1

BEKK SMOOTHNESS TESTER

For:

For smoothness tests on paper and foils according to BEKK.
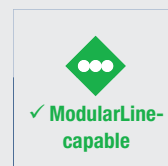
✓ **PAPER**

✓ **BOARD**

MODELS

AVAILABLE MEASURING RANGES

- 50.7 – 48.0 kPa
  (for smooth materials)
- 50.7 – 29.3 kPa
  (for rough materials)

AVAILABLE MEASURING DIRECTIONS:

- Top side
- Bottom side
- Top and bottom side

✓ **ModularLine-capable**

✓ **ProbeNet-capable**

Model with measuring cylinders for simultaneous measuring on the top and bottom side

MOST IMPORTANT BENEFITS

✓ **Easy operation via the inbuilt touch screen**

✓ **Three different measuring volumes choosable**

✓ **Measuring cylinders with special developed rubber plate**

PRODUCT DESCRIPTION

The specially developed ModularLine housing, which comes as standard with user-friendly touch screen and the FRANK-PTI connections, offers an exceptional basis for the high-precision measurement technology of the Bekk smoothness tester. This consists, in essence, of a pneumatic measuring cylinder that is sealed flat against a glass platen with a rubber platen, high-precision sensors, and a vacuum pump with vacuum tank. To prevent wear to the touch screen, the separate start button on the device can be used. The ModularLine smoothness tester can also be used as a separate laboratory device, as well as for profile testing as a module on the ModularLine.

TEST DESCRIPTION

The sample to be tested is placed in the measurement area. On pressing the start button, the measurement cylinder lowers and its weight holds the sample between the rubber platen and glass platen. The vacuum pump creates a partial vacuum of 50.7 kPa within the system. The laboratory device measures the time required for the pressure difference with the environment to reach exactly 48.0 kPa or 29.3 kPa. Then the cylinder returns to the start position. The time measured is displayed on the touch screen in Bekk seconds. For the measurement of very smooth materials, the measurement volume can be lowered to 1/10 or 1/20 at the touch of a button, which lowers the measurement time accordingly. The real measured values are automatically calculated afterwards.

TECHNICAL DATA

DEVICE/INSTRUMENT

- Easy operation via the integrated touch screen
- Measuring area: 10 cm²
- Accuracy: 0.01 s
- Forecast after 10 s
- Measuring volume:
  1/1 (380 ml), 1/10 (38 ml), 1/20 (19 ml)
- FRANK-PTI standard-ports *(see page 6)*
- Compatible with ProbeNet *(see pages 84 – 87)*
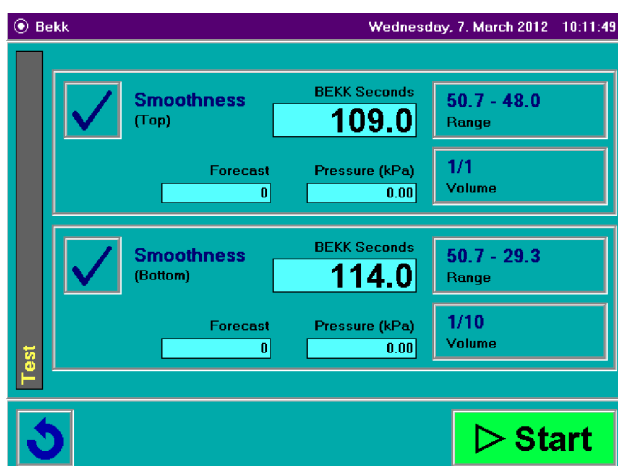- Useable as Modular-Line unit

INSTALLATION REQUIREMENTS

Electrical connection	110 – 230 V / 50 – 60 Hz
Water connection	No
Compressed air	4 – 6 bar

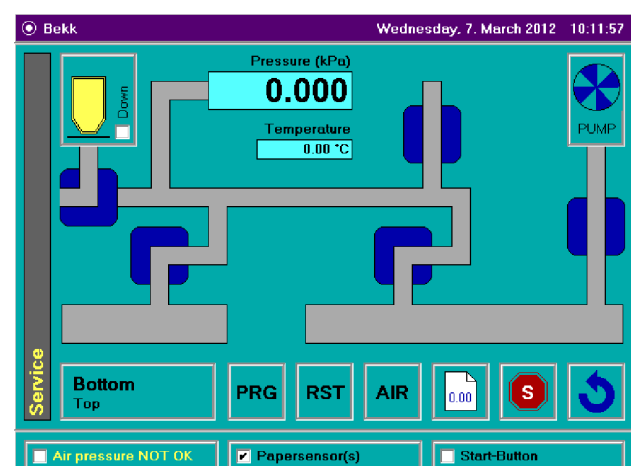### APPLICABLE STANDARDS

- DIN 53107
- ISO 5627
- TAPPI T479

Measuring cylinder with rubber plate for good tightness

Touch screen display for the 2-head Bekk

Service menue