

Compre Drive

Force
•
Temperature
•
Precision

Solid state electrochemistry under active force control
- a new generation of laboratory press systems -



➤ **Force good results!**

The CompreDrive applies variable forces between 0 and 75 kN to the sample.

➤ **Keep the pressure up!**

The applied force is kept constant with unprecedented accuracy for as long as required by the active regulation system.

➤ **Connect with your sample!**

Specialized sealed measuring cells allow precise electrochemical measurements of sensitive samples under force control.

➤ **The heat of the moment!**

Fully automated, active temperature control provides even more possibilities for material characterization!

rhd  instruments
flexible cell solutions

Supported by:



on the basis of a decision
by the German Bundestag



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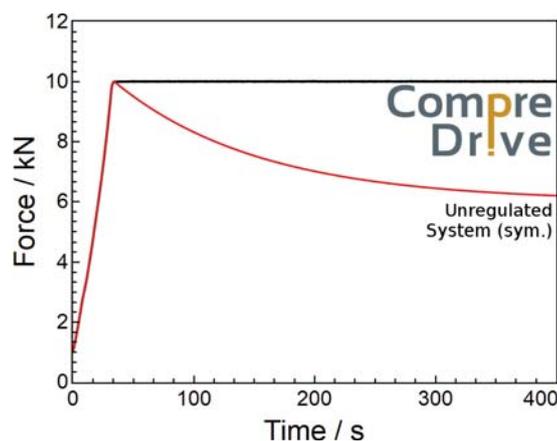
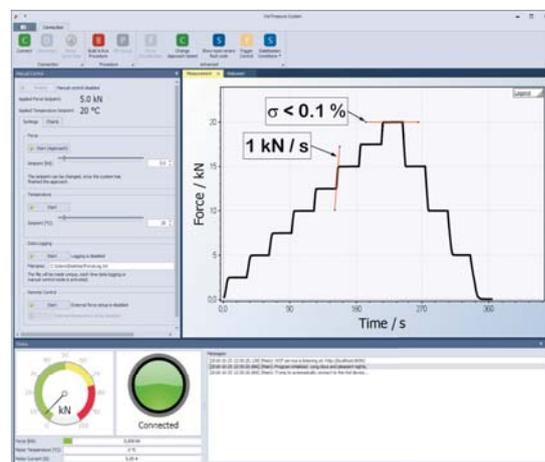


➤ Force control with high precision

The CompreDrive uses a high-precision servo drive to apply a set force to the sample. It is capable of both high speed and a minimum step width of under 10 nm, providing unprecedented accuracy.

➤ Active force control

While ordinary presses drift away from the setpoint after the force has been applied, the CompreDrive's active control loop keeps it constant for as long as required.



➤ High-pressure electrochemistry

A specially designed electrochemical measuring cell allows electrochemical characterisation of materials under increased pressures of over 5000 bar in a sandwich-type configuration.

➤ Sensitive samples

The measuring cell is airtight and protects even the most sensitive samples from the atmosphere.

➤ Specifications

Drive type	Central lifting spindle
Maximum force	75 kN
Dimensions	167 x 81 x 58 cm
Total Weight	220 kg
Total deformation @ max. strain	0.152 mm
Drive distance resolution	< 10 nm / step
Position repeat accuracy	+/- 50 µm
Maximum total cell height	135 mm
Default sample height	<= 1 cm
Default sample diameter	12 mm

For questions, quotes and orders, please contact us:

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