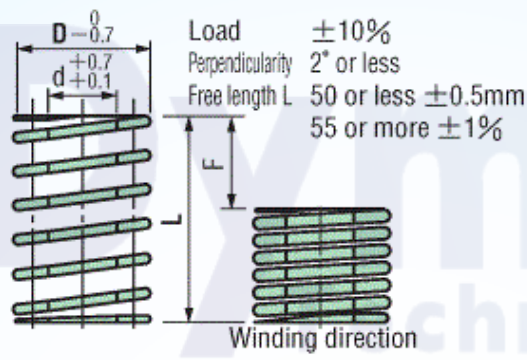


Economy Coil Spring - DE-SWH

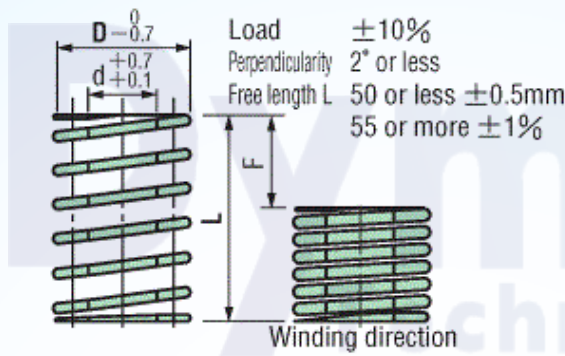


Part Number	D	d	L	Spring Constant		F = L x 19.2%		F = L x 21.6%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000	500000				
DE-SWH6 - 15	6	3	15	38.1 (3.9)	2.9	110	3.2	123	
20			28.5 (2.9)	3.8	{11}	4.3	{13}		
25			22.8 (2.3)	4.8		5.4			
30			19.0 (1.9)	5.8		6.5			
35			16.3 (1.7)	6.7		7.6			
40			14.3 (1.5)	7.7		8.6			
45			12.7 (1.3)	8.6		9.7			
50			11.4 (1.2)	9.6		10.8			
55			10.4 (1.1)	10.6		11.9			
60			9.5 (1.0)	11.5		13			
DE-SWH8 - 10	8	4	10	85.8 (8.8)	1.9	165	4.3	185	
15			57.2 (5.8)	2.9	{17}	3.2	{19}		
20			42.9 (4.4)	3.8		4.3			
25			34.3 (3.5)	4.8		5.4			
30			28.6 (2.9)	5.8		6.5			
35			24.5 (2.5)	6.7		7.5			
40			21.5 (2.2)	7.7		8.6			
45			19.1 (1.9)	8.6		9.7			
50			17.2 (1.8)	9.6		10.8			
55			15.6 (1.6)	10.6		11.8			
60			14.3 (1.5)	11.5		13			
65			13.2 (1.3)	12.5		14			
70			12.3 (1.3)	13.4		15.1			
75	11.4 (1.2)	14.4		16.2					
80	10.7 (1.1)	15.4		17.3					
DE-SWH10 - 10	10	5	10	123.0 (12.5)	1.9	235	2.2	265	
15			81.7 (8.3)	2.9	{24}	3.2	{27}		
20			61.3 (6.3)	3.8		4.3			
25			49.0 (5.0)	4.8		5.4			
30			40.8 (4.2)	5.8		6.5			
35			35.0 (3.6)	6.7		7.5			
40			30.6 (3.1)	7.7		8.6			
45			27.2 (2.8)	8.6		9.7			
50			24.5 (2.5)	9.6		10.8			
55			22.3 (2.3)	10.6		11.8			
60			20.4 (2.1)	11.5		13			
65			18.8 (1.9)	12.5		14			
70			17.5 (1.8)	13.4		15.1			
75	16.3 (1.7)	14.4		16.2					
80	15.3 (1.6)	15.4		17.3					
90	13.6 (1.4)	17.3		19.4					
DE-SWH12 - 15	12	6	15	117 (11.9)	2.9	337	3.2	379	
20			87.7 (8.9)	3.8	{34}	4.3	{38}		
25			70.2 (7.2)	4.8		5.4			
30			58.5 (6.0)	5.8		6.5			
35			50.1 (5.1)	6.7		7.5			
40			43.9 (4.5)	7.7		8.6			
45			39.0 (4.0)	8.6		9.7			
50			35.1 (3.6)	9.6		10.8			
55			31.9 (3.3)	10.6		11.8			
60			29.2 (3.0)	11.5		13			
65			27.0 (2.8)	12.5		14			
70			25.1 (2.6)	13.4		15.1			
75			23.4 (2.4)	14.4		16.2			
80	21.9 (2.2)	15.4		17.3					
90	19.5 (2.0)	17.3		19.4					
DE-SWH14 - 20	14	7	20	120.0 (12.3)	3.8	462	4.3	520	
25			96.3 (9.8)	4.8	{47}	5.4	{53}		
30			80.3 (8.2)	5.8		6.5			
35			68.8 (7.0)	6.7		7.5			
40			60.2 (6.1)	7.7		8.6			
45			53.5 (5.5)	8.6		9.7			
50			48.2 (4.9)	9.6		10.8			
55			43.8 (4.5)	10.6		11.8			
60			40.1 (4.1)	11.5		13			
65			37.1 (3.8)	12.5		14			
70			34.4 (3.5)	13.4		15.1			
75			32.1 (3.3)	14.4		16.2			
80			30.1 (3.1)	15.4		17.3			
90	26.8 (2.7)	17.3		19.4					
100	24.1 (2.5)	19.2		21.6					
DE-SWH16 - 20	16	8	20	157.0 (16.0)	3.8	604	4.3	680	
25			126.0 (12.8)	4.8	{62}	5.4	{69}		
30			105.0 (10.7)	5.8		6.5			
35			89.9 (9.2)	6.7		7.5			
40			78.6 (8.0)	7.7		8.6			
45			69.9 (7.1)	8.6		9.7			
50			62.9 (6.4)	9.6		10.8			
55			57.2 (5.8)	10.6		11.8			
60			52.4 (5.3)	11.5		13			
65			48.4 (4.9)	12.5		14			
70			44.9 (4.6)	13.4		15.1			
75			41.9 (4.3)	14.4		16.2			
80			39.3 (4.0)	15.4		17.3			
90	35.0 (3.6)	17.3		19.4					
100	31.5 (3.2)	19.2		21.6					

