

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

Table 1: Mechanical Properties of EN-45

PARAMETER	VALUE
Young's Modulus (E)	200 GPa
Poisson's Ratio	0.3
Tensile Strength Ultimate	1962 MPa
Tensile Strength Yield	1800 MPa
Density	7850 kg/m ³
Thermal Expansion	11 x 10 ⁻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 M.L.S. 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.

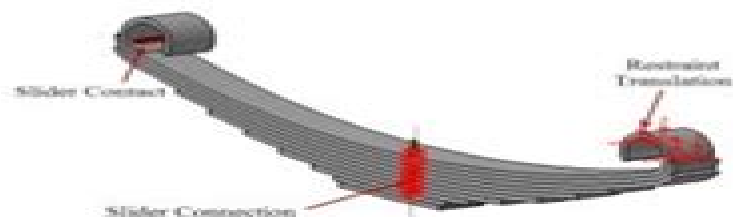


Fig. 2 Boundary condition of NLLS

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

R Pring



Multi Leaf Spring Design Guide:

Unveiling the Magic of Words: A Report on "**Multi Leaf Spring Design Guide**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Multi Leaf Spring Design Guide**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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