

WAM

Single Contact Model

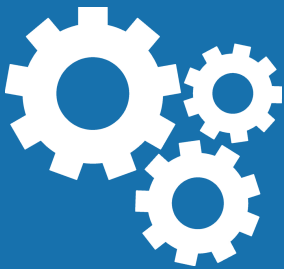


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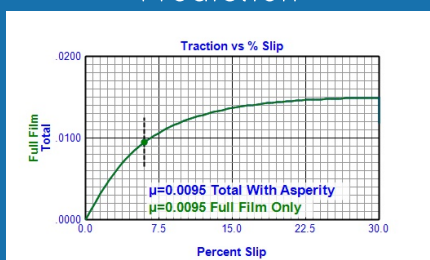
The Next Development In Tribology Design



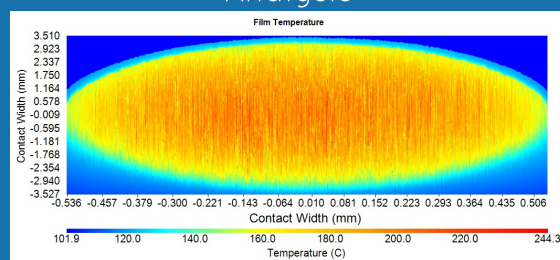
Analyze Your Cutting
Edge Bearing or
Gear Design



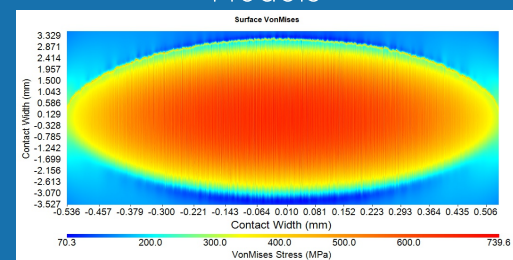
Advanced Traction
Prediction



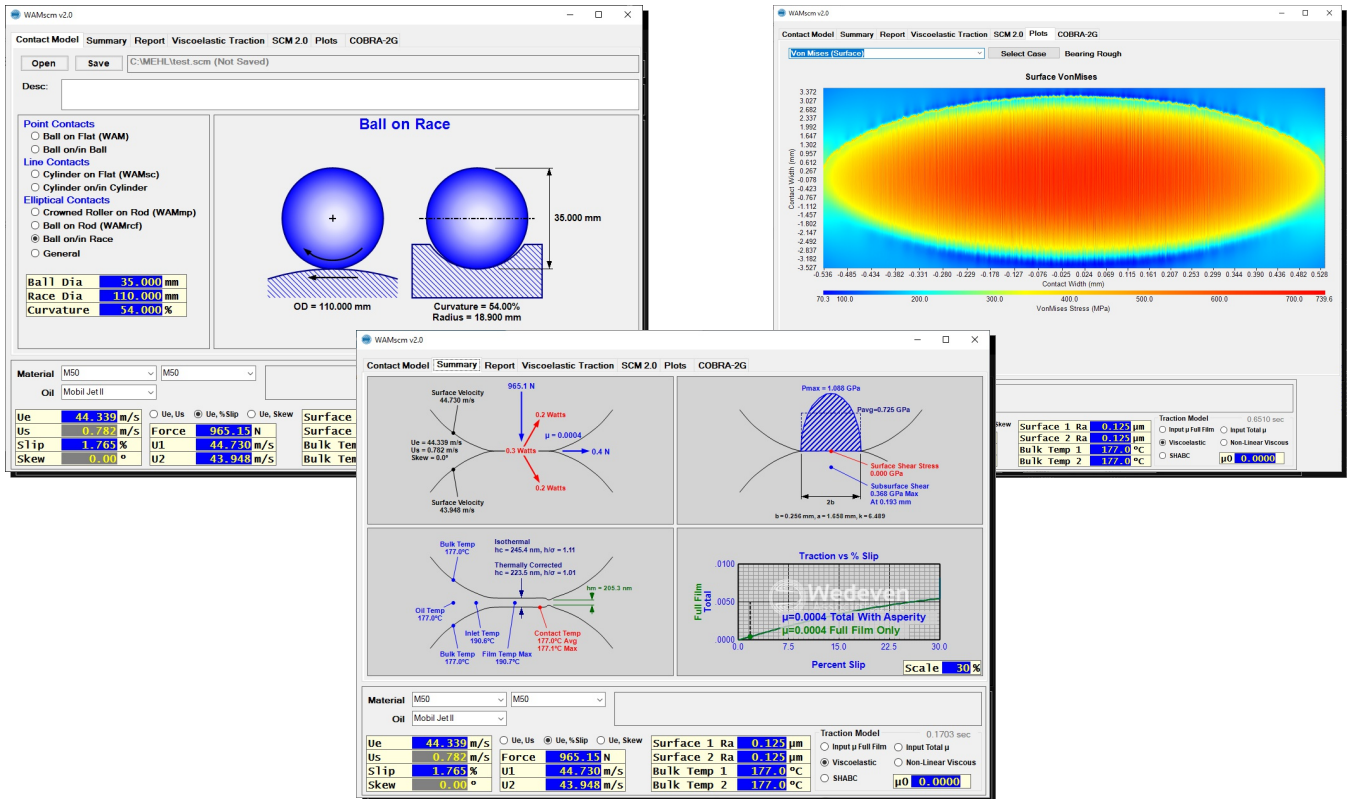
Temperature
Analysis



Advanced Stress
Models



Next Level Tribology Design



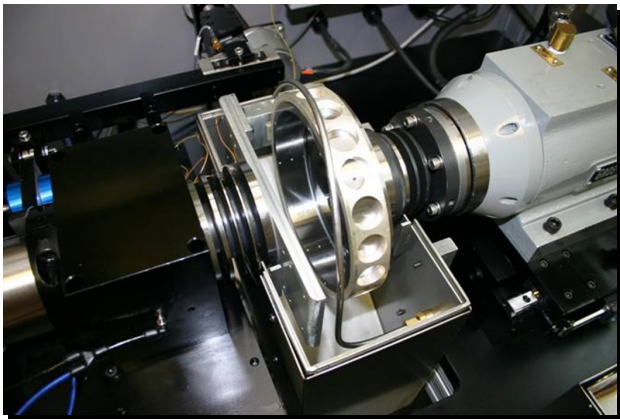
Model Inputs

Geometry
Material
Lubricant
Surface Finish
3D Surface Topography
Surface Velocity
Sliding Velocity
Contact Load
Design Temperature
Residual Stresses

Model Outputs

Isothermal Film Thickness
Thermally Adjusted Film Thickness
Lambda Ratio Calculation
Lubricant Viscosity
Film Pressure
Surface Temperature
Oil Film Temperature
Heat Generation
Heat Flux
Traction Coefficient
Shear Stress
Surface and Subsurface Stresses
Asperity Stresses

Upgrade Your Oil Formulation



Subscale Testing
for Full Scale Results

WAMscm integrates physics based tribology models to characterize your oil formulation. Wedeven Associates then will utilize their unique testing technology to extract the key tribology characteristics of your formulation required for a physics based traction model. With your oil formulation fully characterized, WAMscm can be used to design for new applications across a full range of high tech industries.