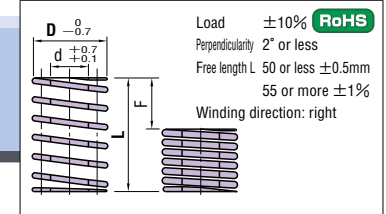
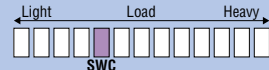


COIL SPRINGS

—SWC—



D	d	L	Spring constant N/mm (kgf/mm)	F=LX50%		F=LX55%		F=LX60%		Catalog No.	Base unit price
				Fmm	Load N (kgf)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
6	3	15	3.60 (0.37)	7.5	8.3	Out of range	SWC6—15	1~19 pieces			
			20.27 (0.28)	10.0	11.0	20					
			25.21 (0.22)	12.5	13.8	25					
			30.18 (0.18)	15.0	16.5	30					
			35.15 (0.16)	17.5	19.3	35					
8	4.6	20	2.86 (0.29)	10.0	11.0	12.0	SWC8—15	1~19 pieces			
			25.29 (0.23)	12.5	13.8	15.0					
			30.19 (0.19)	15.0	16.5	18.0					
			35.16 (0.17)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					
10	5.8	25	2.62 (0.27)	17.5	19.3	21.0	SWC10—15	1~19 pieces			
			30.35 (0.31)	15.0	16.5	18.0					
			35.26 (0.27)	17.5	19.3	21.0					
			40.29 (0.23)	20.0	22.0	24.0					
			45.23 (0.21)	22.5	24.8	27.0					
			50.18 (0.19)	25.0	27.5	30.0					
			55.16 (0.17)	27.5	30.3	33.0					
			60.15 (0.16)	30.0	33.0	36.0					
			65.14 (0.14)	32.5	35.8	39.0					
			70.13 (0.13)	35.0	38.5	42.0					
12	7.4	30	2.43 (0.25)	22.5	24.8	27.0	SWC12—20	1~19 pieces			
			30.35 (0.31)	15.0	16.5	18.0					
			35.26 (0.27)	17.5	19.3	21.0					
			40.29 (0.23)	20.0	22.0	24.0					
			45.23 (0.21)	22.5	24.8	27.0					
			50.18 (0.19)	25.0	27.5	30.0					
			55.16 (0.17)	27.5	30.3	33.0					
			60.15 (0.16)	30.0	33.0	36.0					
			65.14 (0.14)	32.5	35.8	39.0					
			70.13 (0.13)	35.0	38.5	42.0					
14	8.5	35	2.19 (0.22)	25.0	27.5	30.0	SWC14—25	1~19 pieces			
			30.35 (0.31)	15.0	16.5	18.0					
			35.26 (0.27)	17.5	19.3	21.0					
			40.29 (0.23)	20.0	22.0	24.0					
			45.23 (0.21)	22.5	24.8	27.0					
			50.18 (0.19)	25.0	27.5	30.0					
			55.16 (0.17)	27.5	30.3	33.0					
			60.15 (0.16)	30.0	33.0	36.0					
			65.14 (0.14)	32.5	35.8	39.0					
			70.13 (0.13)	35.0	38.5	42.0					

D	d	L	Spring constant N/mm (kgf/mm)	F=LX50%		F=LX55%		F=LX60%		Catalog No.	Base unit price
				Fmm	Load N (kgf)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
16	9.5	40	2.16 (0.22)	12.5	13.8	15.0	SWC16—25	1~19 pieces			
			30.18 (0.18)	15.0	16.5	18.0					
			35.15 (0.16)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					
			70.08 (0.08)	35.0	38.5	42.0					
18	11	50	1.83 (0.19)	62.5	68.8	75.0	SWC18—25	1~19 pieces			
			25.10 (0.27)	12.5	13.8	15.0					
			30.18 (0.18)	15.0	16.5	18.0					
			35.15 (0.16)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					
20	12.5	60	1.43 (0.15)	20.0	22.0	24.0	SWC20—25	1~19 pieces			
			25.10 (0.27)	12.5	13.8	15.0					
			30.18 (0.18)	15.0	16.5	18.0					
			35.15 (0.16)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					
22	13.5	70	1.14 (0.12)	40.0	44.0	48.0	SWC22—25	1~19 pieces			
			25.10 (0.27)	12.5	13.8	15.0					
			30.18 (0.18)	15.0	16.5	18.0					
			35.15 (0.16)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					

D	d	L	Spring constant N/mm (kgf/mm)	F=LX50%		F=LX55%		F=LX60%		Catalog No.	Base unit price
				Fmm	Load N (kgf)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
25	16	80	0.82 (0.08)	35.0	38.5	42.0	SWC25—25	1~19 pieces			
			25.10 (0.27)	12.5	13.8	15.0					
			30.18 (0.18)	15.0	16.5	18.0					
			35.15 (0.16)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					
27	17.5	90	0.82 (0.08)	35.0	38.5	42.0	SWC27—25	1~19 pieces			
			25.10 (0.27)	12.5	13.8	15.0					
			30.18 (0.18)	15.0	16.5	18.0					
			35.15 (0.16)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					
30	20	100	0.72 (0.07)	40.0	44.0	48.0	SWC30—25	1~19 pieces			
			25.10 (0.27)	12.5	13.8	15.0					
			30.18 (0.18)	15.0	16.5	18.0					
			35.15 (0.16)	17.5	19.3	21.0					
			40.14 (0.15)	20.0	22.0	24.0					
			45.12 (0.13)	22.5	24.8	27.0					
			50.11 (0.12)	25.0	27.5	30.0					
			55.10 (0.11)	27.5	30.3	33.0					
			60.09 (0.10)	30.0	33.0	36.0					
			65.08 (0.09)	32.5	35.8	39.0					

● Load calculation method: Load=Spring constant×Deflection
(SI unit) N=N/mm×Fmm
kgf=kgf/mm×Fmm
(kgf=N×0.101972)

⚠ The maximum deflection for springs shown as "Out of range" is 55%.
Do not use such a spring at a deflection exceeding 55%.

- Product guide P.1396
- Load graph P.1432
- Instructions and precautions for the use of coil springs P.1397
- Clearance of D dim. and counterbore hole, and of d dim. and shaft P.1397

Order **Catalog No.**
SWC 10—30

Days to Ship **Quotation**

Price **Quotation**

Alterations **(NT) — Catalog No.**
NT — SWC 10—30
Quotation

Alteration	Coating removal
Code	NT
Spec.	Removal of the coil spring coating by shot peening ⚠ Springs with the coating removed are extremely susceptible to corrosion. Handle them with care. Corrosion of the spring will result in early breakage. ⚠ There may be greater variation in the load capacity and other characteristics between lots than with ordinary coated products.
Price	Quotation

COIL SPRINGS