

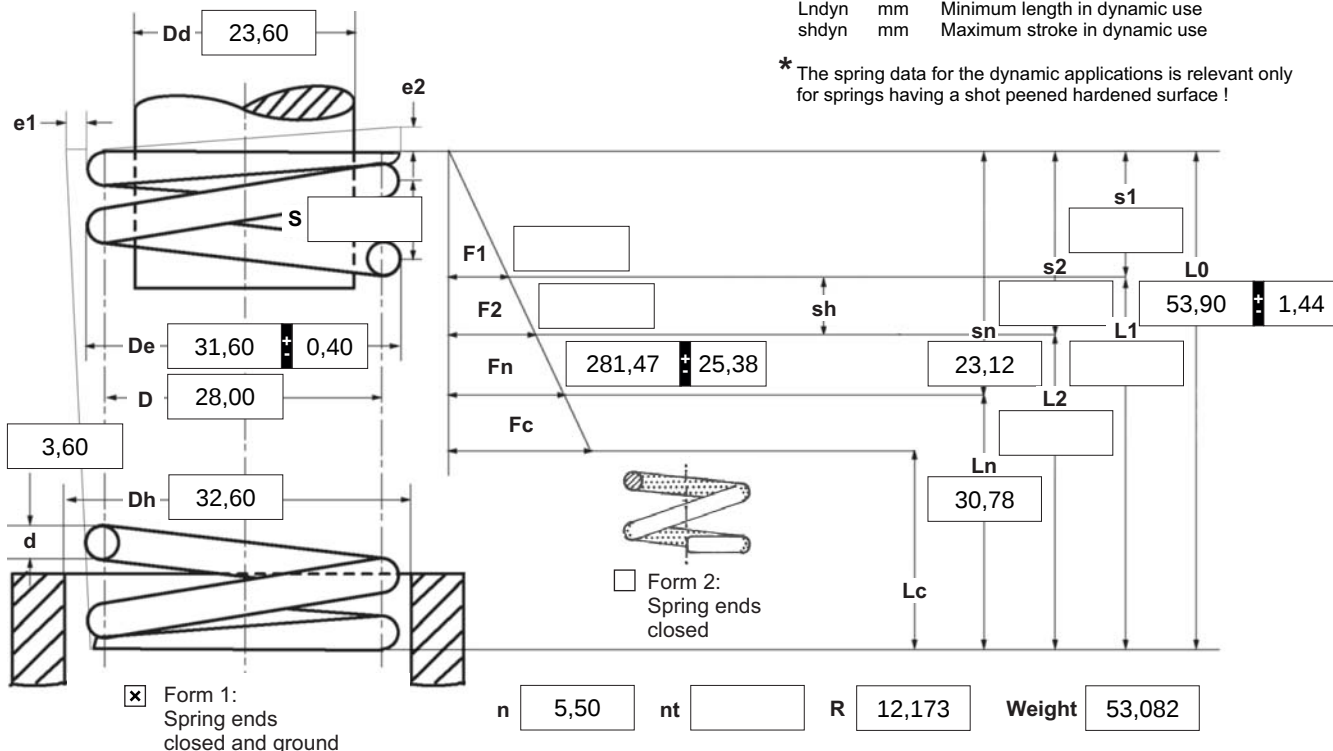
06.2025

d	mm	Wire diameter
D	mm	Mean coil diameter
Dd	mm	Diameter of mandrel
De	mm	Outer coil diameter
Dh	mm	Diameter of bush
e1	mm	Perm.dev. perpendicular line
e2	mm	Perm.dev. parallel line
F1	N	Prestressed spring force
F2	N	Loaded spring force

