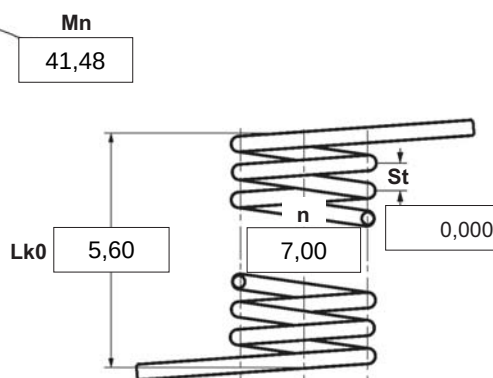


α	degree	Unstressed leg position
α_1	degree	Prestressed rotational angle
α_2	degree	Loaded rotational angle
αh	degree	Excursion
αn	degree	Maximum rotational angle
d	mm	Wire diameter
Ddmin	mm	Min. possible mandrel diameter
Ddmax	mm	Max. possible mandrel diameter
De	mm	Outer coil diameter
Di	mm	Inner coil diameter
F1	N	Prestressed spring force
F2	N	Loaded spring force
Lk0	mm	Length of spring body when relaxed
LS	mm	Length of leg
M1	Nmm	Prestressed torque
M2	Nmm	Loaded torque
Mn	Nmm	Maximum torque
n	pc.	Active coils
RH	mm	Distance power flow point from centre
St	mm	Distance between coils (pitch)
Weight	g	Weight of one spring in grammes



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

1 Coiling direction ☒ left ☐ right	5 Excursion α_h degr.	12 Tolerances to DIN 2194 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Grade</th> <th>Di</th> <th>Lk0</th> <th>LSH, LSR</th> <th>$\alpha, \alpha_1, \alpha_2$</th> <th>M1, M2</th> <th rowspan="4" style="font-size: 0.8em; text-align: center;">Wire diameter d to DIN 2076</th> </tr> </thead> <tbody> <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> </tbody> </table>	Grade	Di	Lk0	LSH, LSR	$\alpha, \alpha_1, \alpha_2$	M1, M2	Wire diameter d to DIN 2076	1	☐	☐	☐	☐	☐	2	☒	☒	☒	☒	☒	3	☐	☐	☐	☐	☐
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2	☒	☒	☒	☒	☒																						
3	☐	☐	☐	☐	☐																						
2 Form of legs tangential, straight, no bends * *We can also supply torsion springs with any form of leg for an extra charge.	6 Stress cyc. end. N	13 Production compensation through <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">A spring torque and the associated swing angle</td> <td style="width: 20%; text-align: center;">α ☒</td> </tr> <tr> <td>A spring torque and the associated swing angle and α_0</td> <td> n, d ☐ n, Di ☐ </td> </tr> <tr> <td>Two spring resistances and the associated swing angle</td> <td> α, n, d ☐ α, n, Di ☐ </td> </tr> </table>	A spring torque and the associated swing angle	α ☒	A spring torque and the associated swing angle and α_0	n, d ☐ n, Di ☐	Two spring resistances and the associated swing angle	α , n, d ☐ α , n, Di ☐																			
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3 Fixing Recumbent leg Lever leg 	7 Stress cycle frequ. n /																										
4 Load ☐ in winding direction ☐ against winding direction	8 Application temp. °C	Prices <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 30%; text-align: right;">Cantidad progresiva</th> <th style="width: 30%; text-align: right;">Precio unidad [EUR]</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: right;">1</td> <td style="text-align: right;">5,1100 €</td> </tr> <tr> <td></td> <td style="text-align: right;">2</td> <td style="text-align: right;">3,6000 €</td> </tr> <tr> <td></td> <td style="text-align: right;">3</td> <td style="text-align: right;">3,4200 €</td> </tr> </tbody> </table>		Cantidad progresiva	Precio unidad [EUR]		1	5,1100 €		2	3,6000 €		3	3,4200 €													
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	9 Material 																										
	10 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut																										
	11 Surface treatment 																										

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13 Production compensation	through	
A spring torque and the associated swing angle	α	☒
A spring torque and the associated swing angle and α_0	n, d	☐
	n, Di	☐
Two spring resistances and the associated swing angle	α, n, d	☐
	α, n, Di	☐

Prices

Cantidad progresiva	Precio unidad [EUR]
1	5,1100 €
2	3,6000 €
3	3,4300 €
7	2,2200 €
17	1,1200 €
37	0,7400 €
75	0,5500 €
125	0,4570 €
175	0,4069 €
250	0,3567 €
350	0,3095 €
450	0,2652 €