

MercuryRT for Operational Deflection Shapes Analysis in Chainsaw Blades

Introduction:

Unlock unprecedented insights into chainsaw blade performance with MercuryRT, the leading solution for operational deflection shapes (ODS) analysis. Dive into the dynamics of chainsaw blades by measuring vibrations during operational conditions, rendering deflection shapes at chosen frequencies, and offering dynamic animation options for enhanced understanding.

Objective: Chainsaw Blade Operational Deflection Shapes Analysis

Perform vibration measurements on chainsaw blades during operational conditions, visualize deflection shapes at chosen frequencies, and enjoy dynamic animations for comprehensive blade analysis.

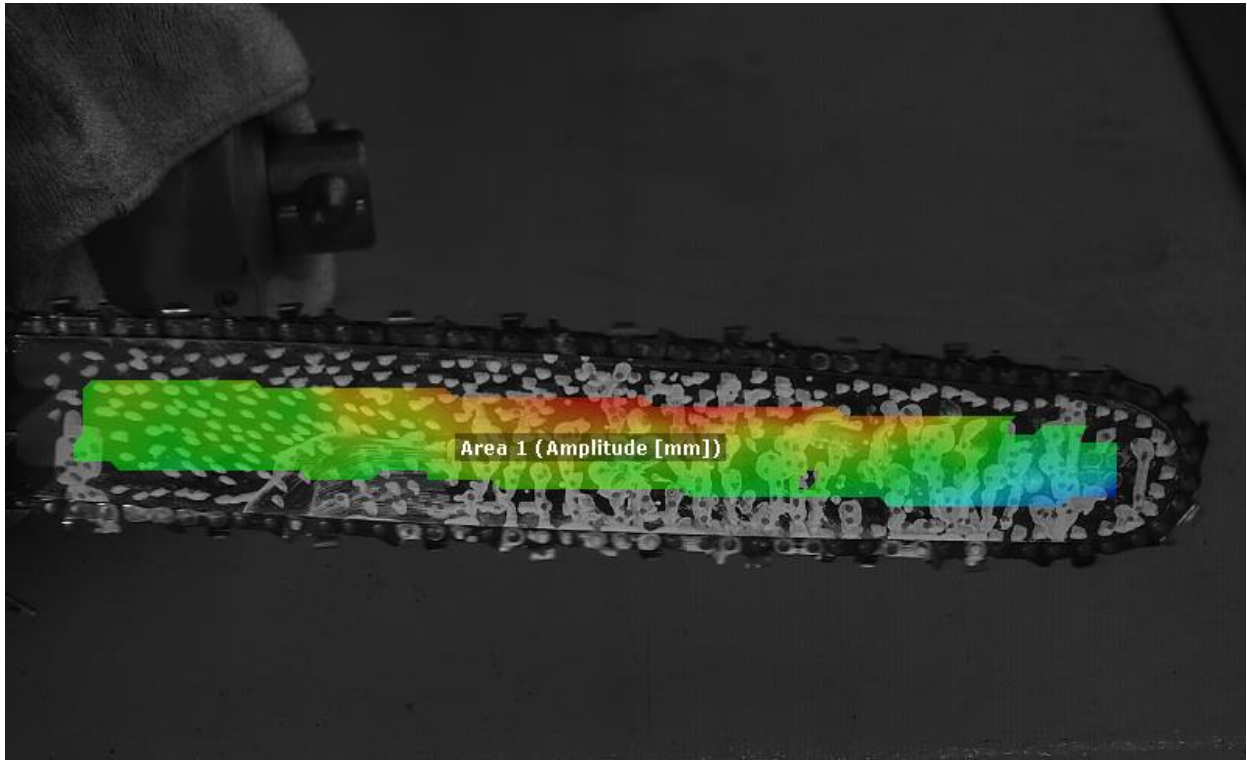
Steps:

1. **Real-time Vibration Measurement:** Conduct vibration measurements on chainsaw blades during actual operational conditions using MercuryRT-compatible sensors.
2. **Chosen Frequency Analysis:** Choose specific frequencies of interest for detailed deflection shape analysis.
3. **Deflection Rendering:** MercuryRT renders the deflection shapes of chainsaw blades at the chosen frequencies, providing a clear visual representation.
4. **Dynamic Animation:** Engage dynamic animation options to observe and analyze the evolving deflection patterns over time.

