

We'll show you!

DYNAMIC SIMULATION

of compressor and turbine systems



Our first principle models merge control technology and process technology – including fluid dynamics, real-gas thermodynamics, rotational mechanics and heat transfer – into the digital world. Explore and understand the dynamics of your closed-loop control system, even in real-time.

ONE TOOLBOX –
MANY OPPORTUNITIES:

SAVE TIME AND COST

INCREASE EFFICIENCY

REDUCE DOWNTIMES

MAXIMIZE SAFETY

MINIMIZE RISK

Virtual Commissioning

See your machine virtually running during FAT @ AviComp test center.

We are using a dynamic real-time model of your machine for testing the automation system. Also dangerous situations can be tested under conditions close to reality. In this way you save time and costs during hot commissioning.

Instrument Engineering

A simple equation: bad actuators = bad control!

We advise you on the selection and configuration of actuators. This allows you to ensure the best dynamics and the optimal control performance in your plant. The result: Reduce process interruption and increase machine + plant availability!

Analysis

Minimize the technical risk, find opportunities for optimization and increase the efficiency of your plant!

We are using a virtual representation of your plant to carefully examine and understand the dynamic interactions between machine and control.

Diagnosis

If process interruptions occur we find and eliminate the root cause – based on a virtual representation of the incident.

In doing so, we analyze the dynamic interactions between the plant and the control system. As a consequence, you save cost by avoiding unplanned downtimes.

Training

The control-oriented flight simulator for your plant!

Using our dynamic simulation the normal plant operation as well as dangerous situations can be trained.

The advantage:

No damage will occur...