

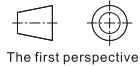
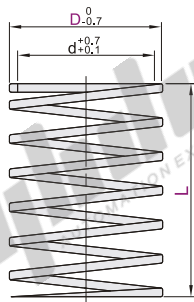
Coil Springs ◀ Extra Heavy Load Spring (Brown)

Code	Type	Material	Maximum Allowable Deflection
YSWB	Extra Heavy Load	Oil-Cooled Tempered Spring Steel	L×20%

□ L Dimensional Tolerance

L	Tol.
50 or Less	±0.5
50 or More	±1.0%

- Load (±10%).
- Perpendicularity (2° or Less).
- Load (N): Spring Constant (N/mm) × Deflection (Fmm)
- Heat resistant temperature is 150 °C.
- 1kgf=9.81N.
- The solid height values are for reference only. There may be some variation between lots.
- The spring color and number of turns may vary depending on the production batch. But the performance of the product meets the standard and does not affect the use.



The first perspective

Part Number			Inner Dia. d	Spring Constant N/mm	a		Usage Method					
Code	D	L			Solid Height Fmm	Load N	0.3 million times F=L×20%	Fmm	Load N	0.5 million times F=L×18%	Fmm	Load N
6	6	15	3	59.0	11.6	3.0	2.7	2.4	177	159	142	
		20		44.3	15.5	4.0	3.6	3.2				
		25		35.4	19.4	5.0	4.5	4.0				
		30		29.5	23.2	6.0	5.4	4.8				
		35		25.3	27.1	7.0	6.3	5.6				
		40		22.1	31.0	8.0	7.2	6.4				
		45		19.7	34.8	9.0	8.1	7.2				
		50		17.7	38.7	10.0	9.0	8.0				
		55		16.1	42.6	11.0	9.9	8.8				
		60		14.8	46.4	12.0	10.8	9.6				
		10		162	7.7	2.0	1.8	1.6				
		15		108	11.6	3.0	2.7	2.4				
		20		80.8	15.9	4.0	3.6	3.2				
		25		64.6	19.4	5.0	4.5	4.0				
		30		53.8	23.2	6.0	5.4	4.8				
		35		46.1	27.1	7.0	6.3	5.6				
8	8	40	4	40.4	31.0	8.0	7.2	6.4	323	291	258	
		45		35.9	34.8	9.0	8.1	7.2				
		50		32.3	38.7	10.0	9.0	8.0				
		55		29.4	42.6	11.0	9.9	8.8				
		60		26.9	46.4	12.0	10.8	9.6				
		65		24.7	50.2	13.0	11.7	10.4				
		70		23.2	54.1	14.0	12.6	11.2				
		75		21.6	58.1	15.0	13.5	12.0				
		80		20.1	61.9	16.0	14.4	12.7				
		10		221	7.6	2.0	1.8	1.6				
		15		147	11.5	3.0	2.7	2.4				
		20		110	15.5	4.0	3.6	3.2				
		25		88.2	19.4	5.0	4.5	4.0				
		30		73.5	23.2	6.0	5.4	4.8				
		35		63.0	27.1	7.0	6.3	5.6				
		YSWB		YSWB	40	5	55.1	31.0				8.0
45	49.0		34.8		9.0		8.1	7.2				
50	44.1		38.7		10.0		9.0	8.0				
55	40.1		42.6		11.0		9.9	8.8				
60	36.8		46.4		12.0		10.8	9.6				
65	33.9		50.3		13.0		11.7	10.4				
70	31.5		54.2		14.0		12.6	11.2				
75	29.4		58.1		15.0		13.5	12.0				
80	27.6		61.9		16.0		14.4	12.8				
90	24.4		69.6		18.0		16.2	14.4				
15	190		11.5		3.0		2.7	2.4				
20	142		15.5		4.0		3.6	3.2				
25	114		19.4		5.0		4.5	4.0				
30	94.8		23.2		6.0		5.4	4.8				
35	81.3		27.1		7.0		6.3	5.6				
12	12		40		6		71.1	31.0	8.0	7.2	6.4	569
		45	63.2	34.8		9.0	8.1	7.2				
		50	56.9	38.7		10.0	9.0	8.0				
		55	51.7	42.6		11.0	9.9	8.8				
		60	47.4	46.4		12.0	10.8	9.6				
		65	43.8	50.3		13.0	11.7	10.4				
		70	40.6	54.2		14.0	12.6	11.2				
		75	37.9	58.1		15.0	13.5	12.0				
		80	35.6	61.9		16.0	14.4	12.8				
		20	184	15.4		4.0	3.6	3.2				
		25	147	19.4		5.0	4.5	4.0				
		30	123	23.2		6.0	5.4	4.8				
		35	105	27.1		7.0	6.3	5.6				
		40	92.0	31.0		8.0	7.2	6.4				
		45	81.8	34.8		9.0	8.1	7.2				
		14	14	50		7	81.8	34.8	9.0	8.1	7.2	
55	73.5			31.0	8.0		7.2	6.4				
60	65.0			27.1	7.0		6.3	5.6				
65	56.9			23.2	6.0		5.4	4.8				
70	48.5			19.4	5.0		4.5	4.0				

