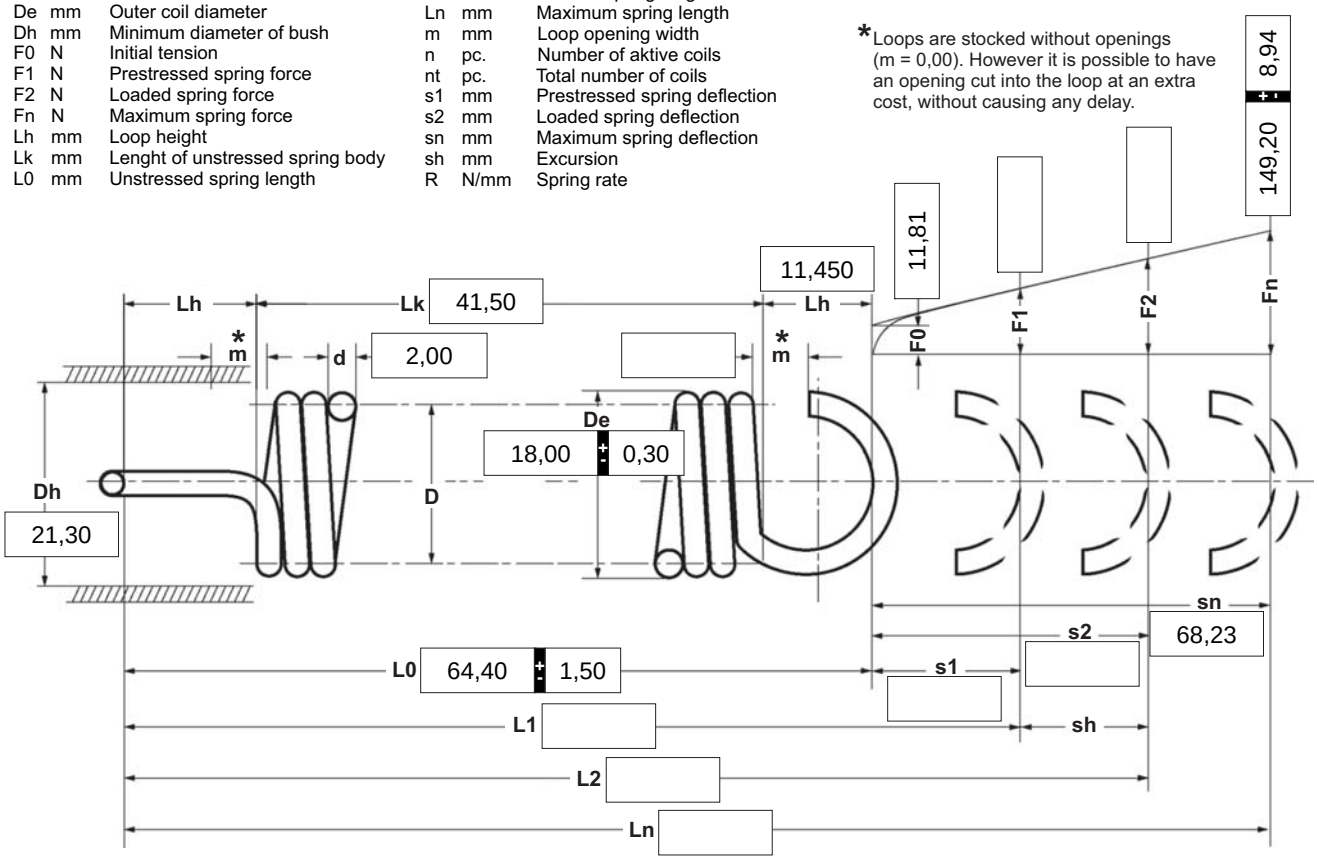
Data sheet Extension spring : Z-140X

GUTEKUNST FEDERN

08.2025

d	mm	Wire diameter	L1	mm	Prestressed spring length	Weight	g	Weight of one spring
D	mm	Mean coil diameter	L2	mm	Loaded spring length			
De	mm	Outer coil diameter	Ln	mm	Maximum spring length			
Dh	mm	Minimum diameter of bush	m	mm	Loop opening width			
F0	N	Initial tension	n	pc.	Number of aktive coils			
F1	N	Prestressed spring force	nt	pc.	Total number of coils			
F2	N	Loaded spring force	s1	mm	Prestressed spring deflection			
Fn	N	Maximum spring force	s2	mm	Loaded spring deflection			
Lh	mm	Loop height	sn	mm	Maximum spring deflection			
Lk	mm	Lenght of unstressed spring body	sh	mm	Excursion			
L0	mm	Unstressed spring length	R	N/mm	Spring rate			

*Loops are stocked without openings (m = 0,00). However it is possible to have an opening cut into the loop at an extra cost, without causing any delay.



n | nt | R 2,015 | Weight 27,000

Spring test acc. to DIN ISO 2859/1 test level II

1 Coiling direction

☐ left ☒ right

2 Loop shape and loop position

Loop shape: 1/1 German loop

Loops offset to one another by 270,0 ± 26,0 degrees (in the dir. of the right helix)

3 Excursion sh mm

4 Stress cyc. end. N

5 Stress cycle frequ. n /

6 Application temp. °C

7 Material: EN 10270-1

8 Wire or rod surface

☒ drawn ☐ rolled ☐ metal-cut

9 Surface treatment

10 Tolerances to DIN 2097

Grade	De,Di,D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076
1	☐	☐	☐	☐	
2	☒	☒	☒	☒	
3	☐	☐	☐	☐	☒

11 Production compensation through

A spring resistance, associated length of tensed spring and L0	F0, D ☒
A spring resistance, associated length of tensed spring and F0	L0, n, d ☐ L0, D ☐
Two spring resistances and associated length of tensed spring	L0, n, d ☐ F0,D ☐

Remarks

Country of origin: DE | Customs tariff number: 73202085

Prices

Quantity scale	Single price [EUR]
1	6,2300 €
2	3,9200 €
3	2,5300 €
7	2,1100 €
17	1,0500 €
37	0,6800 €
75	0,5300 €
125	0,5300 €
175	0,5300 €
250	0,5300 €
350	0,5300 €
450	0,5300 €

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