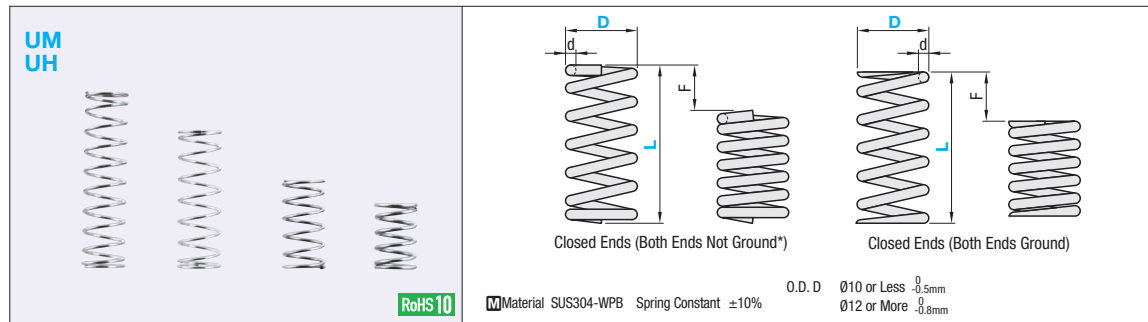


Round Coil Springs

O.D. Referenced Stainless Steel



UM: Fmax. (Allowable Deflection) = LxFa%

Part Number Type D-L	d	Solid Length	F max.	N{kgf} max.	Fa%	Unit Price	Part Number Type D-L	d	Solid Length	F max.	N{kgf} max.	Fa%	Unit Price	Part Number Type D-L	d	Solid Length	F max.	N{kgf} max.	Fa%	Unit Price												
UM 4- 5*	0.4	2.2	1.75	3.4 (0.35)	35		UM10- 10	0.9	5.2	3.5	10.8 (1.1)	35		UM16- 15	1.4	9.6	5.2	15.7 (1.6)	35		UM20- 20	1.8	11.3	7	34.3 (3.5)							
10*	0.5	4.9	3.5	6.8 (0.7)			15	1.0	7.3	5.2	15.7 (1.6)			20	1.5	12.4	7	20.6 (2.1)			25	1.9	13.3	8.8	43.1 (4.4)							
15	0.55	7.5	5.25	10.3 (1.05)			20	1.0	7.3	7	20.6 (2.1)			30	1.9	13.3	10.5	52.0 (5.3)			35	2.2	16	12.3	59.8 (6.1)	40	2.4	16	14	68.6 (7.1)		
20	0.6	11.1	7	13.7 (1.4)			30	1.1	10.5	10.5	31.4 (3.2)			40	2.2	23.7	17.5	86.3 (8.8)			50	2.2	23.7	21	103.0 (10.5)	60	2.4	34.8	24.5	120.6 (12.3)		
25	0.6	11.1	8.75	17.2 (1.75)			35	1.1	10.5	12.2	36.3 (3.7)			70	1.6	27.2	24.5	72.6 (7.4)			80	2.4	34.8	28	137.3 (14.1)							
30	0.65	16.3	10.5	20.6 (2.1)	40	1.2	15	14	41.2 (4.2)	80	1.7	36.2	28	82.4 (8.4)																		
UM 5- 5*	0.45	2.25	1.75	3.4 (0.35)	35		UM13- 15	1.2	8.4	5.2	15.7 (1.6)	35		UM13- 20	1.3	11.1	7	20.6 (2.1)	35		UM13- 25	1.3	11.1	8.7	25.5 (2.6)	35		UM13- 30	1.4	15.1	10.5	31.4 (3.2)
10*	0.5	3.13	3.5	6.8 (0.7)			20	1.3	11.1	7	20.6 (2.1)			35	1.4	15.1	12.2	36.3 (3.7)			40	1.4	15.1	14	41.2 (4.2)			45	1.4	15.1	15.8	46.1 (4.7)
15	0.65	8.45	5.25	10.3 (1.05)			40	1.4	15.1	14	41.2 (4.2)			50	1.4	15.1	17.5	52.0 (5.3)			60	1.6	27.2	21	61.8 (6.3)			70	1.6	27.2	24.5	72.6 (7.4)
20	0.65	8.45	7	13.7 (1.4)			70	1.4	30.8	21	61.8 (6.3)			80	1.7	36.2	28	82.4 (8.4)														
25	0.7	11.9	8.75	17.2 (1.75)																												
30	0.7	11.9	10.5	20.6 (2.1)																												
35	0.75	16.5	12.25	24.0 (2.45)																												
40	0.8	23.2	14	27.5 (2.8)																												
45	0.8	23.2	15.75	30.9 (3.15)																												
50	0.85	31.45	17.5	34.3 (3.5)																												
UM 6- 5*	0.55	2.7	1.7	4.9 (0.5)	35							35																				
10	0.7	5.6	3.5	10.8 (1.1)																												
15	0.75	7.4	5.2	15.7 (1.6)																												
20	0.75	7.4	7	20.6 (2.1)																												
25	0.85	12.8	8.7	25.5 (2.6)																												
30	0.85	12.8	10.5	31.4 (3.2)																												
35	0.9	16.7	12.2	36.3 (3.7)																												
40	0.9	16.8	14	41.2 (4.2)																												
45	1.0	27.8	15.8	46.1 (4.7)																												
50	1.0	28.0	17.5	52.0 (5.3)																												
60	1.0	28.0	18	53.0 (5.4)																												
70	1.1	46.2	20	58.8 (6)																												
UM 8- 10	0.85	6.4	3.5	10.8 (1.1)	35							35																				
15	0.9	7.9	5.2	15.7 (1.6)																												
20	0.9	7.9	7	20.6 (2.1)																												
25	0.9	7.9	8.7	25.5 (2.6)																												
30	1.0	12.0	10.5	31.4 (3.2)																												
35	1.0	12.0	12.2	36.3 (3.7)																												
40	1.1	18.7	14	41.2 (4.2)																												
45	1.1	18.7	15.8	46.1 (4.7)																												
50	1.1	18.7	17.5	52.0 (5.3)																												
60	1.2	28.2	21	61.8 (6.3)																												
70	1.3	42.0	24.5	72.6 (7.4)																												

