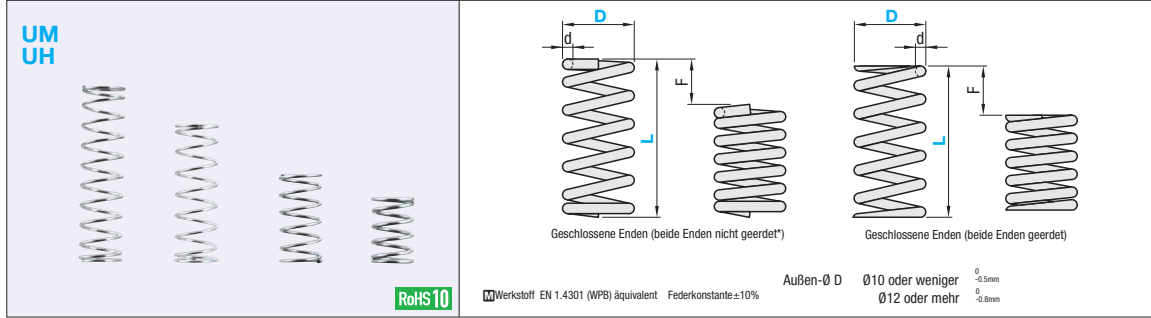


# Runde Schraubenfedern

Außen-Ø referenziert, rostfreier Stahl



## UM: Fmax. (Zulässige Auslenkung) = LxFa%

Teilenummer Ausführung D-L	d	Feste Länge	F max.	N{kgf} max.	Fa%	Stückpreis
UM 4- 5*	0.4	2.2	1.75	3.4 (0.35)	35	
10*	0.5	4.9	3.5	6.8 (0.7)		
15	0.55	7.5	5.25	10.3 (1.05)		
20	0.6	11.1	7	13.7 (1.4)		
25	0.6	11.1	8.75	17.2 (1.75)		
30	0.65	16.3	10.5	20.6 (2.1)		
UM 5- 5*	0.45	2.25	1.75	3.4 (0.35)	35	
10*	0.5	3.13	3.5	6.8 (0.7)		
15	0.65	8.45	5.25	10.3 (1.05)		
20	0.65	8.45	7	13.7 (1.4)		
25	0.7	11.9	8.75	17.2 (1.75)		
30	0.7	11.9	10.5	20.6 (2.1)		
UM 6- 5*	0.55	2.7	1.7	4.9 (0.5)	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)		
UM 8- 10	0.85	6.4	3.5	10.8 (1.1)	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)		

Für Ausführungen mit \* gilt: beide Enden sind nicht geschliffen.  
Die Werte für feste Länge sind nur Referenzwerte.  
Je nach Charge können diese leicht variieren.  
Gebrauchshäufigkeit: 1 Million Mal

Alterations Teilenummer - (LKC)  
UM6-30 - LKC

Optionen	Opt.-Nr.	Spez.																																																																																
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## UH: Fmax. (Zulässige Auslenkung) = LxFa%

