



**Hinge pins** **CLKGH** **RoHS**

■ S45C  
■ 55HRC~ (Induction hardened)

D <sub>16</sub>	ℓ	M	N	Catalog No.		Base unit price 1~19 pieces
				Type	L	
25	-0.007 -0.020	10	5	4	CLKGH	50~150
						151~300
30	-0.009 -0.025	10	5	5	CLKGH	50~150
						151~300
35	-0.009 -0.025	10	5	5	CLKGH	80~150
						151~300
40	-0.009 -0.025	10	5	5	CLKGH	100~150
						151~300
45	-0.009 -0.025	10	5	5	CLKGH	100~150
						151~300
50	-0.009 -0.025	10	5	5	CLKGH	100~150
						151~300

Order **Catalog No.** — L  
CLKGH 30 — 157

Days to Ship **Quotation**

Price **Quotation**

**Hinge pin keys** **HK** **RoHS**

**HK**

■ SS400

**Tension spring pins** **SSPO** **RoHS**

**SSPO**

This product was discontinued in 2017.

Catalog No. : SSPO WSP0

■ S45C  
■ Black oxide (Fe<sub>3</sub>O<sub>4</sub>)

A	B	C	D	E	T	Catalog No.		Base unit price 1~19 pieces
						Type	No.	
20	35	18	6.5	13	4.5	HK	7	Quotation
							8	
25	40	20	6.5	15	4.5	HK	8	Quotation

S	W	M×P	ℓ	Catalog No.		Base unit price 1~19 pieces
				Type	D	
8	14	12×1.75	24	SSPO	16	12 15 18
					20	
10	22	20×2.5	40	SSPO	25	Quotation
					25	
8	14	12×1.75	24	WSP0	16	25 30
					20	
10	22	20×2.5	40	WSP0	20	25 30 35
					25	
10	22	20×2.5	40	WSP0	25	35 45
					35	

Order **Catalog No.**  
HK 7

Days to Ship **Quotation**

Price **Quotation**

**Tension springs** **RoHS**

**AWL**  
**AWM**  
**AWH**  
**AWB**

**AWL**  
**AWM**  
**AWH**  
**AWB**

Ⓜ Maximum load N(kgf) max. ±10%

Ⓜ Equivalent to SWP—A

**Tension springs** **RoHS**

**AWK**

**AWK**

Ⓜ ① Coil spring SWP—A  
② End part S45C  
③ Hook part SWP—A (wire diameter φ 6)

**Tension spring rings** **RoHS**

**BSR**

**BSR**

Ⓜ SS400  
■ Black oxide (Fe<sub>3</sub>O<sub>4</sub>)

**■ Tension springs**

D <sub>1</sub>	d	Spring constant N/mm (kgf/mm)	F max. N(kgf)	Maximum load N(kgf)	Initial tension N(kgf)	Catalog No.		Base unit price 1~19 pieces
						Type	D—L	
21 (±0.4)	2	0.95 [0.097]	55.22	61.98 (6.32)	9.22 (0.94)	AWL25	68	Quotation
		0.60 [0.061]	87.94				83	
		0.39 [0.040]	132.93				105	
		0.25 [0.026]	210.64				143	
		0.16 [0.016]	333.34				203	
26.8 (±0.5)	2.6	1.30 [0.133]	64.94	101.40 (10.34)	16.57 (1.69)	AWL32	86.1	Quotation
		0.82 [0.084]	103.42				106.5	
		0.54 [0.055]	156.33				135.5	
		0.34 [0.035]	247.72				184.9	
		0.22 [0.022]	392.02				262.9	
19.8 (±0.4)	2.6	2.95 [0.301]	35.10	132.39 (13.50)	28.73 (2.93)	AWM25	72.1	Quotation
		1.86 [0.190]	55.90				92.5	
		1.23 [0.125]	84.50				121.5	
		0.77 [0.079]	133.90				170.9	
		0.49 [0.050]	211.90				248.9	
25.6 (±0.5)	3.2	3.19 [0.325]	45.50	184.66 (18.83)	39.42 (4.02)	AWM32	91.2	Quotation
		2.00 [0.204]	72.46				116.8	
		1.32 [0.135]	109.53				152.0	
		0.83 [0.085]	173.56				212.8	
		0.53 [0.054]	274.66				308.8	

D <sub>1</sub>	d	Spring constant N/mm (kgf/mm)	F max. N(kgf)	Maximum load N(kgf)	Initial tension N(kgf)	Catalog No.		Base unit price 1~19 pieces
						Type	D—L	
18.6 (±0.4)	3.2	7.37 [0.752]	23.76	242.22 (24.70)	67.08 (6.84)	AWH25	77.2	Quotation
		4.63 [0.472]	37.84				102.8	
		3.06 [0.312]	57.20				138.0	
		1.93 [0.197]	90.64				198.8	
24 (±0.5)	4	1.22 [0.124]	143.44	353.53 (36.05)	99.44 (10.14)	AWH32	98	Quotation
		0.84 [0.0865]	29.97				130	
		0.53 [0.0543]	47.73				174	
		0.35 [0.0359]	72.15				250	
17 (±0.4)	4	2.23 [0.227]	114.33	466.99 (47.62)	161.91 (16.51)	AWB25	84	Quotation
		1.40 [0.143]	180.93				116	
		0.99 [0.101]	274.66				160	
		0.66 [0.067]	411.99				236	

● Load (kgf) = Load (N) × 0.101972  
Ⓜ The initial tension values are provided only for reference.

Ⓜ kgf = N × 0.101972

Wire diameter d	Spring constant N/mm (kgf/mm)	F=L×23%		F=L×25%		Initial tension N Load (kgf)	Identifying color	Catalog No. Type D—L	Base unit price 1~19 pieces
		Fmm	Load N (kgf)	Fmm	Load N (kgf)				
5.0	12.55 [1.28]	42.1	703.1 [71.7]	45.7	748.3 [76.3]	174.8 (17.84)	Brown Red Black Yellow Light blue	AWK 34—183	Quotation
	10.91 [1.11]	45.5	671.2 [68.3]	49.5	714.8 [72.8]				
	10.04 [1.03]	47.8	654.7 [67.1]	52.0	696.9 [71.4]				
	9.30 [0.95]	50.1	640.7 [65.4]	54.5	681.6 [69.6]				
	8.66 [0.88]	52.4	628.6 [64.0]	57.0	668.4 [68.0]				
Operating count		1,000,000		500,000					

**■ Tension spring rings**

Type	Catalog No.	d	Base unit price 1~19 pieces	
			D	Price
BSR		4	34	Quotation
		5	40	
		6	40	

Order **Catalog No.**  
AWL25—105  
AWK34—183  
BSR4—40

**■ Features**  
Because the hook ③ and the coil spring ① are separate parts, this product is more resistant to fatigue fracture caused by axial rotation and uneven load. The coil spring ① and the end part ② are in linear contact, providing high durability.

① Coil spring ② End part ③ Hook

Days to Ship **Quotation**

Price **Quotation**