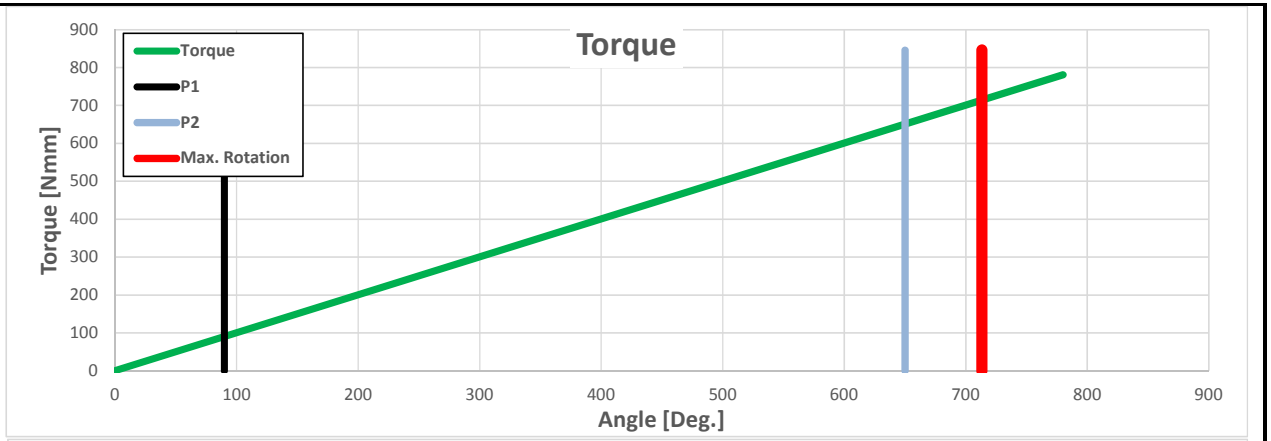
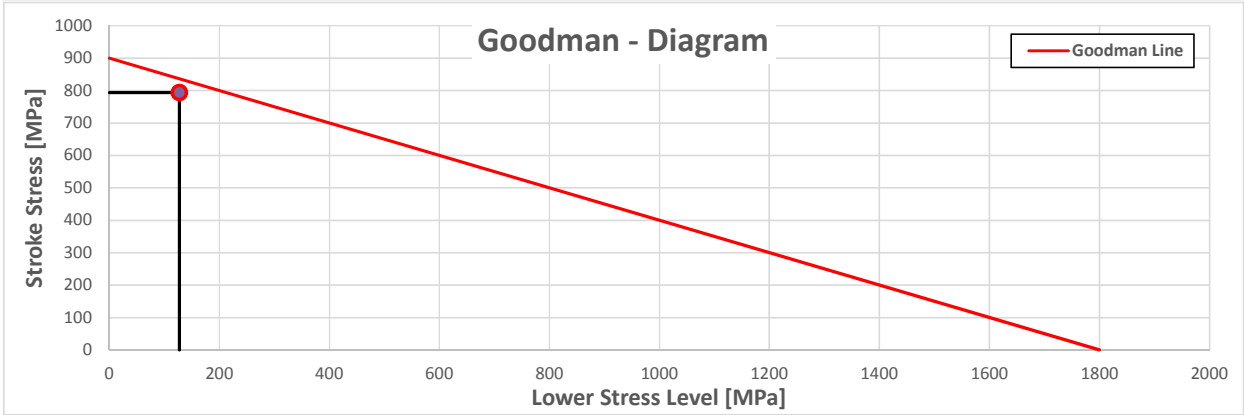
GEBR. SCHMIDT
SPEZIALFEDERN

Customer.:
Project No.:
Date:
Prep. By:
Revision: 1.0

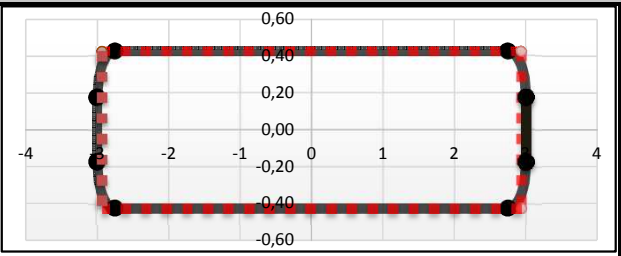
Material	EN 10270-2 (TD-Wire)
Temperature of Application [°C]	20
E-Modulus [MPa]	206000
Min. Tensile Strength [MPa]	1800
Cross Section	
Material Width [mm]	6,00
Material Thickness [mm]	0,85
Corner Radius [mm]	0,25
Corrected Width [mm]	**5,87**
Spring Geometrie	
Inner Ø [mm]	**16,0**
Outer Ø [mm]	**50,0**
Total Spring Length [mm]	**1100**
Working Spring Length [mm]	**1078**
Fill Level [%]	**74**
No. of Windings [-]	**10,53**
Max. Rotation [Deg]	**713**
Spring Rate [Nmm/Deg]	**1,00**
Weight [Gram]	**43**
Bending Stress	
No. of Required Life Cylces [-]	1,00E+04
P1 [Nmm]	90,00
P2 [Deg]	650,00
P1 [Deg]	**90**
P2 [Nmm]	**651**
Goodman Factor [-]	**1,05**
Application of Load [-]	**Static - σzul<0.7xRm**





Bending Stress P1 [MPa]	**127**	**Outer Ø P1 [mm]**	**49**
Bending Stress P2 [MPa]	**921**	**Outer Ø P2 [mm]**	**40**

→ F.S.: 0,96 - 6x0,85 - EN 10270-3 (1.4310) - Passed Turns: 183434 - Check Life Cycle Data!



Spring Specifications -	
Material	EN 10270-2 (TD-Wire)
Width	6 mm
Thickness	0,85 mm
Spring rate	1,1 Nmm/Deg.
AØ	50 mm
Weight	43,1 Gram