

AROS Hydraulik GmbH standardizes its computations with Mathcad

AROS is among the leading manufacturers of hydraulic components. It manufactures units and cylinders for general machine and plant construction as well as for a series of other industry branches.



Criteria that decide purchasing decisions:

- For computing and designing its hydraulic cylinders, AROS Hydraulik GmbH looked for a tool that was easy to use

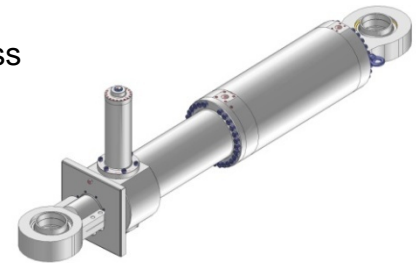
Areas of application

Guided by INNEO Solutions GmbH, AROS uses Mathcad for various tasks in the design area:

- Computation/design of screws, as well as their strength and tightening torque
- Computations for the strength as well as, for example, the minimum required cylinder thickness
- Thread length computations for bolted guides and pistons
- Second order buckling computations for long cylinders

Results

- By using Mathcad, the computations could be standardized
- The computations are now clearly presented and the formula structure is clear



" Mathcad makes it possible for designers to prepare clear and well documented computations."

Markus Schuster, Design Department, AROS Hydraulik GmbH, Germany