Part Number			Inner Dia. d	Spring Constant N/mm	a		Usage Method					
Code	D	L			Solid Height	0.3 million times F=L×20%	Load N	Fmm	0.5 million times F=L×18%	Load N	Fmm	1 million times F=L×16%
14		50		73.6	38.7	10.0		9.0		8.0		
		55		66.9	42.6	11.0		9.9		8.8		
		60		61.3	46.4	12.0		10.8		9.6		
		65		56.6	50.3	13.0		11.7		10.4		
		70	7	52.6	54.2	14.0	736	12.6	662	11.2	589	
		75		49.1	58.1	15.0		13.5		12.0		
		80		46.0	61.9	16.0		14.4		12.8		
		90		40.9	69.7	18.0		16.2		14.4		
		100		36.7	77.4	20.0		18.0		16.0		
		20		245	15.4	4.0		3.6		3.2		
		25		196	19.4	5.0		4.5		4.0		
		30		163	23.2	6.0		5.4		4.8		
		35		140	27.1	7.0		6.3		5.6		
		40		123	31.0	8.0		7.2		6.4		
		45		109	34.8	9.0		8.1		7.2		
	16		50		98.0	38.7	10.0		9.0		8.0	
		55	8	89.1	42.6	11.0	980	9.9	882	8.8	784	
		60		81.7	46.4	12.0		10.8		9.6		
		65		75.4	50.3	13.0		11.7		10.4		
		70		70.0	54.2	14.0		12.6		11.2		
		75		65.3	58.1	15.0		13.5		12.0		
		80		61.3	61.9	16.0		14.4		12.8		
		90		54.4	69.7	18.0		16.2		14.4		
		100		49.0	77.4	20.0		18.0		16.0		
YSWB			20		306	15.4	4.0		3.6		3.2	
		25		245	19.4	5.0		4.5		4.0		
		30		204	23.2	6.0		5.4		4.8		
		35		175	27.1	7.0		6.3		5.6		
		40		153	31.0	8.0		7.2		6.4		
		45		136	34.8	9.0		8.1		7.2		
		50		123	38.7	10.0		9.0		8.0		
		55	9	111	42.6	11.0	1225	9.9	1103	8.8	980	
		60		102	46.4	12.0		10.8		9.6		
		65		94.2	50.3	13.0		11.7		10.4		
		70		87.5	54.2	14.0		12.6		11.2		
		75		81.7	58.1	15.0		13.5		12.0		
		80		76.6	61.9	16.0		14.4		12.8		
		90		68.1	69.7	18.0		16.2		14.4		
		100		61.3	77.4	20.0		18.0		16.0		
	20		25		314	19.4	5.0		4.5		4.0	
		30		261	23.2	6.0		5.4		4.8		
		35		224	27.1	7.0		6.3		5.6		
		40		196	31.0	8.0		7.2		6.4		
		45		174	34.8	9.0		8.1		7.2		
		50		157	38.7	10.0		9.0		8.0		
		55	10	143	42.6	11.0	1568	9.9	1411	8.8	1254	
		60		131	46.4	12.0		10.8		9.6		
		65		121	50.3	13.0		11.7		10.4		
		70		112	54.2	14.0		12.6		11.2		
		75		105	58.1	15.0		13.5		12.0		
		80		98.0	61.9	16.0		14.4		12.8		
		90		87.1	69.7	18.0		16.2		14.4		
		100		78.4	77.4	20.0		18.0		16.0		

