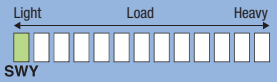


# COIL SPRINGS

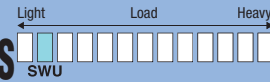
## — ULTRA HIGH DEFLECTION SWY —



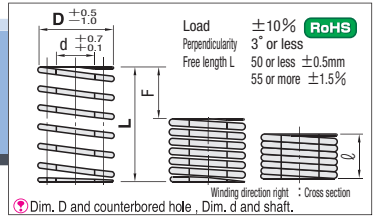
**SGP Stock**  
Printed in Red

# COIL SPRINGS

## — SUPER HIGH DEFLECTION SWU —



**SGP Stock**  
Printed in Red



The volume discount rate is also applicable to alteration cost.  
All price & lead time are to be quoted.

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All price & lead time are to be quoted.

D	d	L	Spring constant N/(mm/kgf/mm)	Solid height mm	F=LX65% Fmm	Catalog No.	U/Price
11	7	20	2.26 (0.23)	5.0	13.0	SWY11-20	20
		25	1.81 (0.18)	6.3	16.3	25	
		30	1.51 (0.15)	7.5	19.5	30	
		35	1.29 (0.13)	8.8	22.8	35	
		40	1.13 (0.12)	10.0	26.0	40	
		45	1.01 (0.10)	11.3	29.3	45	
		50	0.91 (0.092)	12.5	32.5	50	
		55	0.82 (0.084)	13.8	35.8	55	
		60	0.75 (0.077)	15.0	39.0	60	
		65	0.70 (0.071)	16.3	42.3	65	
12.5	8.5	20	3.09 (0.32)	5.0	13.0	SWY12.5-20	20
		25	2.47 (0.25)	6.3	16.3	25	
		30	2.06 (0.21)	7.5	19.5	30	
		35	1.77 (0.18)	8.8	22.8	35	
		40	1.55 (0.16)	10.0	26.0	40	
		45	1.37 (0.14)	11.3	29.3	45	
		50	1.24 (0.13)	12.5	32.5	50	
		55	1.12 (0.11)	13.8	35.8	55	
		60	1.03 (0.11)	15.0	39.0	60	
		65	0.95 (0.10)	16.3	42.3	65	
16.5	10.5	20	7.02 (0.72)	5.0	13.0	SWY16.5-20	20
		25	5.61 (0.57)	6.3	16.3	25	
		30	4.68 (0.48)	7.5	19.5	30	
		35	4.01 (0.41)	8.8	22.8	35	
		40	3.51 (0.36)	10.0	26.0	40	
		45	3.12 (0.32)	11.3	29.3	45	
		50	2.81 (0.29)	12.5	32.5	50	
		55	2.55 (0.26)	13.8	35.8	55	
		60	2.34 (0.24)	15.0	39.0	60	
		65	2.16 (0.22)	16.3	42.3	65	

D	d	L	Spring constant N/(mm/kgf/mm)	Solid height mm	F=LX65% Fmm	Catalog No.	U/Price
20.5	13.5	30	5.58 (0.57)	7.5	19.5	SWY20.5-30	30
		35	4.78 (0.49)	8.8	22.8	35	
		40	4.19 (0.43)	10.0	26.0	40	
		45	3.72 (0.38)	11.3	29.3	45	
		50	3.35 (0.34)	12.5	32.5	50	
		55	3.04 (0.31)	13.8	35.8	55	
		60	2.79 (0.28)	15.0	39.0	60	
		65	2.58 (0.26)	16.3	42.3	65	
		70	2.39 (0.24)	17.5	45.5	70	
		75	2.23 (0.23)	18.8	48.8	75	
24.5	16.5	30	6.99 (0.71)	7.5	19.5	SWY24.5-30	30
		35	5.99 (0.61)	8.8	22.8	35	
		40	5.24 (0.53)	10.0	26.0	40	
		45	4.66 (0.48)	11.3	29.3	45	
		50	4.19 (0.43)	12.5	32.5	50	
		55	3.81 (0.39)	13.8	35.8	55	
		60	3.50 (0.36)	15.0	39.0	60	
		65	3.23 (0.33)	16.3	42.3	65	
		70	3.00 (0.31)	17.5	45.5	70	
		75	2.80 (0.29)	18.8	48.8	75	

D	d	L	Spring constant N/(mm/kgf/mm)	Solid height mm	F=LX65% Fmm	Catalog No.	U/Price
37	26	40	11.32 (1.15)	10.0	26.0	SWY37-40	40
		45	10.06 (1.03)	11.3	29.3	45	
		50	9.05 (0.92)	12.5	32.5	50	
		55	8.23 (0.84)	13.8	35.8	55	
		60	7.54 (0.77)	15.0	39.0	60	
		65	6.96 (0.71)	16.3	42.3	65	
		70	6.47 (0.66)	17.5	45.5	70	
		75	6.03 (0.62)	18.8	48.8	75	
		80	5.66 (0.58)	20.0	52.0	80	
		90	5.03 (0.51)	22.5	58.5	90	
42	31	50	12.07 (1.23)	12.5	32.5	SWY42-50	50
		60	10.06 (1.03)	15.0	39.0	60	
		70	8.62 (0.88)	17.5	45.5	70	
		80	7.54 (0.77)	20.0	52.0	80	
		90	6.71 (0.68)	22.5	58.5	90	
		100	6.03 (0.62)	25.0	65.0	100	
		110	5.49 (0.56)	27.5	71.5	110	
		120	5.03 (0.51)	30.0	78.0	120	
		130	4.64 (0.47)	32.5	84.5	130	
		140	4.31 (0.44)	35.0	91.0	140	

