

Marc complements electromagnetic and thermal transformer design tools by predicting winding stress, thermal expansion, vibration, fatigue, sealing performance, and structural integrity. Engineers can improve reliability, reduce failures, optimize designs, and extend transformer service life before physical testing.

Key Benefits

- Predict winding deformation during short-circuit events
- Evaluate thermal expansion and mechanical stress
- Improve transformer structural integrity
- Analyze vibration, noise, and resonance risks
- Predict fatigue life and long-term durability
- Assess gasket sealing and leakage performance
- Optimize tank, support, and clamping structures
- Reduce physical testing and validation costs
- Improve reliability for both dry-type and oil-filled transformers
- Accelerate design validation and time-to-market

Key Message

Electromagnetic tools predict transformer performance. Marc predicts how the transformer responds to heat, forces, vibration, and real-world operating conditions throughout its service life.