

Parameters	Value
Mass per wheel (m)	55 Kg
Factor for static and dynamic conditions	3
Angle of inclination of the strut from horizontal (Θ)	60 degree
Reaction force acting on the ground on the wheel	539.55 N
Point of attachment of strut from chassis end	220.22 mm
Horizontal distance of reaction force from hinge point	514.09 mm
Force acting on spring	1259.57 N
Shear stress (τ)	765 N/mm ²
Wahl factor (K)	1.1840
Spring index (C)	8
Wire diameter (d)	7 mm
Mean coil diameter of spring (D)	56 mm
Inner diameter of coil (D_i)	49 mm
Outer diameter of coil (D_o)	63 mm
Number of active coil (N)	8 coils
Total number of coil (N_t)	10 coils
Solid length of spring	70 mm
Actual deflection of spring (δ)	162.24 mm
Axial gap between the coils	9 mm
Free length of coil	241.24 mm
Pitch of coil	26.80 mm
Rate of Spring (k)	17.51 N/mm

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