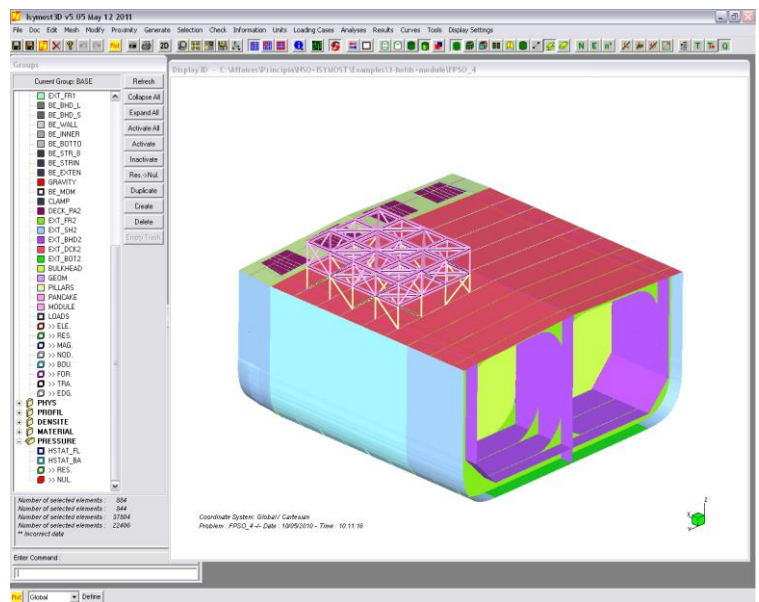# ISYMOST™
Structures modeling and analysis management

ISYMOST is designed to help engineers managing the analysis of structures.

It offers modeling, pre- and post-processing for various calculations programs.

ISYMOST can handle simple or very complex models thanks to its data management system.
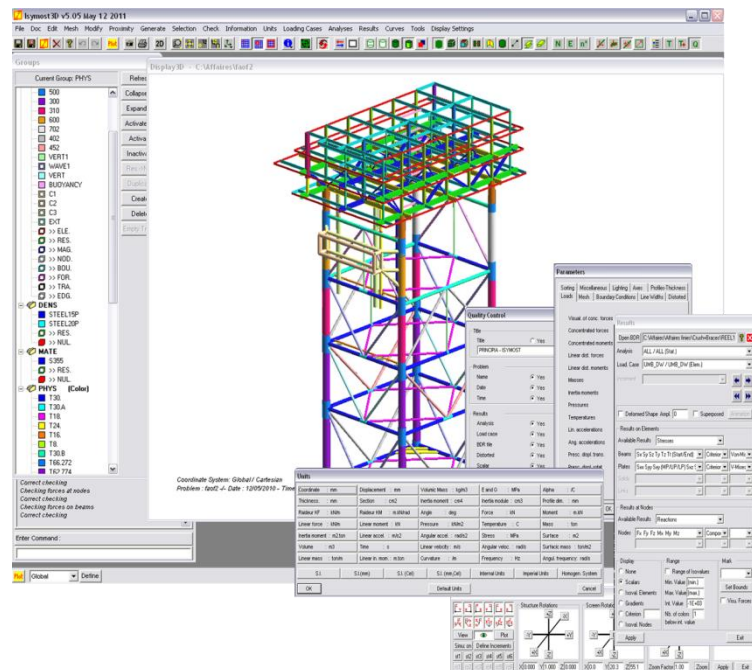
Recent developments have improved dramatically the interface, making ISYMOST learning curves even shorter.

