

Rectangular Spring ▶ Super Heavy Load Spring (Brown)



Please order according to the diagram

①-④ Select the type and parameters in the order of for ordering.

Model (① Code)

BUBB

② D

D6

③ L

L15



Discounted Price

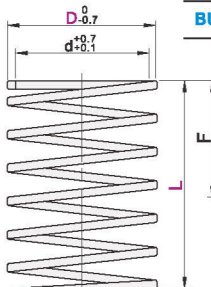
Quantity 1-9 10~

Price 100% Separate Quotation

Price Excluding Tax (Yen)



CAD 2D 3D



Code	Type		Material		Maximum Compression
	Super Heavy Load Type	Economy type	International	Equivalent	

BUBB	Super Heavy Load Type	Economy type	60Si2CrA	SWOSC-V	L×20%
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④ L Dimension Tolerance

L Tolerance

50 or higher ±0.5

50 Below ±1.0%

① Load (+10%)

② Straightness Angle (below 2°)

③ Load (N) = Spring Constant (N/mm) x Compression

④ Heat Resistance Temperature: 150°C

⑤ 1kgf=9.81 N

⑥ Compressed Length is for reference, slight variations may occur during manufacturing.

⑦ Spring color and number of coils may vary between production batches, but product performance meets standards and does not affect use!

Model		Wire Diameter	Spring Constant	a	Usage Method							
Code	D	L	d	N/mm	Compressed Length		300,000 times F=L×20%		500,000 times F=L×16%		1,000,000 times F=L×16%	
					Fmm	Load N	Fmm	Load N	Fmm	Load N	Fmm	Load N
BUBB	6	15*	3	59.0	11.6	3.0	2.7	2.4				
		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				
	8	55*	4	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				
	10	40		40.4	31.0	8.0	7.2	6.4				
		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				
		90*		17.9	69.7	18.0	16.2	14.4				
BUBB	12	100*	5	16.1	19.4	20.0	18.0	16.0				
		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				
		40		55.1	31.0	8.0	7.2	6.4				
	14	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				
	16	90*		24.4	69.7	18.0	16.2	14.4				
		100*		22.0	73.5	20.0	18.0	16.0				
BUBB	18	15*	9	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				
		40		71.1	31.0	8.0	7.2	6.4				
		45		63.2	34.8	9.0	8.1	7.2				
		50		56.9	38.7	10.0	9.0	8.0				
	20	55	10	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				
		90*		32.8	65.7	17.0	15.2	13.6				
		100*		30.4	69.5	18.0	16.0	14.4				
BUBB	22	15*	11	184	15.4	4.0	3.6	3.2				
		20*		147	19.4	5.0	4.5	4.0				
		25		123	23.2	6.0	5.4	4.8				
		30		105	27.1	7.0	6.3	5.6				
		35		92.0	31.0	8.0	7.2	6.4				
		40		81.8	34.8	9.0	8.1	7.2				
		45										
	24	50	12	184	15.4	4.0	3.6	3.2				
		55		147	19.4	5.0	4.5	4.0				
		60		123	23.2	6.0	5.4	4.8				
		65		105	27.1	7.0	6.3	5.6				
		70		92.0	31.0	8.0	7.2	6.4				
		75		81.8	34.8	9.0	8.1	7.2				
		80										
		85										

① Items marked with "*" are applicable to the Economy Series only.

Rectangular Spring ▶ Super Heavy Load Spring (Brown)

Model		Inner Diameter	Spring Constant	a	Usage Method					
Code	D				300,000 times F=Lx20%	500,000 times F=Lx18%	1,000,000 times F=Lx16%			
	L	d	N/mm	Compressed Length	F/mm	Load N	F/mm	Load N	F/mm	Load N
BUBB	22	11	191	38.7	10.0		9.0		8.0	
	55		174	42.6	11.0		9.9		8.8	
	60		159	46.4	12.0		10.8		9.6	
	65		147	50.3	13.0		11.7		10.4	
	70		137	54.2	14.0		12.6		11.2	
	75		127	58.1	15.0	1912	13.5	1721	12.0	1530
	80		120	61.9	16.0		14.4		12.8	
	90		106	69.7	18.0		16.2		14.4	
	100		95.6	77.4	20.0		18.0		16.0	
	125		76.5	96.8	25.0		22.5		20.0	
	150		63.7	116.1	30.0		27.0		24.0	
	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	
BUBB	25	12.5	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	
	60		200	45.6	12.0		10.8		9.6	
	65		185	49.4	13.0	2403	11.7	2162	10.4	1922
	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	
	125		96.1	95.0	25.0		22.5		20.0	
	150		80.1	114.0	30.0		27.0		24.0	
	175		68.6	133.0	35.0		31.5		28.0	
	200		60.1	152.0	40.0		36.0		32.0	
	25		569	19.0	5.0		4.5		4.0	
	30		474	22.8	6.0		5.4		4.8	
BUBB	35		406	26.6	7.0		6.3		5.6	
	40		355	30.4	8.0		7.2		6.4	
	45		316	34.2	9.0		8.1		7.2	
	50		284	38.0	10.0		9.0		8.0	
	55		259	41.8	11.0		9.9		8.8	
	60		237	45.6	12.0		10.8		9.6	
	65		219	49.4	13.0	2844	11.7	2560	10.4	2275
	70		203	53.2	14.0		12.6		11.2	
	75		190	57.0	15.0		13.5		12.0	
	80		178	60.8	16.0		14.4		12.8	
	90		158	68.4	18.0		16.2		14.4	
	100		142	76.0	20.0		18.0		16.0	
	125		114	95.0	25.0		22.5		20.0	
	150		94.8	114.0	30.0		27.0		24.0	
	175		81.3	133.0	35.0		31.5		28.0	
	200		71.1	152.0	40.0		36.0		32.0	
BUBB	27	13.5	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	
	55		321	41.8	11.0		9.9		8.8	
	60		294	45.6	12.0		10.8		9.6	
	65		272	49.4	13.0	3530	11.7	3177	10.4	2824
	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	
	125		141	95.0	25.0		22.5		20.0	
	150		118	114.0	30.0		27.0		24.0	
	175		101	133.0	35.0		31.5		28.0	
	200		88.3	152.0	40.0		36.0		32.0	

