INCLINED PINS・DIRECT PUSH-UP PINS①

—STEPPED／KEY FLATS TYPE—

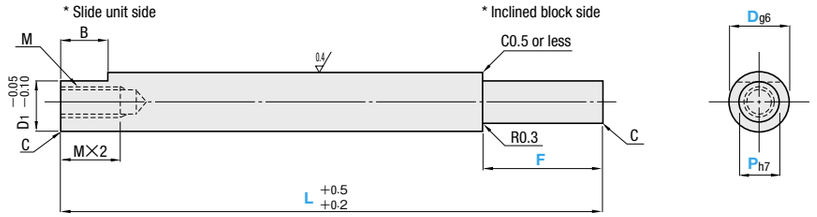
Non JIS material definition is listed on P.1351 - 1352

RoHS

Stepped type

K—KSPSA (Applicable to standard SCZN・SCZA)

KSPSA (For SCY)

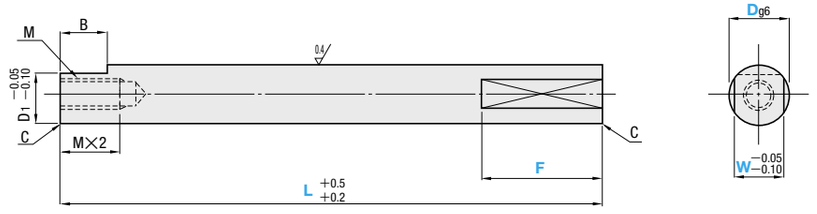


M SUJ2 H 58HRC～ S Induction hardening (depth: 0.5mm or more)

Key flats type

K—KSPSB (Applicable to standard SCZN・SCZA)

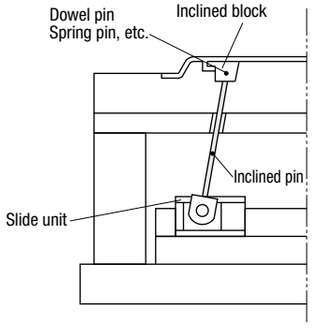
KSPSB (For SCY)



M SUJ2 H 58HRC～ S Induction hardening (depth: 0.5mm or more)

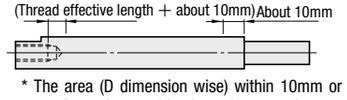
Example

- When connecting the inclined pin and inclined block, use a dowel pin, etc. to fix them after preparing a common hole.
- The inclined pin's full length (L) is set in the positive range of tolerance in order to accommodate for fine adjustment.



＜About shaft end processing＞

- Induction hardening is not applied since machining of shaft ends and key flats are performed after annealing.



* The area (D dimension wise) within 10mm or so from the machined section may have a lower hardness due to annealing.

■Dimension contrast table

Corresponding oil-free slide units	Standard type (SCZN・SCZA)					SCY			
Part Number	K—KSPSA K—KSPSB		K—KSPSC(P.671) K—KSPSD(P.671)	K—KSPSE(P.673)		KSPSA KSPSB		KSPSC(P.671)	KSPSE(P.673)
D	M	B	M	M	B	M	B	M	M
8	—	—	—	—	—	M 4	10	M 4	M4
10	—	—	—	—	—	M 5	10	M 5	M5
12	M 5	13	M 5	M 5	13	M 6	10	M 6	—
16	M 8	14	M 6	M 8	14	M 8	13	M 8	—
20	M10	16	M 8	M10	16	M10	16	M10	—
25		18	M10		18	M12	19	M12	—
30		20	M10		20	M12	19	M12	—

- Note that K—KSPSA and K—KSPSB cannot be replaced by KSPSA and KSPSB.
- Note that inclined pins of D8 and D10 corresponding to the standard are not on sale.
- Use KSPSA/KSPSB12～30 for maintenance.