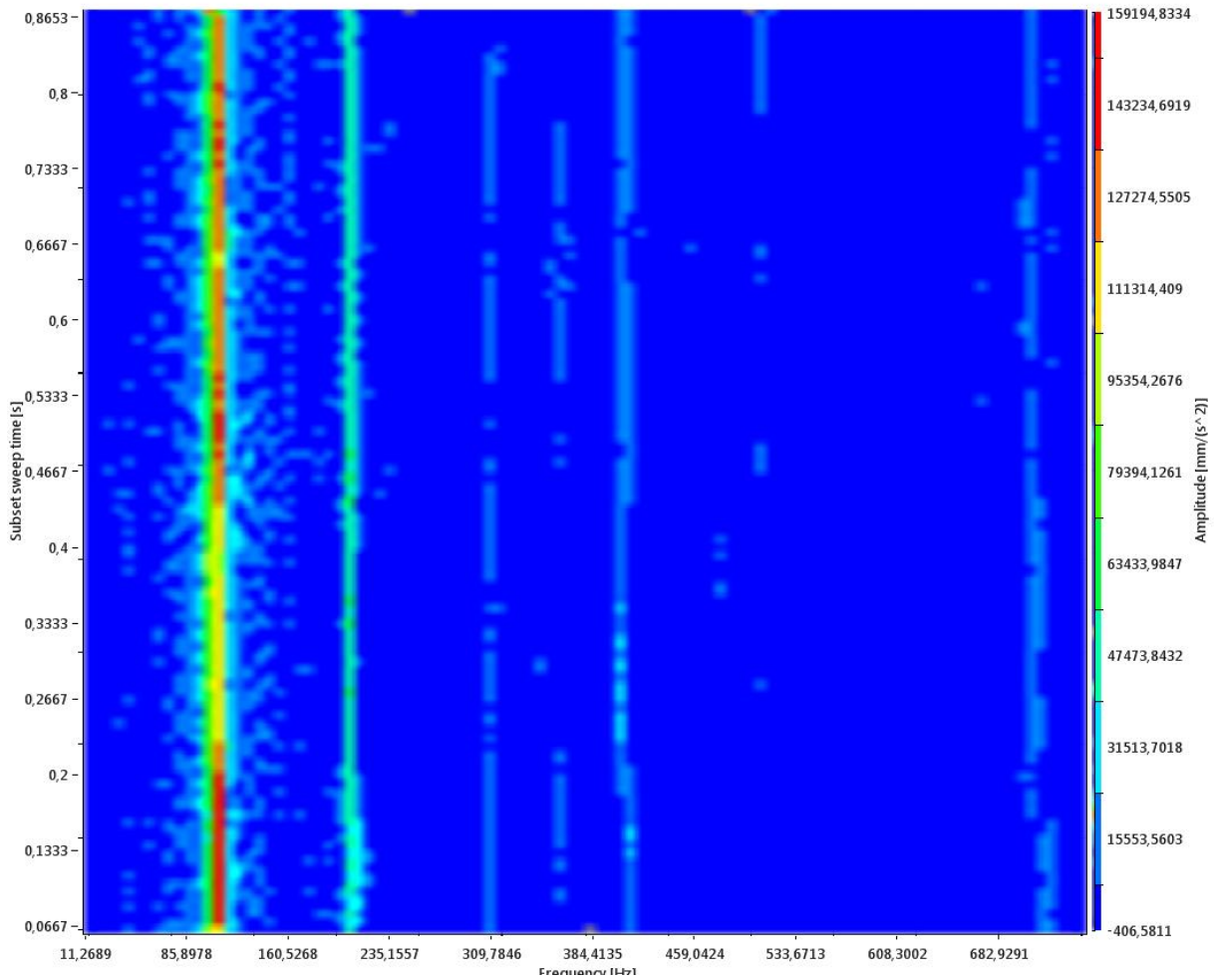
Benefits:

- **Operational Insights:** Gain insights into the real-world operational deflection shapes of chainsaw blades for performance optimization.
- **Frequency-Specific Analysis:** Identify critical frequencies and visualize deflection patterns for targeted analysis.
- **Dynamic Visualization:** Utilize dynamic animation to understand the evolving deflection shapes during operational conditions.





T14 - Acceleration Y [mm/(s²)]





Amplitude Graph

Area - Acceleration Y [mm/(s²)] (average)