Model		Inner Diameter	Spring Constant	a	Usage Method					
Code	D				300,000 times F=Lx20%	500,000 times F=Lx18%	1,000,000 times F=Lx16%			
	L	d	N/mm	Compressed Length	F/mm	Load N	F/mm	Load N	F/mm	Load N
BUBB	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	
	65		369	50.3	13.0		11.7		10.4	
	70		343	54.2	14.0		12.6		11.2	
	75	17.5	320	58.1	15.0	4802	13.5	4322	12.0	3842
	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	
	125		192	96.8	25.0		22.5		20.0	
	150		160	116.1	30.0		27.0		24.0	
	175		137	135.5	35.0		31.5		28.0	
	200		120	154.8	40.0		36.0		32.0	
BUBB	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	
	70		448	54.2	14.0		12.6		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	
	125	20	251	96.8	25.0	6272	22.5	5645	20.0	5018
	150		209	116.1	30.0		27.0		24.0	
	175		179	135.5	35.0		31.5		28.0	
	200		157	154.8	40.0		36.0		32.0	
	225		139	174.1	45.0		40.5		36.0	
	250		125	193.5	50.0		45.0		40.0	
	275		114	212.8	55.0		49.5		44.0	
	300		105	232.1	60.0		54.0		48.0	
BUBB	50		980	38.7	10.0		9.0		8.0	
	60		817	46.4	12.0		10.8		9.6	
	70		700	54.2	14.0		12.6		11.2	
	80		613	61.9	16.0		14.4		12.8	
	90		544	69.7	18.0		16.2		14.4	
	100		490	77.4	20.0		18.0		16.0	
	125		392	96.8	25.0		22.5		20.0	
	150	25	327	116.1	30.0	9800	27.0	8820	24.0	7840
	175		280	135.5	35.0		31.5		28.0	
	200		245	154.8	40.0		36.0		32.0	
	225		218	174.1	45.0		40.5		36.0	
	250		196	193.5	50.0		45.0		40.0	
	275		178	212.8	55.0		49.5		44.0	
	300		163	232.2	60.0		54.0		48.0	
	350		140	270.8	70.0		63.0		56.0	
BUBB	60		1176	46.4	12.0		10.8		9.6	
	70		1008	53.2	14.0		12.6		11.2	
	80		882	61.9	16.0		14.4		12.8	
	90		784	69.7	18.0		16.2		14.4	
	100		706	77.4	20.0		18.0		16.0	
	125		564	96.8	25.0		22.5		20.0	
	150	30	470	116.1	30.0	14112	27.0	12701	24.0	11290
	175		403	135.5	35.0		31.5		28.0	
	200		353	154.8	40.0		36.0		32.0	
	225		314	174.1	45.0		40.5		36.0	
	250		282	193.5	50.0		45.0		40.0	
	275		257	212.8	55.0		49.5		44.0	
	300		235	232.1	60.0		54.0		48.0	
	350		202	270.8	70.0		63.0		56.0	
	70		1219	54.1	14.0		12.6		11.2	
BUBB	80		1067	61.8	16.0		14.4		12.8	
	90		948	69.6	18.0		16.2		14.4	
	100		853	77.3	20.0		18.0		16.0	
	125		683	96.7	25.0		22.5		20.0	
	150	38.5	569	116.3	30.0	17069	27.0	15362	24.0	13655
	175		488	135.4	35.0		31.5		28.0	
	200		427	154.7	40.0		36.0		32.0	
	250		341	193.6	50.0		45.0		40.0	
	300		284	232.1	60.0		54.0		48.0	
	350		244	270.8	70.0		63.0		56.0	