



# Virtual Engineering ...

... Engineering Services for the Industry (Rotating Machinery)

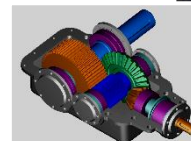
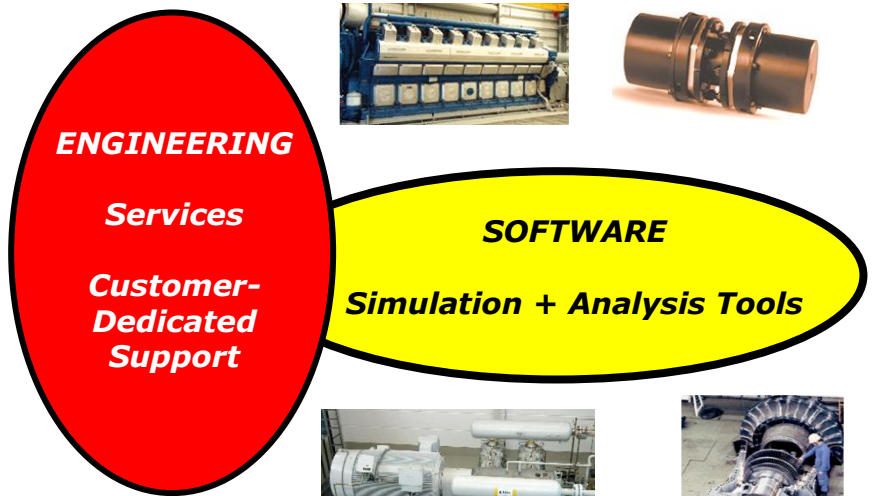
## Computer Simulation of Drive Systems (Drivelines) in Industrial Applications (Rotating Machinery)

### Customer-Dedicated Engineering Services

Application and Distribution  
of User-Friendly Software  
for PCs (Windows 10 and later)

Laschet Consulting is specialist in computer simulation technology. Due to longterm experiences in the simulation of complete drive systems, we offer a professional customer **CAE Service for Engineers** worldwide including consultation, analysis, and computer simulation of **TORSIONAL & LATERAL VIBRATIONS IN ROTATING MACHINERY**:

- **Turbomachinery**
- **Compressors** (all types),  
**Pumps, Fans/Blowers/Ventilators, Generator Drives**
- **Vehicle and Ship Drivelines** (with E-drives or all types of engines)
- **Drive Systems in Aviation & Aerospace Applications**
- **Drives with Couplings, Clutches, Gear Stages, Universal Shafts, E-Motors, Reciprocating Engines**
- **Test Rig Optimization** considering dynamic effects
- **Driveline Matching** crucial for design & troubleshooting (measurements, field testings, and machine diagnosis)



Our **CAE Service** provides the customer with a project-oriented analysis and interpretation of vibrations caused by external or internal excitation or parametrically excited disturbances. Nonlinear characteristics like backlash or torque-angle-hystereses can be taken into account, too. In order to meet all customers' requirements, **Laschet Consulting** uses and distributes high-sophisticated simulation software in close cooperations with software & engineering companies like RBTS, Inc., USA with the rotordynamic software **ARMD** ([www.rbts.com](http://www.rbts.com)).

We present "**Service for Engineers**" regularly at international conferences and exhibitions: ASME, POWER-GEN, SAE, IMechE, VDI, HdT, EFRC, etc. Please also visit our **International Rotordynamic Seminars** in close cooperation with our partner RBTS, Inc., USA.



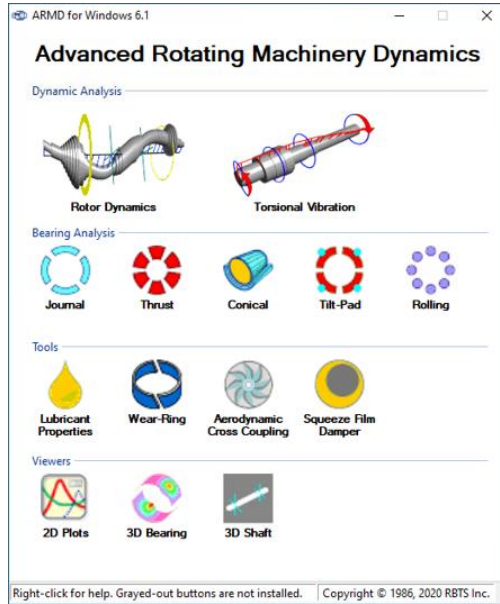
**Measurements and field testings** are done via our cooperative partners worldwide. In all these cases we join the engineering results and provide a complete customer engineering solution including CAE and test results.

Online Trainings  
Online Short Courses



## The Professional Engineering Service ...

... supported by RBTS' simulation software **ARMOD 6.1** – software & service available by *Laschet Consulting*



ARMOD consists of four main modules:

- Rotor Dynamics
- Torsional Vibration
- Lubricant Performance
- Bearing Analysis

With a variety of features, including:

- A user-friendly interface
- Advanced project and file management system
- Graphics/text capabilities
- Intermodule communication and data exchange

