

EnginSoft is a premier consulting firm in the field of Simulation Based Engineering Science (SBES) with a global presence. It was founded in 1984, but its founder and initial employees had been working in SBES since the mid '70s. Throughout its long history it has been at the forefront of technological innovation and remains a catalyst for change in the way SBES and CAE technologies in general are applied to solve even the most complex industrial problems with a high degree of reliability.

Today, EnginSoft is comprised of groups of highly qualified engineers, with expertise in a variety of engineering simulation technologies including FEM Analysis and CFD, working in synergic companies across the globe. We are present in Italy, France, Germany, the UK, Turkey and the U.S.A. and have a close partnership with synergic companies located in Greece, Spain, Israel, Portugal, Brazil, Japan and the U.S.A.

EnginSoft works across a broad range of industries that include the automotive, aerospace, defense, energy, civil engineering, consumer goods and biomechanics industries to help them get the most out of existing engineering simulation technologies.



**ITALY**

[info@enginsoft.com](mailto:info@enginsoft.com)

**FRANCE**

[info.fr@enginsoft.com](mailto:info.fr@enginsoft.com)

**GERMANY**

[info.de@enginsoft.com](mailto:info.de@enginsoft.com)

**UNITED KINGDOM**

[info.uk@enginsoft.com](mailto:info.uk@enginsoft.com)

**TURKEY**

[info.tr@enginsoft.com](mailto:info.tr@enginsoft.com)

**USA**

[info@enginsoftusa.com](mailto:info@enginsoftusa.com)



[www.enginsoft.com](http://www.enginsoft.com) | [info@enginsoft.com](mailto:info@enginsoft.com)



DATA SHEET



**FLOWVEX**<sup>®</sup>  
SIMULATION ENVIRONMENT

System Level Thermal-Fluid  
Flow Simulation Software

Flownex® Simulation Environment delivers technology that enables you to study how systems will behave in the real world, where fluid is the driving factor. Flownex® system simulation relays the overall effect of changing specific properties on components, allowing clients to examine extensively all possible variations in the design and optimization of systems.

Flownex® SE determines pressure drop [flow] and heat transfer [temperature] for the connected components of a complete system in steady state and transient, e.g. pumps or compressors, pipes, valves, tanks and heat exchangers.



WATER RETICULATION



POWER GENERATION SYSTEMS



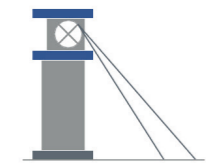
RESEARCH & DEVELOPMENT



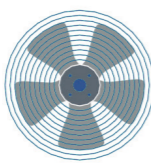
SHIPPING & AEROSPACE



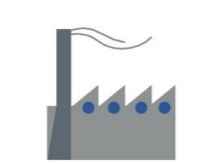
OIL & GAS SYSTEMS



MINING SYSTEMS

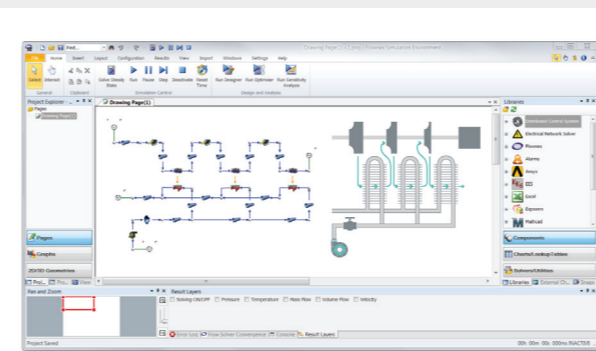
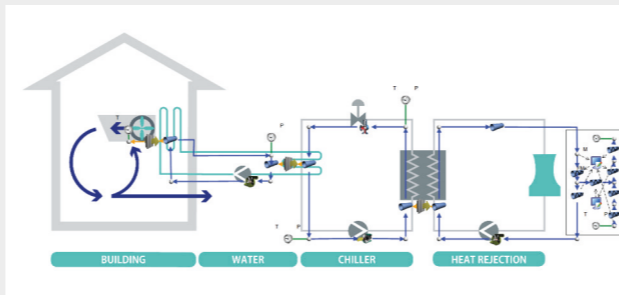
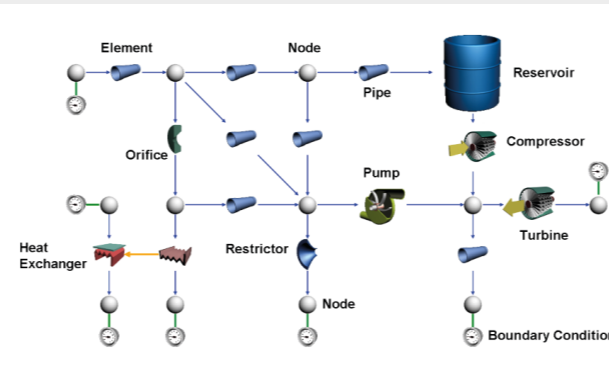
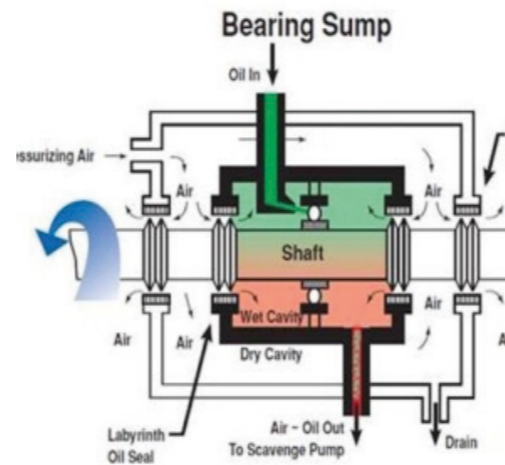


HVAC-R SYSTEMS



PROCESS SYSTEMS

Flownex è un prodotto  
**FLOWNEX**  
SIMULATION ENVIRONMENT



## System Level Thermal-Fluid Flow Simulation Software

### Analysis

- ✓ Simulation
- ✓ Performance assessment
- ✓ Modification assessment
- ✓ Fault root cause assessment

### Design

- ✓ System sizing
- ✓ Component sizing
- ✓ Determining operating ranges
- ✓ Flow, temperature, pressure, power consumption, etc
- ✓ Testing of control philosophy

### Training

- ✓ System behavior examination
- ✓ Performing basic flow and heat transfer calculations
- ✓ Thermohydraulic principles and properties referencing

