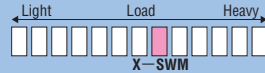
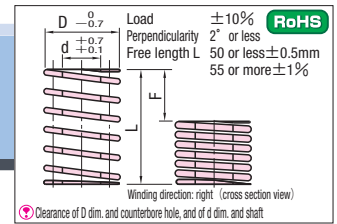


COIL SPRINGS

— MEDIUM LOAD X-SWM —



PRINTED IN RED



D	d	L	Spring constant		F=L×25.6%		F=L×28.8%		Catalogue No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
			1,000,000		500,000		Type D-L		
8	4	10	42.9 (4.37)	2.6	2.9	110 (11)	123 (13)	X—SWM 8—10	
		15	28.6 (2.91)	3.8	4.3			15	
		20	21.5 (2.18)	5.1	5.8			20	
		25	17.2 (1.75)	6.4	7.2			25	
		30	14.3 (1.46)	7.7	8.6			30	
		35	12.2 (1.25)	9.0	10.1			35	
		40	10.7 (1.09)	10.2	11.5			40	
		45	9.5 (0.97)	11.5	13.0			45	
		50	8.6 (0.87)	12.8	14.4			50	
		55	7.8 (0.79)	14.1	15.8			55	
		60	7.1 (0.73)	15.4	17.3			60	
		65	6.6 (0.67)	16.6	18.7			65	
70	6.1 (0.62)	17.9	20.2	70					
75	5.7 (0.58)	19.2	21.6	75					
80	5.4 (0.55)	20.5	23.0	80					

D	d	L	Spring constant		F=L×25.6%		F=L×28.8%		Catalogue No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
			1,000,000		500,000		Type D-L		
16	8	20	78.1 (7.97)	5.1	5.8	400 (41)	450 (46)	X—SWM16—20	
		25	62.5 (6.38)	6.4	7.2			25	
		30	52.1 (5.31)	7.7	8.6			30	
		35	44.7 (4.55)	9.0	10.1			35	
		40	39.1 (3.98)	10.2	11.5			40	
		45	34.7 (3.54)	11.5	13.0			45	
		50	31.3 (3.19)	12.8	14.4			50	
		55	28.4 (2.90)	14.1	15.8			55	
		60	26.0 (2.66)	15.4	17.3			60	
		65	24.0 (2.45)	16.6	18.7			65	
		70	22.3 (2.28)	17.9	20.2			70	
		75	20.8 (2.13)	19.2	21.6			75	
80	19.5 (1.99)	20.5	23.0	80					
90	17.4 (1.77)	23.0	25.9	90					
100	15.6 (1.59)	25.6	28.8	100					

D	d	L	Spring constant		F=L×25.6%		F=L×28.8%		Catalogue No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
			1,000,000		500,000		Type D-L		
25	12.5	25	153.0 (15.6)	6.4	7.2	981 (100)	1103 (113)	X—SWM25—25	
		30	128.0 (13.0)	7.7	8.6			30	
		35	109.0 (11.2)	9.0	10.1			35	
		40	95.7 (9.77)	10.2	11.5			40	
		45	85.1 (8.68)	11.5	13.0			45	
		50	76.6 (7.81)	12.8	14.4			50	
		55	69.6 (7.10)	14.1	15.8			55	
		60	63.8 (6.51)	15.4	17.3			60	
		65	58.9 (6.01)	16.6	18.7			65	
		70	54.7 (5.58)	17.9	20.2			70	
		75	51.0 (5.21)	19.2	21.6			75	
		80	47.9 (4.88)	20.5	23.0			80	
90	42.5 (4.34)	23.0	25.9	90					
100	38.3 (3.91)	25.6	28.8	100					
125	30.6 (3.13)	32.0	36.0	125					
150	25.5 (2.60)	38.4	43.2	150					
175	21.9 (2.23)	44.8	50.4	175					

D	d	L	Spring constant		F=L×25.6%		F=L×28.8%		Catalogue No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
			1,000,000		500,000		Type D-L		
40	20	40	245.0 (25.0)	10.2	11.5	2510 (256)	2824 (288)	X—SWM40—40	
		45	218.0 (22.2)	11.5	13.0			45	
		50	196.0 (20.0)	12.8	14.4			50	
		55	178.0 (18.2)	14.1	15.8			55	
		60	163.0 (16.7)	15.4	17.3			60	
		65	151.0 (15.4)	16.6	18.7			65	
		70	140.0 (14.3)	17.9	20.2			70	
		75	131.0 (13.3)	19.2	21.6			75	
		80	123.0 (12.5)	20.5	23.0			80	
		90	109.0 (11.1)	23.0	25.9			90	
		100	98.1 (10.0)	25.6	28.8			100	
		125	78.5 (8.00)	32.0	36.0			125	
150	65.4 (6.67)	38.4	43.2	150					
175	56.0 (5.71)	44.8	50.4	175					
200	49.0 (5.00)	51.2	57.6	200					
225	43.6 (4.44)	57.6	64.8	225					
250	39.2 (4.00)	64.0	72.0	250					
275	35.7 (3.64)	70.4	79.2	275					
300	32.7 (3.33)	76.8	86.4	300					

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

Order Example **Catalogue No.** X—SWM 20—80

Stock availability
 Red : SGP stock
 Grey : Not available

Delivery **SGP Stock**

● Printed in Red

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

The sizes in grey are not available. If you would like MISUMI to stock any particular size please contact us misumi_pm@misumi.com.sg