AGX WIRE
DATASHEET

algoryx
MULTIPHYSICS AND 3D SIMULATION

*AgX Dynamics/Wire is a proven technology for fast, accurate and stable simulation of **wires**, **chains**, **cables** and **ropes**. 7 out of 9 leading training simulator suppliers choose AgX Dynamics/Wire before other alternatives.*

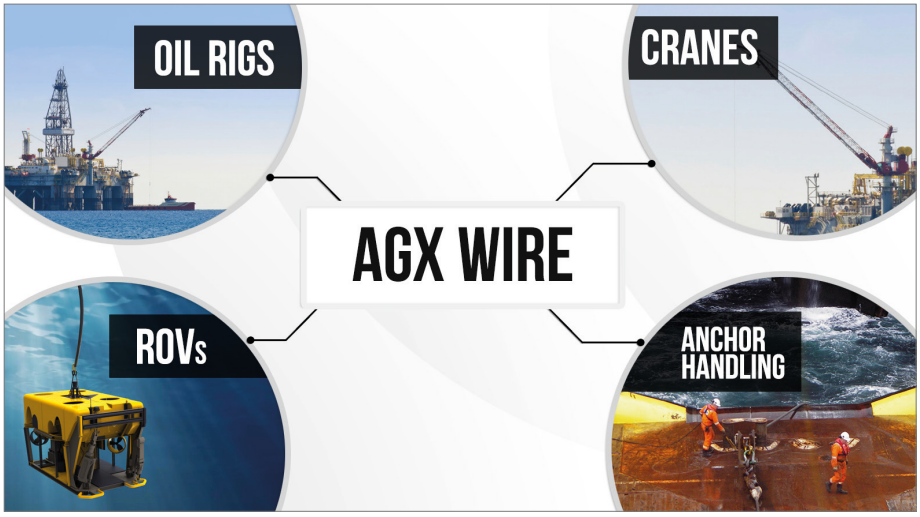
FEATURES AND TECHNOLOGY

- ✓ Heavy lifting
- ✓ Interactive
- ✓ Adaptive resolution
- ✓ Winch models
- ✓ Real-world material properties
- ✓ Tension measurements
- ✓ Unconditionally stable model
- ✓ Interactions with dry frictional contacts
- ✓ Multi-core parallelism
- ✓ Handle extreme mass ratios
- ✓ Supports large scale scenarios

- ✓ Integral component of general multibody dynamics
- ✓ Fully integrated with AgX Dynamics and all components such as hydraulics, terrain, vehicle dynamics etc

PERFORMANCE AND PRECISION

AgX Dynamics' wire module is streamlined for accuracy, numerical stability and numerical performance; and can handle almost any mass ratio.
The novel approach to adaptive resolution lumped element wires, enables interactive simulations of large scale wire systems suitable for heavy lifting cranes, cooperative anchor handling-, towing, offshore seismic surveying operations and more. With stable frictional contacts, wires can interact with other geometries and wires.



Examples of successful application areas for AgX Wires.

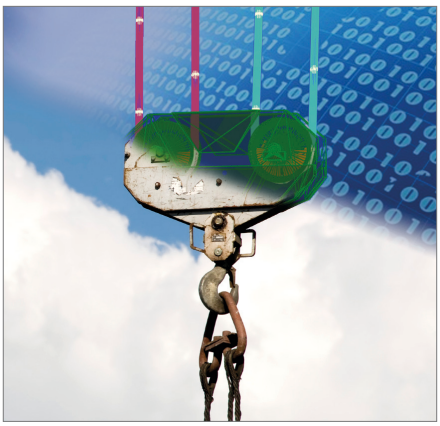
78% *of the world-leading offshore simulator suppliers confirm Algoryx core technology for industrial use.*

CUSTOMER BENEFITS

- ✓ Thoroughly tested and validated technology that minimize your risks and elevates your products and projects to new heights.
- ✓ Join the growing list of customers which already harness Algoryx's competence and experience in the simulation domain.
- ✓ Get a competetive advantage with Swedish groundbreaking AgX Dynamics technology.

TECHNOLOGY USED BY

Kongsberg Maritime, Oryx, ABB Cranes, ABB Robotics, AIST, ANSYS SpaceClaim, Atlas Copco, Canada DRDC, Cargotec, Daewoo DSME, Fugro, Heerema HMC, Komatsu, GlobalSim, LKAB, MacGregor Cranes, MARIN, NTNU, OSC, SEA, Siemens PLM, SMD, SMSC, Statoil, Subsea 7, Tree C, Volvo CE, Volvo GTT



Close the gap between the simulated scenario and reality.