■K—KSPSA Stepped type (Applications : slide units standard SCZN P.659・SCZA P.661)

D_1	B	M	C	Dg6		Part Number Type	Part Number D	1mm increments L	1mm increments F	1mm increments P	U/Price 1～9 L100～200	201～300	301～400	401～500	501～600	601～800
11	13	M5	0.5	12	−0.006	K—KSPSA	12	100～800	P≦F≦P×4 (L—B—F≧10)	6～ 9	Quotation					
15	14	M8		16	−0.017		16			8～13						
18	16	M10	1.0	20	−0.007 −0.020		20			10～17						
22	18			25			25			12～22						
27.5	20			30			30			15～27						

■KSPSA Stepped type (Applications : slide units for SCY P.665)

D_1	B	M	C	Dg6		Part Number Type	Part Number D	1mm increments L	1mm increments F	1mm increments P	U/Price 1～9 L100～200	201～300	301～400	401～500	501～600	601～800
7.5	10	M4	0.3	8	−0.005	KSPSA	8	100～600	P≦F≦P×4 (L—B—F≧10)	4～ 6	Quotation					
8.5	10	M5		10	−0.014		10	100～800		5～ 8						
10	10	M6	0.5	12	−0.006		12			6～ 9						
13	13	M8		16	−0.017		16			8～13						
17	16	M10	1.0	20	−0.007 −0.020		20			10～17						
22	19	M12		25			25			12～22						
27	19	M12		30			30			15～27						

■K—KSPSB Key flats type (Applications : slide units standard SCZN P.659・SCZA P.661)

D_1	B	M	C	Dg6		Part Number Type	Part Number D	1mm increments L	1mm increments F	1mm increments W	U/Price 1～9 L100～200	201～300	301～400	401～500	501～600	601～800
11	13	M5	0.5	12	−0.006	K—KSPSB	12	100～800	10～50 (L—B—F≧10)	3～10	Quotation					
15	14	M8		16	−0.017		16			6～14						
18	16	M10	1.0	20	−0.007 −0.020		20			10～18						
22	18			25			25			15～23						
27.5	20			30			30			20～28						

■KSPSB Key flats type (Applications : slide units for SCY P.665)

D_1	B	M	C	Dg6		Part Number Type	Part Number D	1mm increments L	1mm increments F	1mm increments W	U/Price 1～9 L100～200	201～300	301～400	401～500	501～600	601～800
7.5	10	M4	0.3	8	−0.005	KSPSB	8	100～600	10～50 (L—B—F≧10)	3～ 7	Quotation					
8.5	10	M5		10	−0.014		10	100～800		3～ 8						
10	10	M6	0.5	12	−0.006		12			3～10						
13	13	M8		16	−0.017		16			6～14						
17	16	M10	1.0	20	−0.007 −0.020		20			10～18						
22	19	M12		25			25			15～23						
27	19	M12		30			30			20～28						

Order

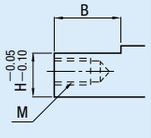
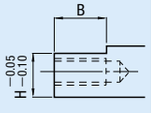
	Part Number	L	F	P	W
SCZN・SCZA Applications	K—KSPSA12	500	F25	P8	
For SCY	KSPSA8	300	F20	P5	
SCZN・SCZA Applications	K—KSPSB12	300	F20		W4
For SCY	KSPSB8	300	F20		W7

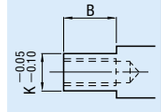
Days to Ship Quotation

Price Quotation

Alterations

Part Number	L	F	P	W	(SC・SCW…etc.)
KSPSA20	300	F30	P17		SC — B16 — H18

Alteration	Code	Spec.	1Code
	SCM	Inclined pin holder alteration available for small loose core unit by changing dimensions of tap hole and edge cutting. Available for D dimensions of KSPSA at 8, 10, 12. Combination with SC and SCW not available. Designation method SCM D M B H 8 M5 15 7.5 10 M6 17 9.5 12 M8 11	Quotation
	SC	Flat edge cutting (1 plane) Chamfering dimension can be changed. B=1mm increments, H=1mm increments Not available for D8・10 10≦B≦50 L—B—F≧10 Designation method SC—B16—H17 D H D H 12 10≦H≦11 20 17≦H≦19 16 13≦H≦15 25 22≦H≦24 30 25≦H≦29 Note that the alteration (SC) is not applicable to slide unit.	

Alteration	Code	Spec.	1Code
	SCW	Flat edge cutting (2 planes) B=1mm increments, K=1mm increments Not available for D8・10 10≦B≦50 L—B—F≧10 Designation method SCW—B16—K17 D K D K 12 8≦K≦10 20 14≦K≦18 16 10≦K≦14 25 19≦K≦24 30 20≦K≦29 Note that the alteration (SCW) is not applicable to slide unit.	Quotation

Slide Cores Loose Cores