Part Number	D	d	L	Spring Constant		F = L x 19.2%		F = L x 21.6%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000	500000				
DE-SWH18 - 20	18	9	20	198.0 (20.2)	3.8	761	4.3	856	
25			159.0 (16.2)	4.8	{78}	5.4	{87}		
30			132.0 (13.5)	5.8		6.5			
35			113.0 (11.5)	6.7		7.5			
40			99.1 (10.1)	7.7		8.6			
45			88.1 (9.0)	8.6		9.7			
50			79.3 (8.1)	9.6		10.8			
55			72.0 (7.3)	10.6		11.8			
60			66.0 (6.7)	11.5		13			
65			61.0 (6.2)	12.5		14			
70			56.6 (5.8)	13.4		15.1			
75			52.8 (5.4)	14.4		16.2			
80			49.5 (5.1)	15.4		17.3			
90	44.0 (4.5)	17.3		19.4					
100	39.6 (4.0)	19.2		21.6					
DE-SWH20 - 20	20	10	20	245.0 (25.0)	3.8	941	4.3	1058	
25			196.0 (20.0)	4.8	{96}	5.4	{108}		
30			163.0 (16.7)	5.8		6.5			
35			140.0 (14.3)	6.7		7.5			
40			123.0 (12.5)	7.7		8.6			
45			109.0 (11.1)	8.6		9.7			
50			98.0 (10.0)	9.6		10.8			
55			89.1 (9.1)	10.6		11.8			
60			81.7 (8.3)	11.5		13			
65			75.4 (7.7)	12.5		14			
70			70.0 (7.1)	13.4		15.1			
75			65.3 (6.7)	14.4		16.2			
80			61.3 (6.2)	15.4		17.3			
90	54.4 (5.6)	17.3		19.4					
100	49.0 (5.0)	19.2		21.6					
125	39.2 (4.0)	24		27					
150	32.7 (3.3)	28.8		32.4					
DE-SWH22 - 25	22	11	25	237.0 (24.2)	4.8	1137	5.4	1279	
30			197.0 (20.1)	5.8	{116}	6.5	{130}		
35			169.0 (17.3)	6.7		7.6			
40			148.0 (15.1)	7.7		8.6			
45			132.0 (13.4)	8.6		9.7			
50			118.0 (12.1)	9.6		10.8			
55			108.0 (11.0)	10.6		11.9			
60			98.7 (10.1)	11.5		13			
65			91.1 (9.3)	12.5		14			
70			84.6 (8.6)	13.4		15.1			
75			78.9 (8.1)	14.4		16.2			
80			74.0 (7.5)	15.4		17.3			
90			65.8 (6.7)	17.3		19.4			
100	59.2 (6.0)	19.2		21.6					
125	47.4 (4.8)	24		27					
150	39.5 (4.0)	28.8		32.4					
DE-SWH25 - 25	25	12.5	25	306.0 (31.2)	4.8	1466	5.4	1650	
30			255.0 (26.0)	5.8	{150}	6.5	{168}		
35			218.0 (22.3)	6.7		7.6			
40			191.0 (19.5)	7.7		8.6			
45			170.0 (17.3)	8.6		9.7			
50			153.0 (15.6)	9.6		10.8			
55			139.0 (14.2)	10.6		11.9			
60			127.0 (13.0)	11.5		13			
65			118.0 (12.0)	12.5		14			
70			109.0 (11.1)	13.4		15.1			
75			102.0 (10.4)	14.4		16.2			
80			95.5 (9.7)	15.4		17.3			
90			84.9 (8.7)	17.3		19.4			
100	76.4 (7.8)	19.2		21.6					
125	61.1 (6.2)	24		27					
150	50.9 (5.2)	28.8		32.4					
175	43.6 (4.5)	33.6		37.8					
E-SWH27 - 25	27	13.5	25	358 (36.5)	4.8	1717	5.4	1931	
30			298.0 (30.4)	5.8	{175}	6.5	{197}		
35			255.0 (26.1)	6.7		7.6			
40			224.0 (22.8)	7.7		8.6			
45			199.0 (20.3)	8.6		9.7			
50			179.0 (18.2)	9.6		10.8			
55			163.0 (16.6)	10.6		11.9			
60			149.0 (15.2)	11.5		13			
65			138.0 (14.0)	12.5		14			
70			128.0 (13.0)	13.4		15.1			
75			119.0 (12.2)	14.4		16.2			
80			112.0 (11.4)	15.4		17.3			
90			99.4 (10.1)	17.3		19.4			
100	89.4 (9.10)	19.2		21.6					
125	71.5 (7.30)	24		27					
150	59.6 (6.10)	28.8		32.4					
175	51.1 (5.20)	33.6		37.8					