For Types marked with *, both ends are not ground.
The values of solid length are for reference only.
There may be some variations depending on the lot.
Usage Count: 1 Million Times

Alterations Part Number - (LKC)
UM6-30 - LKC

Alterations	Code	Spec.			
	LKC	Changes length and spring constant tolerance. (Refer to the table below)			
		Part Number	L	Spring Constant Tolerance	
		Type D	Specify in 5mm Increment	Alterations	Tolerance
		4	15, 20		±0.4
			25, 30		±0.5
		5	15, 20		±0.4
			25-50		±0.5
		6	10-20		±0.4
		8	25-50		±0.5
		10	60, 70	LKC	±0.8
13	15-30		±0.5		
16	35-50		±0.5		
	60, 70, 80		±0.8		
	20-30		±0.5		
	35-50		±0.5		
	60, 70, 80		±0.8		

Both ends are ground. For orders larger than indicated quantity, please check with WOS.

UH: Fmax. (Allowable Deflection) = LxFa%

Part Number Type D-L	d	Solid Length	F max.	N{kgf} max.	Fa%	Unit Price	Part Number Type D-L	d	Solid Length	F max.	N{kgf} max.	Fa%	Unit Price	Part Number Type D-L	d	Solid Length	F max.	N{kgf} max.	Fa%	Unit Price					
UH 4- 5*	0.45	2.7	1.5	4.4 (0.45)	30		UH 10- 10	1.1	6.9	3	17.7 (1.8)	30		UH 16- 15	1.7	9.6	4.6	44.1 (4.5)	30		UH 20- 20	2.3	13.8	7.5	110.8 (11.3)
10*	0.5	3.8	3	8.8 (0.9)			15	1.1	6.9	4.5	26.5 (2.7)			20	1.9	14	6	58.8 (6)			25	1.9	14	7.5	73.5 (7.5)
15	0.6	8.1	4.5	13.2 (1.35)			20	1.2	9.3	6	35.3 (3.6)			30	1.9	14	9	88.3 (9)			35	1.9	14	10.5	103.0 (10.5)
20	0.65	11.7	6	17.6 (1.8)			30	1.3	12.7	7.5	22.1 (2.25)			40	2.2	25.1	12	117.7 (12)			45	2.2	25.1	13.5	132.4 (13.5)
25	0.7	16.8	9	26.5 (2.7)			35	1.4	17.5	10.5	61.8 (6.3)			50	2.2	25.1	15	147.1 (15)			60	2.3	30.5	15	88.3 (9)
UH 5- 5*	0.55	3.3	1.5	4.4 (0.45)	30		UH 13- 15	1.5	9.2	4.5	44.1 (4.5)	30		UH 20- 25	2.5	18.8	10.5	154.9 (15.8)	30		UH 30- 30	2.3	13.8	9	132.4 (13.5)
10	0.6	4.65	3	8.8 (0.9)			20	1.5	9.2	6	58.8 (6)			30	2.5	18.8	15	220.6 (22.5)			40	2.5	18.8	12	176.5 (18)
15	0.6	4.65	4.5	13.2 (1.35)			25	1.5	9.2	7.5	73.5 (7.5)			35	2.5	18.8	10.5	154.9 (15.8)			45	2.8	29.4	13.5	199.1 (20.3)
20	0.75	11.81	6	17.6 (1.8)			40	1.8	18	9	88.3 (9)			50	2.8	29.4	15	220.6 (22.5)			60	3	40.5	18	264.8 (27)
25	0.75	11.81	7.5	22.1 (2.25)			45	1.8	18	10.5	103.0 (10.5)			70	3	40.5	21	308.9 (31.5)			80	3.2	54.4	24	353.0 (36)
UH 6- 5*	0.65	3.2	1.5	8.8 (0.9)	30		UH 13- 20	1.5	9.2	6	58.8 (6)	30		UH 20- 30	2.3	13.8	9	132.4 (13.5)	30		UH 30- 40	2.8	29.4	15	220.6 (22.5)
10	0.7	3.9	3	17.7 (1.8)			25	1.5	9.2	7.5	73.5 (7.5)			35	2.5	18.8	10.5	154.9 (15.8)			45	2.8	29.4	13.5	199.1 (20.3)
15	0.85	7.7	4.5	26.5 (2.7)			30	1.8	18	9	88.3 (9)			40	2.5	18.8	12	176.5 (18)			50	2.8	29.4	15	220.6 (22.5)
20	0.9	9.7	6	35.3 (3.6)			45	1.8	18	13.5	132.4 (13.5)			60	3	40.5	18	264.8 (27)			70	3	40.5	21	308.9 (31.5)
25	1.0	15.5	7.5	44.1 (4.5)			70	2.2	45.1	21	205.9 (21)			80	2.2	45.1	20	196.1 (20)							
UH 8- 10	0.9	5.3	3	17.7 (1.8)	30		UH 13- 25	1.5	9.2	4.5	44.1 (4.5)	30		UH 20- 35	2.3	13.8	9	132.4 (13.5)	30		UH 30- 45	2.8	29.4	15	220.6 (22.5)
15	0.9	5.3	4.5	26.5 (2.7)			20	1.1	11	6	35.3 (3.6)			30	2.2	16	12.3	59.8							