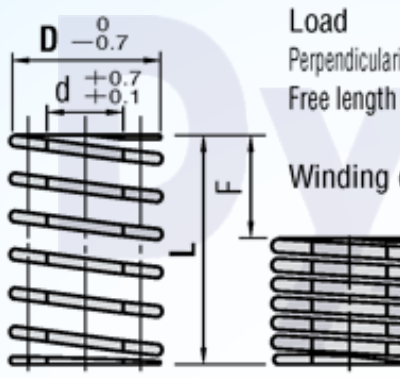
Economy Coil Spring - DE-SWG



Load ±10%
Perpendicularity 2° or less
Free length L 50 or less ±0.5mm
55 or more ±1%
Winding direction: right

Part Number Type D -L	D	d	L	Spring Constant N/mm {kgf/mm}	F = L x 16% Operation Count 1000000 Fmm	F = L x 16% Operation Count 1000000 Load N{Kgf}	F = L x 18% 500000 Fmm	F = L x 18% 500000 Load N{Kgf}	F = L x 20% 300000 Fmm	F = L x 20% 300000 Load N{Kgf}
DE - SWG20 - 35	20	10	35	294{30.0}	5.6	1648 {168}	6.3	1853 {189}	7	2059 {210}
40			40	257{26.3}	6.4		7.2		8	
45			45	229{23.3}	7.2		8.1		9	
50			50	206{21.0}	8		9		10	
55			55	187{19.1}	8.8		9.9		11	
60			60	172{17.5}	9.6		10.8		12	
65			65	158{16.2}	10.4		11.7		13	
70			70	147{15.0}	11.2		12.6		14	
75			75	137{14.0}	12		13.5		15	
80			80	129{13.1}	12.8		14.4		16	
90			90	114{11.7}	14.4		16.2		18	
DE-SWG22 - 35	22	11	35	336{34.3}	5.6	1883 {192}	6.3	2118 {216}	7	2354 {240}
40			40	294{30.0}	6.4		7.2		8	
45			45	262{26.7}	7.2		8.1		9	
50			50	235{24.0}	8		9		10	
55			55	214{21.8}	8.8		9.9		11	
60			60	196{20.0}	9.6		10.8		12	
65			65	181{18.5}	10.4		11.7		13	
70			70	168{17.1}	11.2		12.6		14	
75			75	157{16.0}	12		13.5		15	
80			80	147{15.0}	12.8		14.4		16	
90			90	131{13.3}	14.4		16.2		18	
DE-SWG25 - 25	25	12.5	25	608{62.0}	4	2432 {248}	4.5	2736 {279}	5	3040 {310}
30			30	507{51.7}	4.8		5.4		6	
35			35	434{44.3}	5.6		6.3		7	
40			40	380{38.8}	6.4		7.2		8	
45			45	338{34.4}	7.2		8.1		9	
50			50	304{31.0}	8		9		10	
55			55	276{28.2}	8.8		9.9		11	
60			60	253{25.8}	9.6		10.8		12	
65			65	234{23.8}	10.4		11.7		13	
70			70	217{22.1}	11.2		12.6		14	
75			75	203{20.7}	12		13.5		15	
80			80	190{19.4}	12.8		14.4		16	
90			90	169{17.2}	14.4		16.2		18	
100			100	152{15.5}	16		18		20	
125			125	121.6{12.4}	20		22.5		25	
DE-SWG27 - 25	27	13.5	25	726{74.0}	4	2903 {296}	4.5	3266 {333}	5	3628 {370}
30			30	605{61.7}	4.8		5.4		6	
35			35	518{52.9}	5.6		6.3		7	
40			40	454{46.3}	6.4		7.2		8	
45			45	403{41.1}	7.2		8.1		9	
50			50	363{37.0}	8		9		10	
55			55	330{33.6}	8.8		9.9		11	
60			60	302{30.8}	9.6		10.8		12	
65			65	279{28.5}	10.4		11.7		13	
70			70	259{26.4}	11.2		12.6		14	
75			75	242{24.7}	12		13.5		15	
80			80	227{23.1}	12.8		14.4		16	
90			90	202{20.6}	14.4		16.2		18	
100			100	181{18.5}	16		18		20	
125			125	145{14.8}	20		22.5		25	
150			150	121{12.3}	24		27		30	
30	30	15	30	785{80.0}	4.8	3766 {384}	5.4	4236 {432}	6	4707 {480}
35			35	672{68.6}	5.6		6.3		7	
40			40	588{60.0}	6.4		7.2		8	
45			45	523{53.3}	7.2		8.1		9	
50			50	471{48.0}	8		9		10	
55			55	428{43.6}	8.8		9.9		11	
60			60	392{40.0}	9.6		10.8		12	
65			65	362{36.9}	10.4		11.7		13	
70			70	336{34.3}	11.2		12.6		14	
75			75	314{32.0}	12		13.5		15	
80			80	294{30.0}	12.8		14.4		16	
90			90	262{26.7}	14.4		16.2		18	
100			100	235{24.0}	16		18		20	
125			125	188{19.2}	20		22.5		25	
150			150	157{16.0}	24		27		30	
175			175	134{13.7}	28		31.5		35	