Economy Coil Spring - DE-SWH



Part Number	D	d	L	Spring Constant		F = L x 19.2%		F = L x 21.6%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000	500000				
DE-SWH30 - 25	30	15	25	441.0 (45.0)	4.8	2117	5.4	2381	
30			368.0 (37.5)	5.8	(216)	6.5	(243)		
35			315.0 (32.1)	6.7		7.6			
40			276.0 (28.1)	7.7		8.6			
45			245.0 (25.0)	8.6		9.7			
50			221.0 (22.5)	9.6		10.8			
55			200.0 (20.4)	10.6		11.9			
60			184.0 (18.7)	11.5		13			
65			170.0 (17.3)	12.5		14			
70			158.0 (16.1)	13.4		15.1			
75			147.0 (15.0)	14.4		16.2			
80			138.0 (14.1)	15.4		17.3			
90			123.0 (12.5)	17.3		19.4			
100			110.0 (11.2)	19.2		21.6			
125			88.2 (9.0)	24		27			
150	73.5 (7.5)	28.8		32.4					
175	63.0 (6.4)	33.6		37.8					
200	55.1 (5.6)	38.4		43.2					
DE-SWH35 - 40	35	17.5	40	375.0 (38.2)	7.7	2878	8.6	3237	
45			333.0 (34.0)	8.6	(293)	9.7	(330)		
50			300.0 (30.6)	9.6		10.8			
55			273.0 (27.8)	10.6		11.9			
60			250.0 (25.5)	11.5		13			
65			231.0 (23.5)	12.5		14			
70			214.0 (21.8)	13.4		15.1			
75			200.0 (20.4)	14.4		16.2			
80			187.0 (19.1)	15.4		17.3			
90			167.0 (17.0)	17.3		19.4			
100			150.0 (15.3)	19.2		21.6			
125			120.0 (12.2)	24		27			
150			99.9 (10.2)	28.8		32.4			
175			85.6 (8.7)	33.6		37.8			
200			74.9 (7.6)	38.4		43.2			
DE-SWH35 - 40	40	20	40	490.0 (50.0)	7.7	3763	8.6	4234	
45			436.0 (44.4)	8.6	(384)	9.7	(432)		
50			392.0 (40.0)	9.6		10.8			
55			356.0 (36.3)	10.6		11.9			
60			327.0 (33.3)	11.5		13			
65			302.0 (30.7)	12.5		14			
70			280.0 (28.6)	13.4		15.1			
75			261.0 (26.6)	14.4		16.2			
80			245.0 (25.0)	15.4		17.3			
90			218.0 (22.2)	17.3		19.4			
100			196.0 (20.0)	19.2		21.6			
125			157.0 (16.0)	24		27			
150			131.0 (13.3)	28.8		32.4			
175			112.0 (11.4)	33.6		37.8			
200			98.0 (10.0)	38.4		43.2			
225	87.1 (8.9)	43.2		48.6					
250	78.4 (8.0)	48		54					
275	71.3 (7.3)	52.8		59.4					
300	65.3 (6.7)	57.6		64.8					

