# Data sheet Torsion spring : T-16045L

GUTEKUNST FEDERN

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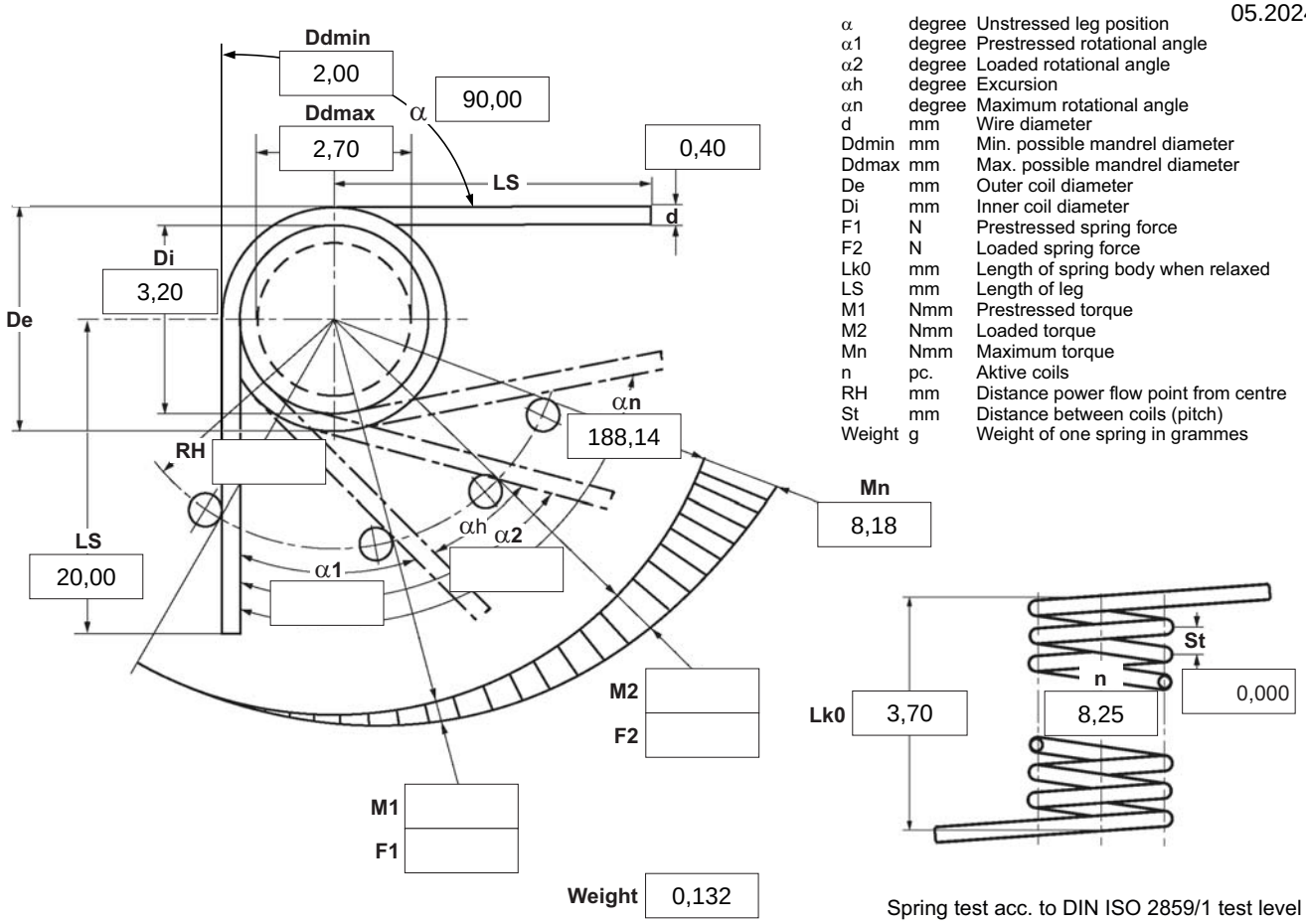


| | | |
|---|---|---|
| α | degree | Unstressed leg position |
| α1 | degree | Prestressed rotational angle |
| α2 | degree | Loaded rotational angle |
| αh | degree | Excursion |
| αn | degree | Maximum rotational angle |
| d | mm | Wire diameter |
| Ddmin | mm | Min. possible mandrel diameter |
| Ddmax | 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. | Aktive 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

**2 Form of legs**

tangential, straight, no bends *

*We can also supply torsion springs with any form of leg for an extra charge.

**3 Fixing**

| Recumbent leg | Lever leg |
|---|---|
| | |

**4 Load**

☐ in winding direction
☐ against winding direction

**5 Excursion αh** degr.

**6 Stress cyc. end. N**

**7 Stress cycle frequ. n** /

**8 Application temp.** °C

**9 Material**

EN 10270-3-1.4310

**10 Wire or rod surface**

☒ drawn ☐ rolled ☐ metal-cut

**11 Surface treatment**

**12 Tolerances to DIN 2194**

| Grade | Di | Lk0 | LSH,LSR | α,α1,α2 | M1,M2 | Wire diameter **d** to DIN 2076 |
|---|---|---|---|---|---|---|
| 1 | ☐ | ☐ | ☐ | ☐ | ☐ | |
| **2** | ☒ | ☒ | ☒ | ☒ | ☒ | |
| 3 | ☐ | ☐ | ☐ | ☐ | ☐ | ☒ |

**13 Production compensation through**

| | |
|---|---|
| A spring torque and the associated swing angle | α ☒ |
| A spring torque and the associated swing angle and α0 | n, d ☐ / n, Di ☐ |
| Two spring resistances and the associated swing angle | α, n, d ☐ / α, n, Di ☐ |

**Prices**

| Quantity scale | Single price [EUR] |
|---|---|
| 1 | 5,1600 € |
| 2 | 3,6400 € |
| 3 | 3,4700 € |
| 7 | 2,4200 € |
| 17 | 1,1500 € |
| 37 | 0,8500 € |
| 75 | 0,6800 € |
| 125 | 0,4859 € |
| 175 | 0,4196 € |
| 250 | 0,3695 € |
| 350 | 0,3536 € |
| 450 | 0,3284 € |

**Remarks**

Country of origin: DE | Customs tariff number: 73202089


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