The new interface combined to its long-known powerful macro-programming capabilities makes ISYMOST easy-to-use yet productive software.
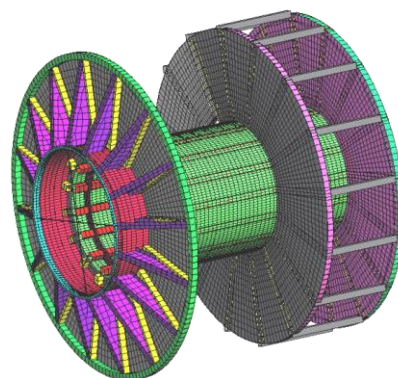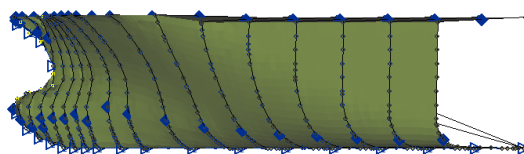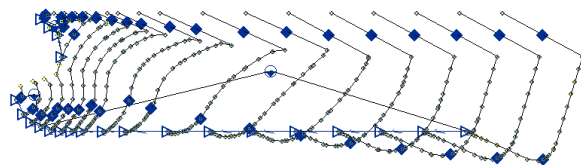
Main features

- User-friendly interface
- Advanced meshing capabilities
- Efficient data management
- Extensive graphical model data checks
- Easy boundary conditions and connectors definition
- Comprehensive list of standard profiles (BS, EN, JIS, ASME…)
- Fully interfaced with FASTRUDL / NSO, DIODORE, ABAQUS, SACS
- Management of hydro-structure coupling
- Conversion tools to/from numerous FEM programs
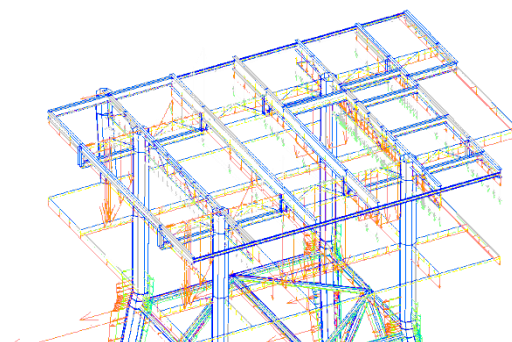- Single data file for all analyses
- Powerful post-processing capabilities

Modeling

- The user interface includes a model browser and 3D view window allowing very efficient model set-up and easy verifications
- Advanced display options available from toolbar: numerous lighting options, meshing edges, profiles shape, eccentricities, releases, etc…
- Project-oriented model files including all data and parameters required to run several analyses from the same file
- Automated mesh of complex lofted surfaces
- Tools to generate tubular intersections, code check parameters, boundary conditions, etc…
- Management of sub-models for local verifications
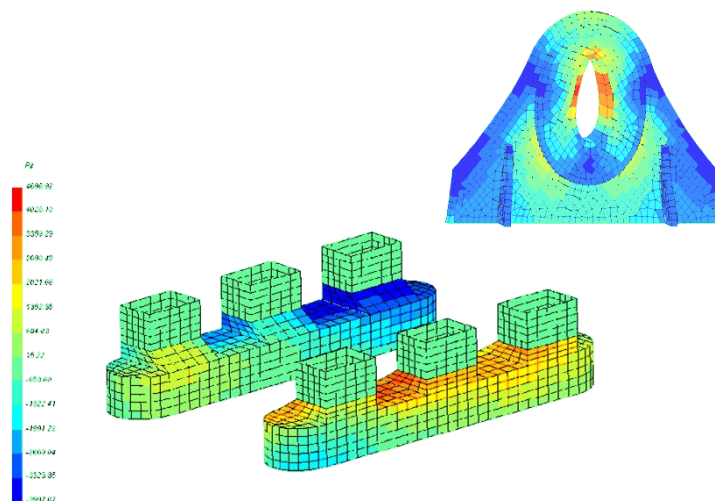- Management of hydro-structure coupling for static and dynamic analyses

Verification of models

- Pre-defined mesh checks (superposed nodes, twisted elements, alignment of beams, crossed beams…)
- Export to PDMS and DXF formats for sharing with draught-persons
- Automatic verification of consistency of models prior to calculation
- Display of calculation data (buckling length, unsupported length, density…)
- Verification of MTO, load case resultants…

Post-processing

- Display of joint displacements, forces stresses in elements, code check usage factors
- Display of deformation, modal shapes
- Envelope of any variable for sets of load cases
- Macro-programming for specialized post process

Technical support

Best in class client support is provided by emailing: nso-isymost@principia.fr. Our team of experienced engineers will be pleased to answer all your queries.