Type	D	DZ	DD	8	2.50-6.00	2.00-5.50	5-25 When P≤3.99 L≤Px4	5-25 When S≤2.99 B≤Sx4	50	*	M4		
										10		2.50-8.00	2.00-7.50
										12		2.50-10.00	2.00-9.50
										16		3.50-14.00	3.00-13.50
										20		10.00-18.00	5.00-17.00
										25		15.00-23.00	8.00-22.00
S <sup>0.02</sup> KJP	DH	DHZ	DDH	10L	10.00-16.00	5.00-15.00	For 304 Stainless Steel, L≤Px5	For 304 Stainless Steel, B≤Sx5	30	30	M5		
										12L		12.00-20.00	6.00-19.00
										16L		16.00-25.00	8.00-24.00
										20L		20.00-30.00	10.00-29.00

① Z dimension can be specified for Handle Length Selectable Type only. ② Dowel holes are not provided on products with Z=10. ③ For S=8 and B=Sx3, thin diamond is unavailable. \*Z dimension 10 and 20 are available only when P=5 and pin length is (L+B)≤30. ④ Large Head Type (D=10L-20L) is available for 1045 Carbon Steel or Equivalent only.

# Slot Pins for Inspection Jigs

## Straight, Stepped Straight, continued

D	Handle Length (Z) Fixed Type - Available Types										
	KJPS	KJPSH	P <sup>0.02</sup>	KJPSS	KJPSSC	KJPSS	KJPGS	KJPGSH	P <sup>0.02</sup>	KJPGSS	KJPGSSC
Small Head	8	*	*	*	*	*	*	*	*	*	*
	10	*	*	*	*	*	*	*	*	*	*
	12	*	*	*	*	*	*	*	*	*	*
	16	*	*	*	*	*	*	*	*	*	*
	20	*	*	*	*	*	*	*	*	*	*
Large Head	10L	*	*	*	*	*	*	*	*	*	*
	12L	*	*	*	*	*	*	*	*	*	*
	16L	*	*	*	*	*	*	*	*	*	*
	20L	*	*	*	*	*	*	*	*	*	*

  

D	Handle Length (Z) Fixed Type - Available Types											
	1 Round Tip					2 Diamond-Tipped Type						
D	KJPD	KJPDH	S <sup>0.02</sup>	KJPDS	KJPDSC	KJPGD	KJPGDH	S <sup>0.02</sup>	KJPGDS	KJPGDSC	KJPPD	KJPPDH
	Small Head	8	*	*	*	*	*	*	*	*	*	*
10		*	*	*	*	*	*	*	*	*	*	*
12		*	*	*	*	*	*	*	*	*	*	*
16		*	*	*	*	*	*	*	*	*	*	*
20		*	*	*	*	*	*	*	*	*	*	*
Large Head	10L	*	*	*	*	*	*	*	*	*	*	*
	12L	*	*	*	*	*	*	*	*	*	*	*
	16L	*	*	*	*	*	*	*	*	*	*	*
	20L	*	*	*	*	*	*	*	*	*	*	*

**Part Number Example**

Straight: Handle Length Z Fixed: KJP S 10L - P14.50 - L10

Stepped Straight: Handle Length Z Fixed: KJP D 12 - P8.03 - S5.00 - L5 - B10

Handle Length Z Selectable: KJP SZ 16 - P10.20 - L30 - Z40

Handle Length Z Selectable: KJPG DZ 16L - P20.25 - S16.00 - L25 - B20 - Z30

**Application Example**

**Large Head Type Example of Use**

Avoids interference when pins are arranged close together.

**Part Number Alterations**

KJPSH10 - P5.50 - L10 - CH-LKC

KJPSZ20 - P16.65 - L30 - Z20 - MN

KJPGD10L - P13.50 - S5.05 - L25 - B10 - KF

KJPDS12 - P5.00 - S4.00 - L10 - B16 - ZC30

**Alterations**

Alterations	Code	Spec.
Chain Alteration	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. ① Not applicable to handle length 10. ② Engraved on the reverse side when combined with KF and KHS.
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 and KHS. ③ Up to 8 digits. ④ When combining with other options, enter this last.
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.
L Dimension Tolerance	LKC	Changes L dimension tolerance to ±0.05. Ordering Code: LKC ① When the LKC is used, 0.1 mm increment can be specified for L Dimension. ② L<30 ③ P>4
No Relief Groove	NMN	Omit the relief groove between knurled part and straight part on the step. ① Not applicable to Large Head Type.
Handle Length	ZC	Changes handle length to 10, 20, 30 and 40. Ordering Code: ZC20 ① Handle length 10 and 20 are available only when P=5 and pin OAL (L or L+B) ≤30. ② Only applicable to Diamond Tip Shaped, 304 Stainless Steel and 440C or 420 Stainless Steel. ③ For handle length 10, there is no tapped hole. ④ For large head type, ZC30 and 40 only are applicable.
Tapered Tip	STT	Tapers the tip. ① Applicable when L≥10, B≥10. ② The length of m is included in that of L or B.

**Applicable to Stepped Straight Type Only**

Alterations	Code	Spec.
P Dimension Tolerance	PKC	Changes P dimension tolerance to g6. ① Applicable to Stepped Straight Type only.
Engraving of S Dimension	KHS	Machines flats on knurled head and engraves P dimension. ① Available for Stepped Type only. ② Not applicable to handle length 10. ③ Engraved on the reverse side when KH and KF are combined.

**Applicable to Straight Type Only**

Alterations	Code	Spec.
Air Vent	ABT	Adds air vent to P dimension. ① Applicable to Straight Type only.

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