



AKSELOS INTEGRA™ CAPABILITIES

Brochure

- RB-FEA, FEA, and Hybrid
- ▲ FEA and Hybrid Solver
- ☒ Coming soon

Dynamic

Modal superposition	●
Explicit and implicit time-stepping	▲

HPC

Parallel solving on Cloud	●
Parallel RB-FEA component training	●
Parallel solving on in-house cluster	●

Interfaces to External Software

MATLAB	●
Hydrodynamics software (WAMIT, WADAM)	●

Miscellaneous Features

Python scripting	●
Multi-format mesh importing	●

Third Party Plugins

Fatigue analysis	☒
Standards-based structural checks	●
Fracture mechanics	☒

Structural Entities

Spring (Linear and Nonlinear)	●
Mass	●
Rigid	●
Beams (standard and custom cross-sections)	●
Shells	●
Solids	●
Tension-only/compression-only springs	●

Structural Solver Capabilities

Linear static	●
Thermal stress	●
Rotational centrifugal	●
Geometric nonlinearity	▲
Buckling - Linear eigenvalue	▲
Buckling - nonlinear (arc length continuation)	☒

Contact Modelling

Node-to-node	●
Surface-to-surface	▲
Node-to-surface	▲
Friction	▲

Materials

Finite strain (hyperelasticity, logarithmic)	▲
Plasticity	▲
Composites	●

Vibrations

Modal	●
Harmonic (Frequency-domain forced vibration)	●



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