Part Number	D	d	L	Spring Constant		F = L x 19.2%		F = L x 21.6%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000	500000				
DE-SWH50 - 50	50	25	50	613.0 (62.5)	9.6	5880	10.8	6615	
55			557.0 (56.8)	10.6	(600)	11.9	(675)		
60			510.0 (52.0)	11.5		13			
65			471.0 (48.0)	12.5		14			
70			438.0 (44.6)	13.4		15.1			
75			408.0 (41.6)	14.4		16.2			
80			383.0 (39.0)	15.4		17.3			
90			340.0 (34.7)	17.3		19.4			
100			306.0 (31.2)	19.2		21.6			
125			245.0 (25.0)	24		27			
150			204.0 (20.8)	28.8		32.4			
175			175.0 (17.8)	33.6		37.8			
200			153.0 (15.6)	38.4		43.2			
225			136.0 (13.9)	43.2		48.6			
250			123.0 (12.5)	48		54			
275	111.0 (11.4)	52.8		59.4					
300	102.0 (10.4)	57.6		64.8					
350	87.5 (8.9)	67.2		75.6					
DE-SWH60 - 60	60	30	60	735.0 (74.9)	11.5	8467	13	9526	
70			630.0 (64.2)	13.4	(863)	15.1	(971)		
80			551.0 (56.2)	15.4		17.3			
90			490.0 (50.0)	17.3		19.4			
100			441.0 (45.0)	19.2		21.6			
125			353.0 (36.0)	24		27			
150			294.0 (30.0)	28.8		32.4			
175			252.0 (25.7)	33.6		37.8			
200			221.0 (22.5)	38.4		43.2			
225			196.0 (20.0)	43.2		48.6			
250			176.0 (18.0)	48		54			
275			160.0 (16.4)	52.8		59.4			
300			147.0 (15.0)	57.6		64.8			
350			126.0 (12.8)	67.2		75.6			
DE-SWH70 - 70			70	38.5	70	747 (76.2)	13.4	10046	15.1
80	854 (66.7)	15.4			(1024)	17.3	(1152)		
90	581 (59.3)	17.3				19.4			
100	523 (53.4)	19.2				21.6			
125	419 (42.7)	24				27			
150	349 (35.6)	28.8				32.4			
175	299 (30.5)	33.6				37.8			
200	262 (26.7)	38.4				43.2			
250	209 (21.3)	48				54			
300	174 (17.8)	57.6				64.8			
350	149 (15.2)	67.2		75.6					

● Load calculation method: Load = Spring constant × Deflection

(SI units) $N = N/mm \times Fmm$
 $kgf = kgf/mm \times Fmm$
 $(kgf = N \times 0.101972)$

ORDERING GUIDE



DE-SWH20-30

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