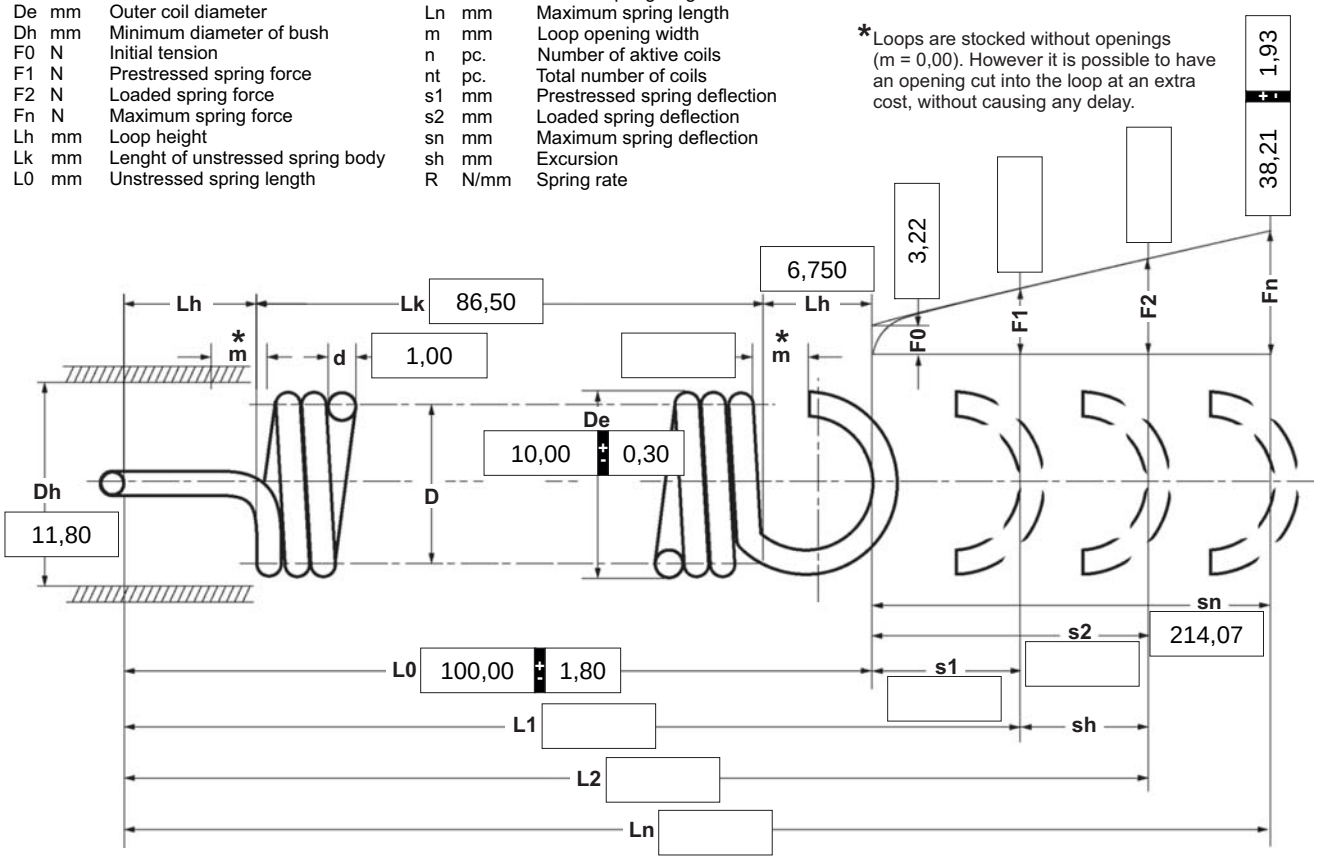
Data sheet Extension spring : Z-087JI

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 0,163 | Weight 15,270

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 180,0 ± 57,0 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 ☐

Prices

Stupnice množství	Jedn. cena [EUR]
1	6,4000 €
2	4,0300 €
3	2,8200 €
7	2,3500 €
17	1,1600 €
37	0,8500 €
75	0,6900 €
125	0,6356 €
175	0,6220 €
250	0,6172 €
350	0,5899 €
450	0,5461 €

Remarks

Zem pvodu: DE | íslo celního sazebníku: 73202085

Gutekunst + Co.KG Spring Factories · Carl-Zeiss-Straße 15 · D-72555 Metzingen
Sales +49 7123 960-192 · Customize springs +49 7123 960-193 · Main +49 7123 960-0
Fax +49 7123 960-195 · E-mail: order@gutekunst-co.com