D	d	L	Spring constant N/(mm/kgf/mm)	Solid height mm	F=LX60% Fmm	Catalog No.	U/Price
10.5	6.0	15	7.63 (0.78)	4.5	9.0	SWU10.5-15	15
		20	5.72 (0.58)	6.0	12.0	20	
		25	4.58 (0.47)	7.5	15.0	25	
		30	3.81 (0.39)	9.0	18.0	30	
		35	3.27 (0.33)	10.5	21.0	35	
		40	2.86 (0.29)	12.0	24.0	40	
		45	2.54 (0.26)	13.5	27.0	45	
		50	2.29 (0.23)	15.0	30.0	50	
		55	2.08 (0.21)	16.5	33.0	55	
		60	1.91 (0.19)	18.0	36.0	60	
12.5	7.0	15	8.72 (0.89)	4.5	9.0	SWU12.5-15	15
		20	6.54 (0.67)	6.0	12.0	20	
		25	5.23 (0.53)	7.5	15.0	25	
		30	4.36 (0.44)	9.0	18.0	30	
		35	3.74 (0.38)	10.5	21.0	35	
		40	3.27 (0.33)	12.0	24.0	40	
		45	2.91 (0.30)	13.5	27.0	45	
		50	2.62 (0.27)	15.0	30.0	50	
		55	2.38 (0.24)	16.5	33.0	55	
		60	2.18 (0.22)	18.0	36.0	60	

D	d	L	Spring constant N/(mm/kgf/mm)	Solid height mm	F=LX60% Fmm	Catalog No.	U/Price
21	13.5	25	15.04 (1.53)	7.5	15.0	SWU21-25	25
		30	12.53 (1.28)	9.0	18.0	30	
		35	10.74 (1.10)	10.5	21.0	35	
		40	9.40 (0.96)	12.0	24.0	40	
		45	8.35 (0.85)	13.5	27.0	45	
		50	7.52 (0.77)	15.0	30.0	50	
		55	6.83 (0.70)	16.5	33.0	55	
		60	6.27 (0.64)	18.0	36.0	60	
		65	5.78 (0.59)	19.5	39.0	65	
		70	5.37 (0.55)	21.0	42.0	70	
26	16.5	30	16.34 (1.67)	9.0	18.0	SWU26-30	30
		35	14.01 (1.43)	10.5	21.0	35	
		40	12.26 (1.25)	12.0	24.0	40	
		45	10.90 (1.11)	13.5	27.0	45	
		50	9.81 (1.00)	15.0	30.0	50	
		55	8.92 (0.91)	16.5	33.0	55	
		60	8.17 (0.83)	18.0	36.0	60	
		65	7.54 (0.77)	19.5	39.0	65	
		70	7.00 (0.71)	21.0	42.0	70	
		75	6.54 (0.67)	22.5	45.0	75	

D	d	L	Spring constant N/(mm/kgf/mm)	Solid height mm	F=LX60% Fmm	Catalog No.	U/Price
37	26	40	19.20 (1.96)	12.0	24.0	SWU37-40	40
		45	17.07 (1.74)	13.5	27.0	45	
		50	15.36 (1.57)	15.0	30.0	50	
		55	13.97 (1.42)	16.5	33.0	55	
		60	12.80 (1.31)	18.0	36.0	60	
		65	11.82 (1.21)	19.5	39.0	65	
		70	10.97 (1.12)	21.0	42.0	70	
		75	10.24 (1.04)	22.5	45.0	75	
		80	9.60 (0.98)	24.0	48.0	80	
		90	8.54 (0.87)	27.0	54.0	90	
43	31	100	7.68 (0.78)	30.0	60.0	SWU43-50	100
		110	6.98 (0.71)	33.0	66.0	110	
		120	6.40 (0.65)	36.0	72.0	120	
		130	5.91 (0.60)	39.0	78.0	130	
		140	5.49 (0.56)	42.0	84.0	140	
		150	5.12 (0.52)	45.0	90.0	150	
		160	4.80 (0.49)	48.0	96.0	160	
		170	4.52 (0.46)	51.0	102.0	170	
		180	4.27 (0.44)	54.0	108.0	180	
		190	4.04 (0.41)	57.0	114.0	190	

**Order** Catalog No.  
SWY 12.5-40  
SWU 17-40  
Printed in Red  
SGP Stock  
Printed in Black  
3 Days

**Delivery**

For area out of Singapore please refer to P.I.

**Volume discount rate**

Quantity	1-19	20-49	50-199	200-500
Rate	-	5%	10%	15%

**Alterations** (NT) - Catalog No.  
NT - SWY 30-40  
7 Days

**Alteration**

**Code** NT

**Spec.** Peel the coating by shot peening. Since the springs which have undergone the painting peeling are easy to rust, be careful in handling. A rusty spring could cause early breakage. Compared to painted springs, there may be some variations in terms of load, etc. depending on the lot.

**Price** Free of Change

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**Price** Free of Change

SWOSC - V  
Load calculation method : N (load) = N/mm (spring constant) X F (deflection)  
(International units) N = N/mm X Fmm  
kgf = kgf/mm X Fmm  
(kgf = N X 0.101972)

SWOSC - V  
Load calculation method : N (load) = N/mm (spring constant) X F (deflection)  
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Stocks Availability Subjected to Prior Sales.

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