Part Number Type D -L	D	d	L	Spring Constant N/mm {kgf/mm}	F = L x 16% Operation Count 1000000 Fmm	F = L x 16% Operation Count 1000000 Load N{Kgf}	F = L x 18% 500000 Fmm	F = L x 18% 500000 Load N{Kgf}	F = L x 20% 300000 Fmm	F = L x 20% 300000 Load N{Kgf}
DE-SWG35-35	35	17.5	35	883{90.0}	5.6	4943 {504}	6.3	5560 {567}	7	6178 {630}
40			40	772{78.8}	6.4		7.2		8	
45			45	686{70.0}	7.2		8.1		9	
50			50	618{63.0}	8		9		10	
55			55	562{57.3}	8.8		9.9		11	
60			60	515{52.5}	9.6		10.8		12	
65			65	475{48.5}	10.4		11.7		13	
70			70	441{45.0}	11.2		12.6		14	
75			75	412{42.0}	12		13.5		15	
80			80	386{39.4}	12.8		14.4		16	
90			90	343{35.0}	14.4		16.2		18	
100			100	309{31.5}	16		18		20	
125			125	247{25.2}	20		22.5		25	
150			150	206{21.0}	24		27		30	
175			175	177{18.0}	28		31.5		35	
200			200	154{15.8}	32		36		40	
DE-SWG40-35	40	20	35	1149{117.1}	5.6	6433 {656}	6.3	7237 {738}	7	8041 {820}
40			40	1005{102.5}	6.4		7.2		8	
45			45	893{91.1}	7.2		8.1		9	
50			50	804{82.0}	8		9		10	
55			55	731{74.5}	8.8		9.9		11	
60			60	670{68.3}	9.6		10.8		12	
65			65	619{63.1}	10.4		11.7		13	
70			70	574{58.6}	11.2		12.6		14	
75			75	536{54.7}	12		13.5		15	
80			80	503{51.3}	12.8		14.4		16	
90			90	447{45.6}	14.4		16.2		18	
100			100	402{41.0}	16		18		20	
125			125	322{32.8}	20		22.5		25	
150			150	268{27.3}	24		27		30	
175			175	230{23.4}	28		31.5		35	
200			200	201{20.5}	32		36		40	
DE-SWG50-50	50	25	50	1226{125.0}	8	9807 {1000}	9	11032 {1125}	10	12258 {1250}
55			55	1114{113.6}	8.8		9.9		11	
60			60	1022{104.2}	9.6		10.8		12	
65			65	943{96.2}	10.4		11.7		13	
70			70	876{89.3}	11.2		12.6		14	
75			75	817{83.3}	12		13.5		15	
80			80	766{78.1}	12.8		14.4		16	
90			90	681{69.4}	14.4		16.2		18	
100			100	613{62.5}	16		18		20	
125			125	490{50.0}	20		22.5		25	
150			150	409{41.7}	24		27		30	
175			175	350{35.7}	28		31.5		35	
200			200	306{31.3}	32		36		40	

Load calculation method: Load=Spring constant×Deflection

(SI units) N = N/mm×Fmm

kgf = kgf/mm×Fmm

(kgf=N×0.101972)

Features

These springs have approximately 1.1 ~ 1.3 times the load capacity of E-SWB at the same deflection.
They can be used to make the die more compact and reduce the number of springs.

ORDERING GUIDE

Part Number

DE-SWG20 - 80

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