Extra Heavy Load Spring (Brown) ▶

Coil Springs

Part Number			Inner Dia. d	Spring Constant N/mm	a	Usage Method				
Code	D	L				0.3 million times F=L×20%	0.5 million times F=L×18%	1 million times F=L×16%		
					Solid Height	Fmm	Load N	Fmm	Load N	Fmm
	25			481	19.0	5.0		4.5		4.0
	30			400	22.8	6.0		5.4		4.8
	35			343	26.6	7.0		6.3		5.6
	40			300	30.4	8.0		7.2		6.4
	45			267	34.2	9.0		8.1		7.2
	50			240	38.0	10.0		9.0		8.0
	55			218	41.8	11.0		9.9		8.8
25	60	12.5		200	45.6	12.0	2403	10.8	2162	9.6
	65			185	49.4	13.0		11.7		10.4
	70			172	53.2	14.0		12.6		11.2
	75			160	57.0	15.0		13.5		12.0
	80			150	60.8	16.0		14.4		12.8
	90			133	68.4	18.0		16.2		14.4
	100			120	76.0	20.0		18.0		16.0
	25			706	19.0	5.0		4.5		4.0
	30			588	22.8	6.0		5.4		4.8
	35			504	26.6	7.0		6.3		5.6
	40			441	30.4	8.0		7.2		6.4
	45			392	34.2	9.0		8.1		7.2
	50			353	38.0	10.0		9.0		8.0
YSWB	55			321	41.8	11.0		9.9		8.8
30	60	15		294	45.6	12.0	3530	10.8	3177	9.6
	65			272	49.4	13.0		11.7		10.4
	70			252	53.2	14.0		12.6		11.2
	75			235	57.0	15.0		13.5		12.0
	80			221	60.8	16.0		14.4		12.8
	90			196	68.4	18.0		16.2		14.4
	100			177	76.0	20.0		18.0		16.0
	40			600	31.0	8.0		7.2		6.4
	45			534	34.8	9.0		8.1		7.2
	50			480	38.7	10.0		9.0		8.0
	55			437	42.6	11.0		9.9		8.8
	60			400	46.4	12.0		10.8		9.6
35	65	17.5		369	50.3	13.0	4802	11.7	4322	10.4
	70			343	54.2	14.0		12.6		11.2
	75			320	58.1	15.0		13.5		12.0
	80			300	61.9	16.0		14.4		12.8
	90			267	69.7	18.0		16.2		14.4
	100			240	77.4	20.0		18.0		16.0
	40			784	31.0	8.0		7.2		6.4
	50			627	38.7	10.0		9.0		8.0
	60			523	46.4	12.0		10.8		9.6
40	70	20		448	54.2	14.0	6272	12.6	5645	11.2
	80			392	61.9	16.0		14.4		12.8
	90			348	69.7	18.0		16.2		14.4
	100			314	77.4	20.0		18.0		16.0



Please order as shown

Part Number				d
Code	D	L		
YSWB	60	15	20	3

YSWB-D6-L15



Discount price

Per	1~19	20~
Price	100%	Additional quotation



Delivery

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