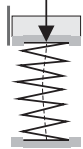
F _n	N	Maximum force in static use
F _c	N	Theoretic maximum force at L _c
L ₀	mm	Length of unstressed spring
L ₁	mm	Prestressed spring length
L ₂	mm	Loaded spring length
L _k	mm	Buckling length
L _n	mm	Minimum length in static use
L _c	mm	Block length
n	pc.	Active coils

nt	pc.	Total coils	06
R	N/mm	Spring rate	
S	mm	Pitch (distance between coils)	
s1	mm	Prestressed spring deflection	
s2	mm	Loaded spring deflection	
sh	mm	Maximum stroke in static use	
sn	mm	Maximum spring deflection in static use	
Weight	g	Weight of one spring in grammes	
Fndyn	N	Maximum force in dynamic force	
Fndtol	N	(+/-) tolerance of maximum dynamic force	
Lndyn	mm	Minimum length in dynamic use	
shdyn	mm	Maximum stroke in dynamic use	

* The spring data for the dynamic applications is relevant only for springs having a shot peened hardened surface !



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

1 Coiling direction ☐  left ☒  right		7 Guidance and seat to DIN EN 13906-1 ☐ mandrel ☐ bush Buckling length L_k at  v=0,5 / Bild 5 0,00 mm		12 Tolerances to DIN EN 15800 <table><tr><th>Grade</th><th>De,Di,D</th><th>L0</th><th>F1,F2</th><th>e1,e2</th><th>Wire diameter d to DIN 2076</th></tr><tr><td>1</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td></td></tr><tr><td>2</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td><td></td></tr><tr><td>3</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☒</td></tr></table>		Grade	De,Di,D	L0	F1,F2	e1,e2	Wire diameter d to DIN 2076	1	☐	☐	☐	☐		2	☒	☒	☒	☒		3	☐	☐	☐	☐	☒		
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2 Dynamic load * <table><tr><td>Fndyn</td><td> 258,42 </td></tr><tr><td>Fndtol</td><td> 24,98 </td></tr><tr><td>Lndyn</td><td> 32,67 </td></tr><tr><td>shdyn</td><td> 14,33 </td></tr></table>		Fndyn	258,42	Fndtol	24,98	Lndyn	32,67	shdyn	14,33	8 Material 1.4310		13 Prouction compensation through <table><tr><td>A spring resistance and associated length of tensed spring</td><td>L0</td><td>☐</td></tr><tr><td>A spring resistance, associated length of tensed spring and L0</td><td>n, d</td><td>☒</td></tr><tr><td></td><td>n, De, Di</td><td>☐</td></tr><tr><td>Two spring resistances and associated lengths of tensed spring</td><td>L0, n, d</td><td>☐</td></tr><tr><td></td><td>L0,n,De,Di</td><td>☐</td></tr></table>		A spring resistance and associated length of tensed spring	L0	☐	A spring resistance, associated length of tensed spring and L0	n, d	☒		n, De, Di	☐	Two spring resistances and associated lengths of tensed spring	L0, n, d	☐		L0,n,De,Di	☐			
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3 Excursion sh mm		9 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut		14 Setting springs All springs which show setting tendency because of their size are pre-set within the production process.																											
4 Stress cyc. end. N		10 Springs deburred ☐ inside ☐ outside		Prices <table><tr><th>Grupa ilociowa</th><th>Cena jednostkowa [EUR]</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td>12,9200 €</td></tr><tr><td>3</td><td>10,2900 €</td></tr><tr><td>7</td><td>5,8600 €</td></tr><tr><td>17</td><td>3,7100 €</td></tr><tr><td>37</td><td>2,3700 €</td></tr><tr><td>75</td><td>2,0000 €</td></tr><tr><td>125</td><td>1,9100 €</td></tr><tr><td>175</td><td>1,8670 €</td></tr><tr><td>250</td><td>1,8647 €</td></tr><tr><td>350</td><td>1,8186 €</td></tr><tr><td></td><td>1,7923 €</td></tr></table>		Grupa ilociowa	Cena jednostkowa [EUR]	1		2	12,9200 €	3	10,2900 €	7	5,8600 €	17	3,7100 €	37	2,3700 €	75	2,0000 €	125	1,9100 €	175	1,8670 €	250	1,8647 €	350	1,8186 €		1,7923 €
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5 Stress cycle frequ. n /		11 Surface treatment ☐ shot peened 																													
6 Application temp. °C																															
Remarks Kraj pochodzenia: DE Numer taryfy celnej: 73202081																															