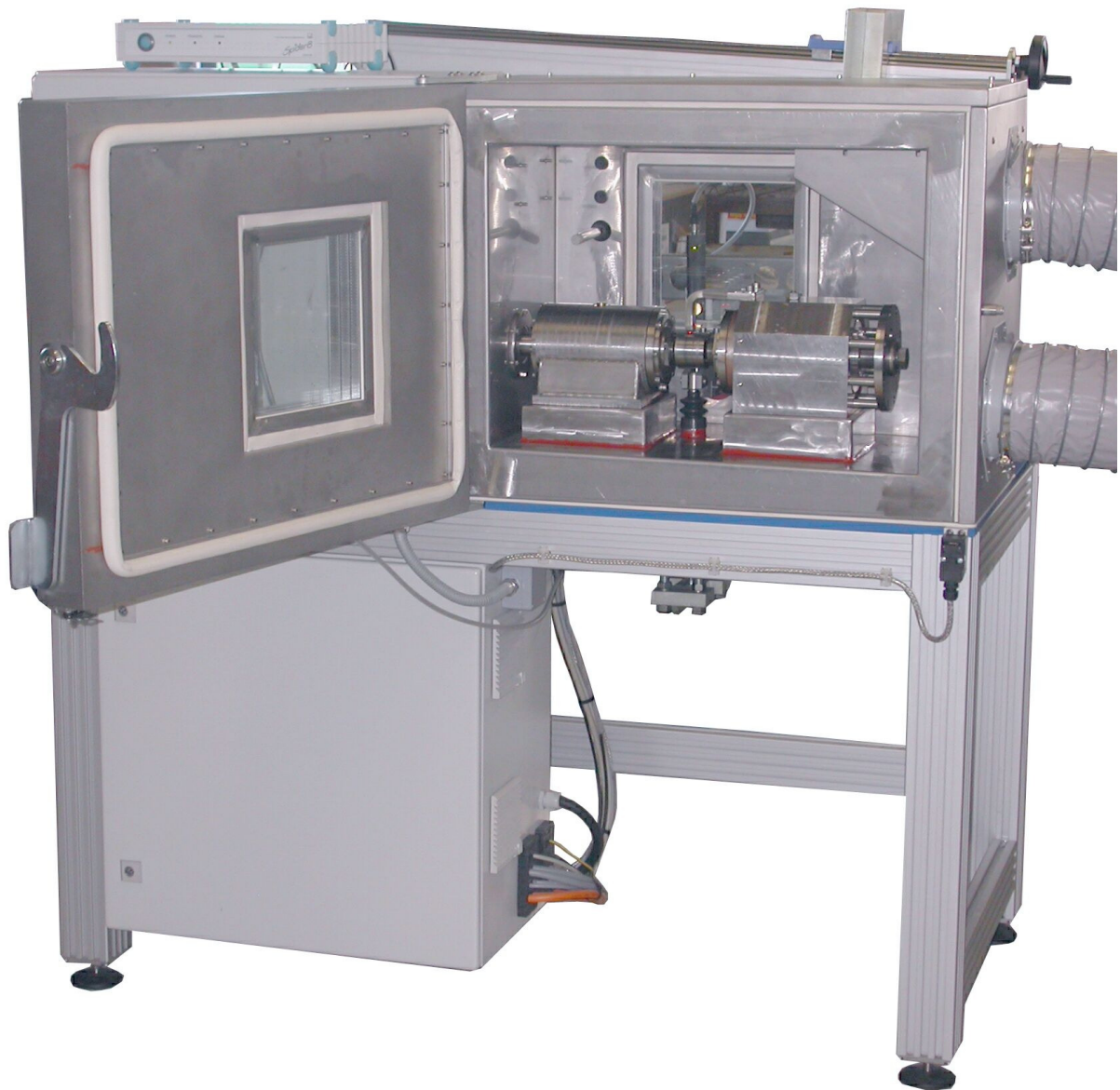


Friction Test Stand for Examination of Pin - Cylinder Pairs under Climate Impact



Consisting of:

- Heat insulated test space
- Storages, drive unit with servo motor on stable base plate; with the test space springy supported by a table
- Load unit with weights; adjustable; optionally with electric adjustment for changing the load during the test

This test stand is used for examining cylinder – pin pairs in the range of sparse wear. The total wear is limited to 2.5 mm of which 1.5mm can be apportioned to the cylinder. The speed of the friction, normal force, temperature and humidity can be varied continuously within the ranges stated below.

The actual testing facility is situated in a climate controllable test chamber and the test can be watched through a window in the door.

The test stand is delivered completely assembled. The base machine can be enhanced with additional accessories to meet different testing requirements. Such accessories are e.g. external climate control units and protective devices. The sample holder can be adapted to customers needs and requirements.

Technical data

Fields of Application	Metallic cylinder & pin pairs
Samples	Cylinder: $\varnothing 50 \times 40$ Pin: up to $\varnothing 8$ mm or 8 mm x 8 mm; length ca. 20mm; Measurable wear length ca. 2 mm
System Configuration	Measured value acquisition via PC
Parameter Limits	Normal force 2000 N Friction force 1000N Friction speed 10 m/s Direction of rotation reversible when stopped
Testing procedure	Accelerated test Long-term test Shutdown time-dependent or at exceedance of measured value limits Climate control before test start possible Scope of data recording configurable
Dimensions in Set-up Condition WxDxH:	1365mm x 720 mm x 1500 mm (without external climate chamber)
Weight	Ca. 400 kg
Optional Accessories	climate chamber; size dependent on needed climate conditions