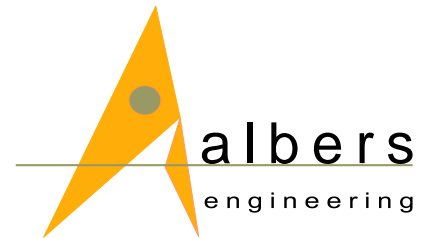


# Roll Stability Tester

RST-T200-P4

According to ASTM D 1831 / ASTM D 8022



**Roll Stability Tester RST-T200-P4**

(The actual appearance of the Instrument may differ slightly from the illustration)



**Test cylinder and roller**

## Description

During this test the lubricating grease sample is submitted to stress similar to the use in a ball bearing. Further tests (i.e. cone penetration) reveal changes in the shear stability of the lubricating grease and allow an assessment of its durability.

The RST-T200-P4 is especially designed for long test runs and temperatures up to **200 °C**.

## Specifications

Rotation speed:	165 1/min
Test temperature:	up to 200 °C
Supply voltage:	220 V / 240 V , 50 Hz (others available on request)
Power:	1,8 kW
Dimensions:	700 x 730 x 690 mm (W x H x D)
Weight:	approx. 70 kg

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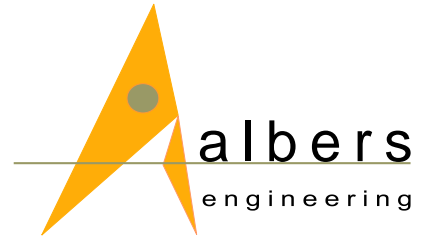


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# Roll Stability Tester

RST-T200-P4

According to ASTM D 1831 / ASTM D 8022



## Features

- Designed for long test runs at temperatures up to 200 °C
- High accuracy digital temperature controller
- Easy-to-use digital timer with two presets allows unattended operation
- Low noise operation
- Uniform heat distribution provided by fan and shielded heaters
- Protection against overheating

## Accessories

- Test cylinders and rollers, stainless steel, incl. gasket
- Tool for closing and opening the cylinders
- Mounting support for test cylinders

## Options

- Adjustable rotation speed of cylinders (100 – 200 1/min)
- Venting hood

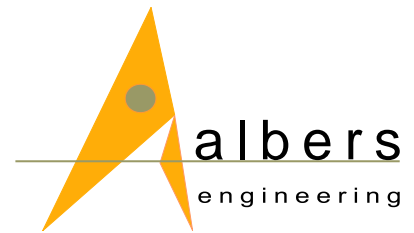
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# Oxidation Roll Tester

Oxi-T200-P2



**Oxidation Roll Tester Oxi-T200-P2**

(The actual appearance of the Instrument may differ slightly from the illustration)

## Description

The Oxidation Roll Tester OXI-T200-P2 submits grease to stress similar to the use in a ball bearing. The basic test principle is identical to the one used for roll stability tests according to ASTM D 1831. Additionally the OXI-T200-P2 offers the option of piping a **controllable flow of gas** through the test cylinders during rotation. Thus an adjustable testing atmosphere in direct contact with the grease sample is achieved.

Combining mechanical stress and adjustable atmosphere creates realistic conditions for examining various grease properties and thereby a unique possibility for **analyzing the degradation process** of grease.

By taking samples and/or using gas analysis a closer look at the chemical processes (oxidation, decomposition, etc.) taking place during the test is possible.

Results obtained by this method may be used for **efficient optimization** of greases.

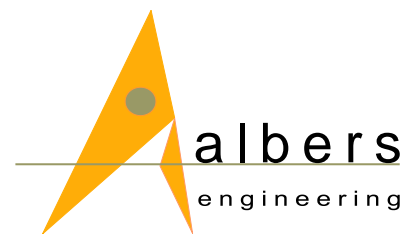
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# Oxidation Roll Tester

Oxi-T200-P2



The Oxidation Roll Tester is especially designed for long test runs and temperatures up to 200 °C. It is also capable to perform ASTM D 1831 test runs using 2 standard test cylinders of the Albers Engineering RST-T200-P4.

During the test period the exterior of the test apparatus is safe to touch at all times even at the highest temperature setting. This is due to the use of high-quality thermal insulation and cooling design.

The test rig is designed to process two grease samples simultaneously. Due to its rugged design the Oxidation Roll Tester is capable to perform test runs of 300 hours or more.

The whole test procedure is controlled by a Programmable Logic Controller (PLC) equipped with a touch sensitive color display. The user interface allows changing test conditions especially rotation speed, temperature and air flow.

## Specifications

Rotation Speed:	100-200 1/min
Air flow:	0-200 ml/min
Test temperature:	up to 200 °C
Voltage:	220 V / 240 V , 50 Hz
Power:	1,8 kW
Dimensions:	700 x 780 x 690 mm (W x H x D)
Weight:	ca. 75 kg

## Features

- Controllable air flow during test period
- Possible analysis of grease degradation processes
- Designed for long test runs at temperatures up to 200 °C
- PLC with touch sensitive color display
- Low noise operation
- Uniform heat distribution
- Protection against overheating

## Accessories

- 2 special stainless steel test cylinders
- 2 Stainless steel rollers (5 kg +/- 50 g)
- Mounting support for test cylinders

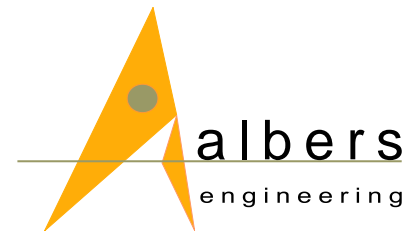
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# Venting Hood

for Roll Stability Tester RST-T200-P4



Venting hood mounted on RST



Venting hood

## Description

The venting hood is an accessory device for the Roll Stability Tester RST-T200-P4. It is used to conduct tests at a stable ambient temperature.

Due to the friction between vessel and roller the air inside the test cabinet is constantly warming up. Therefore a test at room temperature as described in the ASTM method is virtually impossible.

Our venting hood fixes this problem. It increases the test cabinets volume and permanently exchanges the air inside using a small fan.

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