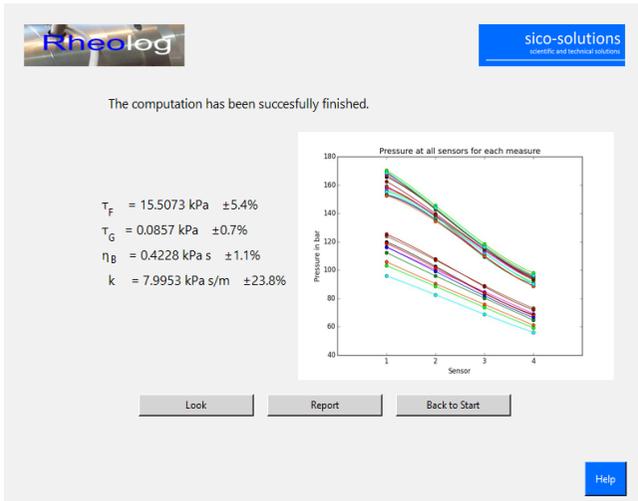
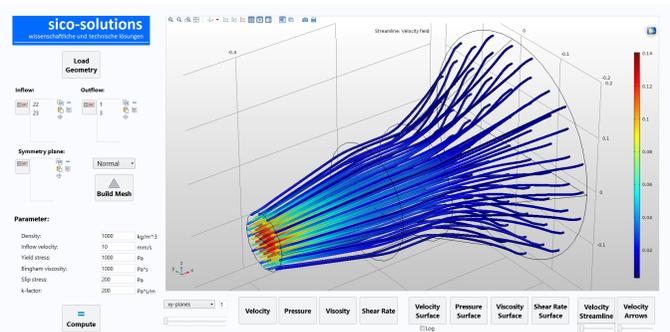


Rheopress



Rheolog



Rheosim

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Contact us.

We are looking forward to be challenged by you.

sico-solutions
scientific and technical solutions

Rheolog
Determination of
material parameters
of ceramics

Simulation

Innovation

Research

Development

Rheolog

The software **Rheolog** in combination with the rheometer **Rheopress** enables the determination of characteristic material parameters of non-Newtonian materials with visco-plastic properties. These are among others technical ceramics, polymers or metal powders. The parameters constitute definitely the visco-plastic material behavior. Especially the set-up at the walls is explicitly dissolved.

All four parameters (yield stress, Bingham viscosity, wall yield stress and k-factor) are measured with only one measuring set-up on the **Rheopress** simultaneously. One measurement lasts only half an hour. To every measurement an individual measurement report is created, which is easy to protocol. The handling is simple and intuitive. The input screen and the presentations of the results are user-optimized, additionally they can be customized to your individual needs.

There are various possible applications, i.e. in the material development or in the delivery control.

Enhance your testing, perform purposive experiments and save costs and time using **Rheolog**.

Rheopress

The **Rheopress** is an innovative rheometer developed by sico-solutions. **Rheopress** consists out of a press, a special shaped measurement die and an SPS-device. In the measurement die the pressure and the velocities are recorded along the extrusion way. The recorded data are analyzed by **Rheolog**.

The measurement procedure can be controlled manually or fully-automatic. The handling is easy and easy to learn.

The **Rheopress**, produced by LOOMIS PRODUCTS, has an integrated high-class vacuum System and a digital display of the extrusion pressure, the velocity of the ram and of its position. In an internal storage of **Rheopress** you can program and access different measurement processes. Optional, connections to production data acquisition and a heater to measure materials at higher temperatures are available.

Rheopress can be used for small series production or for other laboratory or testing applications by simply exchanging the measurement die. Thereby, the press can be used at any extrusion angle.

Contract measurement

Are there any problems with single materials, **sico-solutions** provides contract measurements. The measurements can be performed in our laboratory. Furthermore, due to the compact design of **Rheopress**, the measurement device is transportable and the tests can be performed directly in your facility.

Rheosim

You want to use the gained parameters instantly to test your developed extrusion devices or in-time delivered materials and compounds virtually? Use **Rheosim**. This is an interactive easy-to-use simulation platform to calculate the fluid dynamics in your newly designed die. **Rheosim** enables a disruptive specific optimization of the die shape and the extruded material. Comprehensible plots show a revealing view into the die and the physical and technical mechanism. It inspires the creativity of the engineers, shortens the development time and cuts the number of prototypes dramatically. **Rheosim** can be used within your company or in the cloud.

Speed up your innovation process with **Rheosim**.