Fretting Test Bench **BigFret**



Expert Testing with an Eye for Detail



ON THE TRAIL OF TRIBOOXIDATION

The BigFret test bench enables the highprecision investigation of tribochemical reactions in frictional contact (fretting corrosion / fretting).

MEASUREMENT = ANALYTICS

The directly integrated industrial camera control system allows detailed interval documentation of the operation of the upper and lower specimen.

REALITY OPTIMALLY REPRODUCED

Flexible adjustment options for the test parameters ensure precise simulation of real operating conditions.

BigFret

Contact geometry

Plane-on-Plane, Ball-on-Plane, Cross-Cylinder, Cylinder

on Plane, Larger Sphericals on Plane

Adapter for aligning flat contacts included

Form of motion Stroke & Frequency

Sliding, oscillation 10 - 600 µm; 0.01 - 50 Hz

Load range

Basic version 50 - 2,500 N

Temperature range

Room temperature - 120 ° C

Sensor technology

Frictional force, displacement / stroke, temperature (top

and bottom sample), online image monitoring

Weight range **Dimensions**

Options

+49 1575 6668439

Approx. 95 to 120 kg

230 V; 16 A; 50/60 Hz

1600 mm x 800 mm x 800 mm (H x W x D)

Electrical connection Measuring frequency

Up to 20 kS/s

Extended load range

Online wear measurement

Contact resistance (for metal samples)

Structure-borne noise & ultra-fine displacement

measurement











