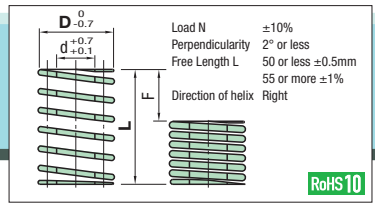


# Coil Spring

## Heavy Load SWH



RoHS10

D	d	L	Spring Constant N/mm(kg/mm)	F=Lx19.2%		F=Lx21.6%		F=Lx24%		Part Number	Unit Price
				Fmm	Load N(kgf)	Fmm	Load N(kgf)	Fmm	Load N(kgf)		
6	3	15	38.1(3.9)	2.9	3.2	3.6	4.8	6.0	7.2	SWH 6- 15 20 25 30 35 40 45 50 55 60	15 20 25 30 35 40 45 50 55 60
		20	28.5(2.9)	3.8	4.3	4.8	5.4	6.0	6.7		
		25	22.8(2.3)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	19.0(1.9)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	16.3(1.7)	6.7	7.6	8.4	9.3	10.1	10.9		
		40	14.3(1.5)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	12.7(1.3)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	11.4(1.2)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	10.4(1.1)	10.6	11.9	13.2	14.4	15.6	16.8		
		60	9.5(1.0)	11.5	13.0	14.4	15.6	16.8	18.0		
8	4	10	85.8(8.8)	1.9	2.2	2.4	2.8	3.2	3.6	SWH 8- 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80
		15	57.2(5.8)	2.9	3.2	3.6	4.0	4.4	4.8		
		20	42.9(4.4)	3.8	4.3	4.8	5.4	6.0	6.6		
		25	34.3(3.5)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	28.6(2.9)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	24.5(2.5)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	21.5(2.2)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	19.1(1.9)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	17.2(1.8)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	15.6(1.6)	10.6	11.8	13.2	14.4	15.6	16.8		
10	5	10	123(12.5)	1.9	2.2	2.4	2.8	3.2	3.6	SWH 10- 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90
		15	81.7(8.3)	2.9	3.2	3.6	4.0	4.4	4.8		
		20	61.3(6.3)	3.8	4.3	4.8	5.4	6.0	6.6		
		25	49.0(5.0)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	40.8(4.2)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	35.0(3.6)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	30.6(3.1)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	27.2(2.8)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	24.5(2.5)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	22.3(2.3)	10.6	11.8	13.2	14.4	15.6	16.8		
12	6	15	117(11.9)	2.9	3.2	3.6	4.0	4.4	4.8	SWH 12- 15 20 25 30 35 40 45 50 55 60 65 70 75 80 90	15 20 25 30 35 40 45 50 55 60 65 70 75 80 90
		20	87.7(8.9)	3.8	4.3	4.8	5.4	6.0	6.6		
		25	70.2(7.2)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	58.5(6.0)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	50.1(5.1)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	43.9(4.5)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	39.0(4.0)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	35.1(3.6)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	31.9(3.3)	10.6	11.8	13.2	14.4	15.6	16.8		
		60	29.2(3.0)	11.5	13.0	14.4	15.6	16.8	18.0		
14	7	20	120(12.3)	3.8	4.3	4.8	5.4	6.0	6.6	SWH 14- 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100
		25	96.3(9.8)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	80.3(8.2)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	68.8(7.0)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	60.2(6.1)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	53.5(5.5)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	48.2(4.9)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	43.8(4.5)	10.6	11.8	13.2	14.4	15.6	16.8		
		60	40.1(4.1)	11.5	13.0	14.4	15.6	16.8	18.0		
		65	37.1(3.8)	12.5	14.0	15.6	17.2	18.8	20.4		

D	d	L	Spring Constant N/mm(kg/mm)	F=Lx19.2%		F=Lx21.6%		F=Lx24%		Part Number	Unit Price
				Fmm	Load N(kgf)	Fmm	Load N(kgf)	Fmm	Load N(kgf)		
16	8	20	157(16.0)	3.8	4.3	4.8	5.4	6.0	6.6	SWH 16- 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100
		25	126(12.8)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	105(10.7)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	89.9(9.2)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	78.6(8.0)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	69.9(7.1)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	62.9(6.4)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	57.2(5.8)	10.6	11.8	13.2	14.4	15.6	16.8		
		60	52.4(5.3)	11.5	13.0	14.4	15.6	16.8	18.0		
		65	48.4(4.9)	12.5	14.0	15.6	17.2	18.8	20.4		
18	9	20	198(20.2)	3.8	4.3	4.8	5.4	6.0	6.6	SWH 18- 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100
		25	159(16.2)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	132(13.5)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	113(11.5)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	99.1(10.1)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	88.1(9.0)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	79.3(8.1)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	72.0(7.3)	10.6	11.8	13.2	14.4	15.6	16.8		
		60	66.0(6.7)	11.5	13.0	14.4	15.6	16.8	18.0		
		65	61.0(6.2)	12.5	14.0	15.6	17.2	18.8	20.4		
20	10	20	245(25.0)	3.8	4.3	4.8	5.4	6.0	6.6	SWH 20- 20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150	20 25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150
		25	196(20.0)	4.8	5.4	6.0	6.7	7.2	7.8		
		30	163(16.7)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	140(14.3)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	123(12.5)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	109(11.1)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	98.0(10.0)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	89.1(9.1)	10.6	11.8	13.2	14.4	15.6	16.8		
		60	81.7(8.3)	11.5	13.0	14.4	15.6	16.8	18.0		
		65	75.4(7.7)	12.5	14.0	15.6	17.2	18.8	20.4		
22	11	25	237(24.2)	4.8	5.4	6.0	6.7	7.2	7.8	SWH 22- 25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150
		30	197(20.1)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	169(17.3)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	148(15.1)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	132(13.4)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	118(12.1)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	108(11.0)	10.6	11.8	13.2	14.4	15.6	16.8		
		60	98.7(10.1)	11.5	13.0	14.4	15.6	16.8	18.0		
		65	91.1(9.3)	12.5	14.0	15.6	17.2	18.8	20.4		
		70	84.6(8.6)	13.4	15.1	16.8	18.4	20.0	21.6		
25	12.5	25	306(31.2)	4.8	5.4	6.0	6.7	7.2	7.8	SWH 25- 25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175	25 30 35 40 45 50 55 60 65 70 75 80 90 100 125 150 175
		30	255(26.0)	5.8	6.5	7.2	8.0	8.6	9.3		
		35	218(22.3)	6.7	7.5	8.4	9.3	10.1	10.9		
		40	191(19.5)	7.7	8.6	9.6	10.5	11.4	12.3		
		45	170(17.3)	8.6	9.7	10.8	11.9	13.0	14.1		
		50	153(15.6)	9.6	10.8	12.0	13.2	14.4	15.6		
		55	139(14.2)	10.6	11.9	13.2	14.4	15.6	16.8		
		60	127(13.0)	11.5	13.0	14.4	15.6	16.8	18.0		
		65	118(12.0)	12.5	14.0	15.6	17.2	18.8	20.4		
		70	109(11.1)	13.4	15.1	16.8	18.4	20.0	21.6		

Ordering Part Number  
Example SWH20-30  
SWB22-60

Material: Oil tempered wires for springs