

Stand Alone



Universal Micrometer

For the precise determination of thickness of paper, board, corrugated board, nonwovens, foil and textile.

For:



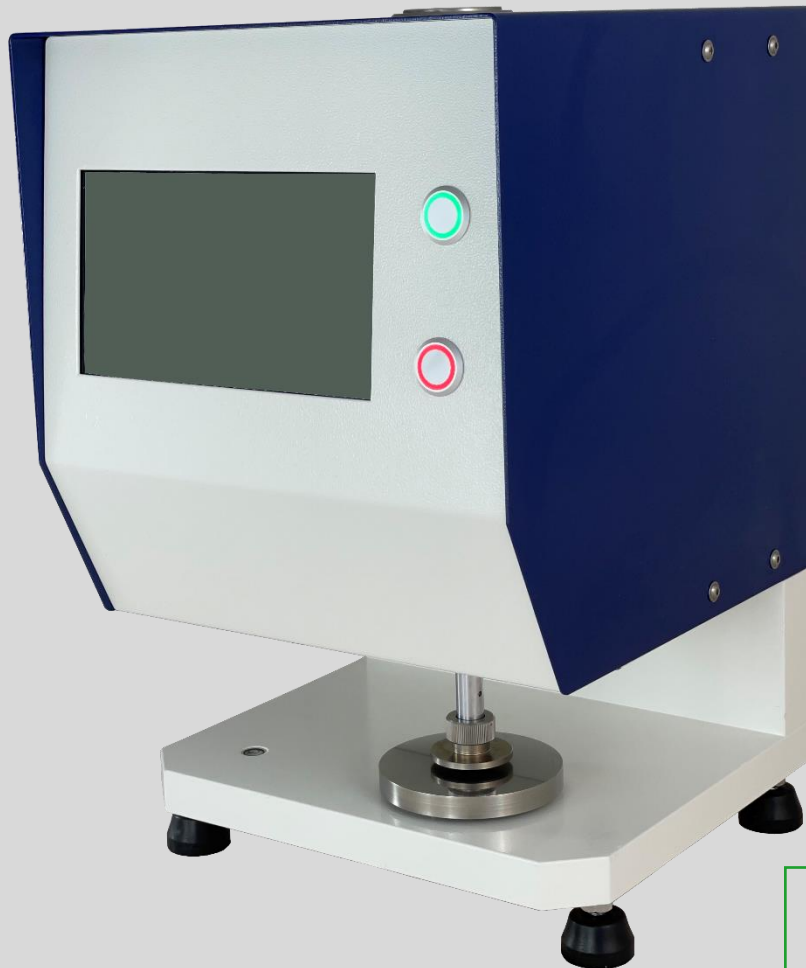
✓ PAPER



✓ BOARD



✓ TISSUE



MOST IMPORTANT BENEFITS:

- ✓ Warp-resistant housing that thanks to its stability ensures exact measurement results
- ✓ The measuring pin and weights are exchangeable which enables the measurement of different materials with a single device

 **FRANK-PTI**
QUALITY TESTING INSTRUMENTS

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 **M.C. TEC**

Sales and service benelux

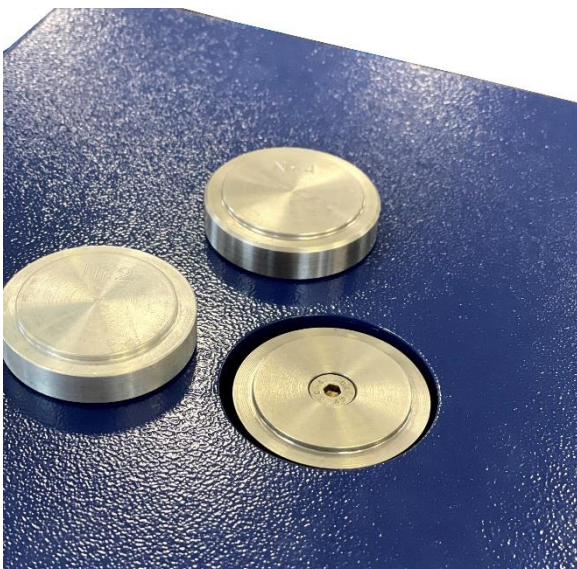
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PRODUCT DESCRIPTION

The universal micrometer consists of a warp-resistant housing, which ensures exact measurements thanks to its stability. On the front of the device there are a digital display and controls, as well as start and stop buttons. The high-precision measurement mechanism is protected by being integrated within the housing and consists basically of a motor-driven lifting mechanism, a measuring pin, and the appropriate weight, which can be simply exchanged if required. This allows a single device to measure the thickness of materials acc. to different standards.

TEST DESCRIPTION

The single or multiple layer sample is placed on the measuring area. The start button is pushed and the measuring pin goes downward toward the sample at the preset speed to apply the appropriate weight to the area acc. to standard. On elapsing of a preset period the high-definition sensor measures the thickness of the sample. Then the measuring pin returns to the start position. The measurement result is displayed on the digital display and saved as statistics. The option exists of switching from single to continuous operation, where the measuring pin moves back and forth continually, allowing several consecutive measurements to be carried out.



