

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)	200GPa
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.

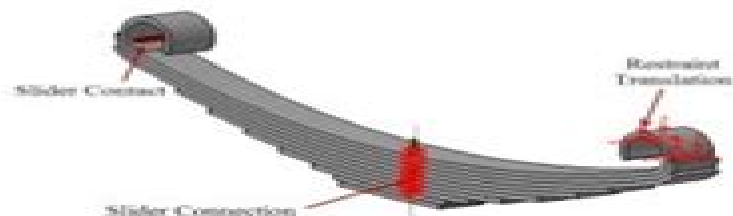


Fig. 2 Boundary condition of NLLS

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

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1. Understanding the eBook Multi Leaf Spring Design Guide
 - The Rise of Digital Reading Multi Leaf Spring Design Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Multi Leaf Spring Design Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Multi Leaf Spring Design Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Multi Leaf Spring Design Guide
 - Personalized Recommendations
 - Multi Leaf Spring Design Guide User Reviews and Ratings
 - Multi Leaf Spring Design Guide and Bestseller Lists

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 - Multi Leaf Spring Design Guide Budget-Friendly Options
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 - Multi Leaf Spring Design Guide Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Multi Leaf Spring Design Guide
 - Highlighting and Note-Taking Multi Leaf Spring Design Guide
 - Interactive Elements Multi Leaf Spring Design Guide
8. Staying Engaged with Multi Leaf Spring Design Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Multi Leaf Spring Design Guide
9. Balancing eBooks and Physical Books Multi Leaf Spring Design Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Multi Leaf Spring Design Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Multi Leaf Spring Design Guide
 - Setting Reading Goals Multi Leaf Spring Design Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Multi Leaf Spring Design Guide
 - Fact-Checking eBook Content of Multi Leaf Spring Design Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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