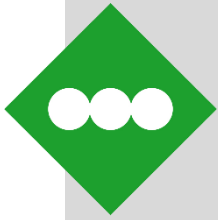


Article No. S62500

Modular Line



Bekk Smoothness Tester

For the determination of smoothness on paper and board according Bekk method.

For:



✓ PAPER



✓ BOARD



MOST IMPORTANT BENEFITS:

- ✓ Easy operation via integrated touch screen
- ✓ Three different measuring volumina adjustable 1/1 , 1/10 , 1/20
- ✓ Messzylinder mit speziell entwickelter Gummi-Abdichtplatte
- ✓ 3 versions available: bottom side, top side, both sides
- ✓ Compensation of barometric pressure

 **FRANK-PTI**
QUALITY TESTING INSTRUMENTS

SUBSIDIARY OF  *Flot-Hansson*

 **M.C. TEC**

Sales and service benelux

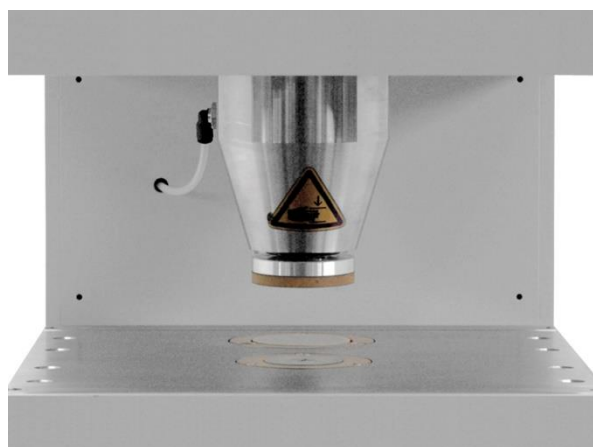
M.C. TEC
Distributiestraat 73
4283JN Giessen, Netherlands
Phone: +31 0183 445050
www.mctec.nl | info@mctec.nl

PRODUCT DESCRIPTION

Bekk smoothness testing is an especially informative technique for determining the smoothness of a sample. FRANK-PTI has developed this measurement principle using high grade materials and precision measurement technology, and it has been trusted by the industry for decades. The ModularLine Bekk smoothness testing device delivers outstanding results, and by extending the measurement area, very smooth samples can be tested within a reasonable time. The automatic prediction is available after just 10 seconds, with informative results.

TEST DESCRIPTION

After inserting the sample and the start of the test sequence, the test mechanism lowers. It then presses on a rubber platen, which presses the sample against a glass platen with a defined force. The integrated vacuum pump lowers the pressure in the system to 50.7 kPa. The device then records the amount of time required until the pressure difference with the surroundings is exactly 48.0 kPa. The time measured is given in Bekk seconds. With very smooth samples, the measured volumes can be altered using the software to 1/10 or even 1/20. This reduces the measurement duration to 1/10 or 1/20.



Bekk – Measuring area

TECHNISCHE DATEN

DEVICE/INSTRUMENT

- Easy operation via integrated touch screen
- Measuring range adjustable
 - 50,7-48,0 kPa (for smooth materials)
 - 50,7-29,3 kPa (for rough materials)
- Measuring surface: 10 cm²
- Accuracy: 0.01 s
- Forecast 10s
- Measuring volumes:
 - 1/1 (380 ml), 1/10 (380 ml), 1/20 (19 ml)

Protection class: 2
Protection degree: IP44

APPLICABLE STANDARDS

DIN 53107	Smoothness Bekk
ISO 5627	Smoothness Bekk
TAPPI T479	Smoothness Bekk
*more standards on request	

MEASUREMENT

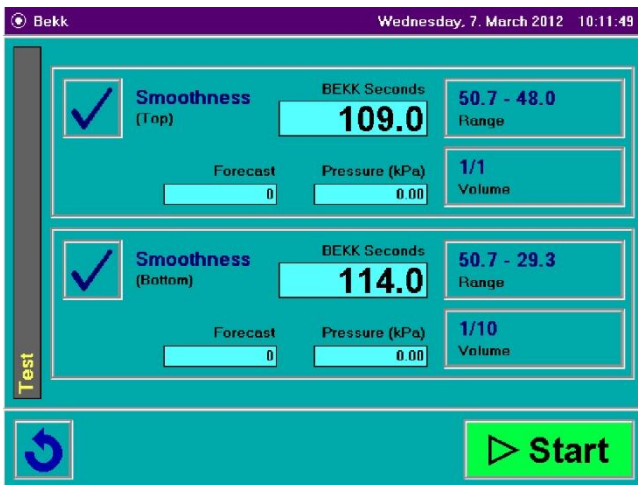
Measuring range:	adjustable -50,7-48,0 kPa (smooth material) -50,7-29,3 kPa (rough material)
Measuring volume:	adjustable -380 ml (1:1) - 38 ml (1:10) - 19 ml (1:20)
Clamping pressure:	100kpa
Measuring area:	10 cm ²
Measuring accuracy:	0,01s
Results:	Bekk seconds [s]
Statistic:	Min. and max. Mean value Standard deviation Variation coefficient

CONNECTIONS

Power:	230V / 50-60Hz
Power consumption:	<80 W
Water:	no
Compressed air:	6 bar Connector for hose 6mm

DATA

RS232:	Data output
Ethernet:	Data output. / MQTT
USB:	Updates / Service
Parallel:	Printer



User interface for 2 measuring heads: top and bottom side

	Messmethode Messergebnis 1 Einheit	Messmethode Messergebnis 2 Einheit	Messmethode Messergebnis 3 Einheit
Maximum	99.00	109.60	118.99
Mittelwert	95.00	105.50	115.19
Minimum	91.00	101.30	111.64
STABW	2.83	2.78	2.54
VK (%)	2.98	2.63	2.21
Anzahl	11	11	11
1	93	101.3	118.99
2	96	109.6	113.59
3	98	104.2	115.13
4	95	105.5	111.64
5	93	105.8	111.95
6	91	103.6	117.07
7	97	109.5	113.09
8	98	102.8	117.89
9	91	103.4	113.83
10	99	108.5	117.69
11	94	106.3	116.26

Statistics view with single results of the measuring series and statistics. Displayed values may differ from the shown picture.

DIMENSIONS

Version 1-2 heads
S625000001-3 **L x H x W**
600 x 600 x 270 mm

Weight: net/gross
Version 1 head
S625000001-2 ca. 35 kg / 72kg

Version 2 head
S625000003 ca. 51 kg / 77kg

ARTICLES / MODELS

- S625000001 Bekk 1 head – Smoothness bottom side (standard)
- S625000002 Bekk 1 head – Smoothness top side
- S625000003 Bekk 2 head – Smoothness top and bottom side

Available Accessories:

- S625001001 Elastomere Disk Ø 52 mm / Thickness 4mm for Bekk bottom side
- S625001011 Elastomere Disk Ø 50 mm / Thickness: 4mm for Bekk top side
- S406900001 ProbeNet Software inclusive one license *requirements explained on request