Load mass and bearing weights

TECHNICAL DATA

DEVICE/INSTRUMENT

- High resolution digital sensor
- 7" capacitive touch display
- Cycle and single measurements
- Mode for difference measurement
- Easy adaptable access management
- Compatible with ProbeNet
- Available ModularLine Version

APPLICABLE STANDARDS

DIN EN ISO 534, 12625-3
TAPPI T411
*more standards available on request

MEASUREMENT

Measurement range	1 – 20.000 µm
Pole travel	0 – 22.000 µm
Test speed	1-11mm/s / 60-660 mm/min
Sample specification	length/width: - Thickness:0-20mm
Pre-pressure:	51g - 10kg
Contact pressure	variable – depending on pin 0,01 N/cm ² - 40N/cm ²
Measuring pin:	0,20cm ² - 50cm ² + individual pins
Measuring accuracy	± 3µm
Resolution	0,5 µm
Display	±1µm / ±0.001mm / ±0,01 mil
Format	µm / mm / mil (inch/1000)
Contact time	max.1h
Measuring break	max. 60 sec.
Difference meas.	max 72h

CONNECTIONS

Power:	110-230V/50-60Hz
Power consumption:	<30W / <0,03kwh
Water:	-
Compressed air:	-

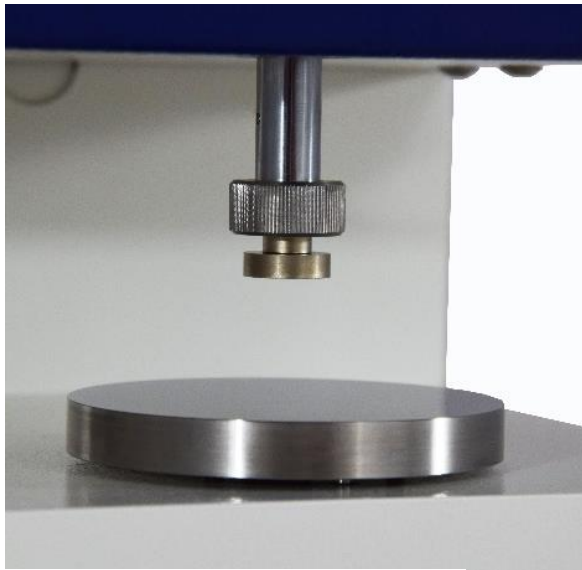
DATA

RS232:	Data output
USB:	Service / updates

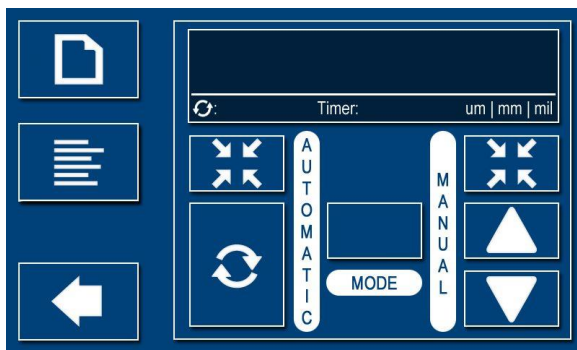


Changeable measuring pins and weights

Article No. S16502



Measuring area and pin and support



Measuring screen with clearly arranged display and control elements.

DIMENSIONS

	L x H x W
S165020002	245 x 370 x 240 mm
Weight:	net/gross
S165020002	35kg / ca. 46 kg

ARTIKEL / MODELLE

S165020002 Universal Micrometer without pin
* more materials, pins, measuring heights on request

POSSIBLE COMBINATIONS

Paper acc. Tappi T411

Available measuring probes and support weights
2cm² ca. 1.0kg 10N

Paper acc. ISO 534

Available measuring probes and support weights
2cm² ca. 2.0kg 20N

Board acc. ISO534

Available measuring probes and support weights
10cm² ca. 2.0kg 20N

Tissue acc. ISO 12625-3

Available measuring probes and support weights
10cm² ca. 0.2kg 2N



We produce all types of measuring pins and adapt them individually to your needs!
(Size, shape, weights)

Pins			Surface	Diameter	Weights	
S165021001	Tissue	DIN EN 12625-3	10cm ²	35,7mm	S165021016	1989g
S165021003	Foil, leather	DIN53326/53	0,785cm ²	10mm	S165021017	76,5g
S165021004	Foil R30	DIN 53370	r 30mm	6mm	S165021018	458,9g
S165021005	Art: leather	DIN 53353	7,069cm ²	30mm	S165021019	124g
S165021007	Textil	DIN EN ISO 5084	20cm ²	50.5mm	S165021036	149g
S165021009	Nonwoven/ tex	DIN EN ISO 9073 EDANA30.4-89	25cm ²	56,42mm	S165021041	357g
S165021010	Paper board	DIN EN 20534 / (DIN53105) ISO053	2cm ²	16mm	S165021043	74g
S165021011	Corrugated	ISO3034 / FEFCO	10cm ²	35,7mm	S165021044	49g
S165021013		TAPPI	2cm ²	16mm	S165021017	56g
S165021014	Textile	DIN 53855 T1	10cm ²	35,7		
S165021037	Paper		2cm ²	16mm		