Teilenummer Ausführung D-L	d	Feste Länge	F max.	N{kgf} max.	Fa%	Stückpreis
UH 4- 5*	0.45	2.7	1.5	4.4 (0.45)	30	
10*	0.5	3.8	3	8.8 (0.9)		
15	0.6	8.1	4.5	13.2 (1.35)		
20	0.65	11.7	6	17.6 (1.8)		
25	0.7	16.8	7.5	22.1 (2.25)		
30	0.7	16.8	9	26.5 (2.7)		
UH 5- 5*	0.55	3.3	1.5	4.4 (0.45)	30	
10	0.6	4.65	3	8.8 (0.9)		
15	0.6	4.65	4.5	13.2 (1.35)		
20	0.75	11.81	6	17.6 (1.8)		
25	0.75	11.81	7.5	22.1 (2.25)		
30	0.8	16	9	26.5 (2.7)		
UH 6- 5*	0.65	3.2	1.5	8.8 (0.9)	30	
10	0.7	3.9	3	17.7 (1.8)		
15	0.85	7.7	4.5	26.5 (2.7)		
20	0.9	9.7	6	35.3 (3.6)		
25	1.0	15.5	7.5	44.1 (4.5)		
30	1.0	15.5	9	53.0 (5.4)		
UH 8- 10	0.9	5.3	3	17.7 (1.8)	30	
15	0.9	5.3	4.5	26.5 (2.7)		
20	1.1	11	6	35.3 (3.6)		
25	1.1	11	7.5	44.1 (4.5)		
30	1.2	15.9	9	53.0 (5.4)		
35	1.2	15.9	10.5	61.8 (6.3)		
UH 10- 10	1.1	6.9	3	17.7 (1.8)	30	
15	1.1	6.9	4.5	26.5 (2.7)		
20	1.2	9.3	6	35.3 (3.6)		
25	1.2	9.3	7.5	44.1 (4.5)		
30	1.3	12.7	9	53.0 (5.4)		
35	1.4	17.5	10.5	61.8 (6.3)		
UH 13- 15	1.5	9.2	4.5	44.1 (4.5)	30	
20	1.5	9.2	6	58.8 (6)		
25	1.5	9.2	7.5	73.5 (7.5)		
30	1.8	18	9	88.3 (9)		
35	1.8	18	10.5	103.0 (10.5)		
40	1.8	18	12	117.7 (12)		
UH 16- 15	1.7	9.6	4.6	44.1 (4.5)	30	
20	1.9	14	6	58.8 (6)		
25	1.9	14	7.5	73.5 (7.5)		
30	1.9	14	9	88.3 (9)		
35	1.9	14	10.5	103.0 (10.5)		
40	2.2	25.1	12	117.7 (12)		
UH 20- 20	2.3	13.8	7.5	110.8 (11.3)	30	
25	2.3	13.8	9	132.4 (13.5)		
30	2.5	18.8	10.5	154.9 (15.8)		
35	2.5	18.8	12	176.5 (18)		
40	2.8	29.4	13.5	199.1 (20.3)		
45	2.8	29.4	15	220.6 (22.5)		
UH 25- 25	3	40.5	18	264.8 (27)	30	
30	3	40.5	21	308.9 (31.5)		
35	3.2	54.4	24	353.0 (36)		
40	3.2	54.4	24	353.0 (36)		
45	3.2	54.4	24	353.0 (36)		
50	3.2	54.4	24	353.0 (36)		

kgf (Last)=N/mm (Federkonstante) x0.101972xL (Auslenkung)  
(kgf)=Nx0.101972

Für Ausführungen mit \* gilt: beide Enden sind nicht geschliffen.  
Die Werte für feste Länge sind nur Referenzwerte.  
Je nach Charge können diese leicht variieren.  
Gebrauchshäufigkeit: 1 Million Mal

## Federkonstante

UV	UY	UR	UF	UL	UTT	UM	UH	UBB
2	0.05(0.005)	0.2(0.02)	0.3(0.03)	0.5(0.05)				
3					N/mm 1.5 (kgf/mm) (0.15)			
4	N/mm 0.05 (kgf/mm) (0.005)	N/mm 0.098 (kgf/mm) (0.01)				2.0(0.2)	2.9(0.3)	4.9(0.5)
5								
6		N/mm 0.29 (kgf/mm) (0.03)	N/mm 0.49 (kgf/mm) (0.05)	N/mm 0.98 (kgf/mm) (0.1)				
8								
10		N/mm 0.2 (kgf/mm) (0.02)			N/mm 2.0 (kgf/mm) (0.2)			
12								
13						N/mm 2.9 (kgf/mm) (0.3)	N/mm 5.9 (kgf/mm) (0.6)	N/mm 9.8 (kgf/mm) (1.0)
14								
16								
20	0.3(0.03)	0.5(0.05)	0.98(0.1)	2.9(0.3)	3.9(0.4)	4.9(0.5)	14.7(1.5)	29.4(3.0)
Fmax.	F=Lx70%	F=Lx Fa%	F=Lx Fa%	F=Lx 45%	F=Lx40%	F=Lx Fa%	F=Lx Fa%	F=Lx Fa%

Ordering Example Teilenummer  
UM16-80  
UH16-80

Alterations Teilenummer - (LKC)  
UH20-25 - LKC

Optionen	Opt.-Nr.	Spez.																																																																																
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