

Fig. 1 Front Top & Sectional Side View of MLS

III. Existing Material

Material properties:- The properties of the material 55Si2Mn90 being used in this analysis are shown in Table 1 Mechanical Properties of EN45.

Table 1: Mechanical Properties of EN45

PARAMETER	VALUE
Young's Modulus (E)	200GPa
Poisson's Ratio	0.3
Tensile Strength Ultimate	1962 MPa
Tensile Strength Yield	1800 MPa
Density	7850 kg/m ³
Thermal Expansion	11x10 ⁻⁶ / °C

IV. Load and Boundary Conditions

One eye of the leaf spring is kept fixed (cylindrical support) and the other eye is given certain degree of rotation to allow the leaf spring to deflect by some amount along its length to meet the actual conditions which is shown in figure 4.14. After this load is applied of magnitude 12500 N in the upward direction at the centre of the MLS. This particular calculation of load to be applied has been done on the basis of GVW (Gross Vehicle Weight). This has been clearly shown the figure 2.

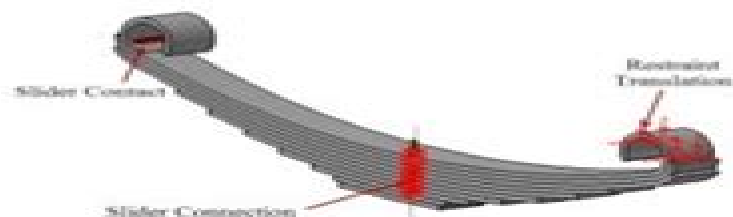


Fig. 2 Boundary condition of MLS

V. Static Structural Analysis in CATIA V5 R20

After applying the boundary conditions the maximum von mises stress and maximum displacement is shown in Fig. 3 & 4

Multi Leaf Spring Design Guide

Frank Oddo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Multi Leaf Spring Design Guide:

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