

MiniProfiler MP50/75

Miniatuized Pickup

breitmeier
A NanoFocus Company

nanofocus®
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Portable Miniature Roughness & Waviness Measurement Device

- Roughness + Waviness**
250 µm - 2 mm
- Adaptable**
Usable on various workpiece shapes
- Versatile**
Wide variety of measurement tasks
- Customizable**

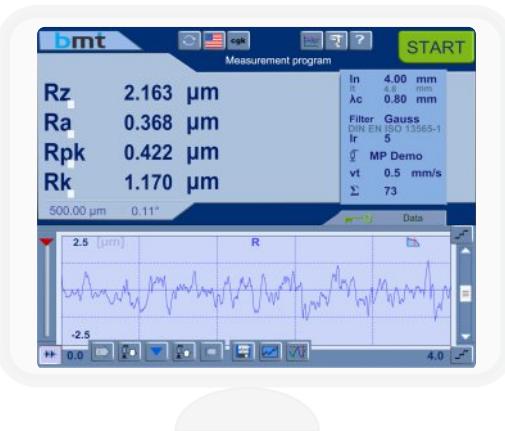
- Easily attachable**

- Stylus protection**

- Quick-change stylus**
60 sec.

- Vibration resistant**

- USB, WiFi, Bluetooth**

The MiniProfiler MP50/75 is a **tactile skidless measurement device** with a measurement distance of 50, 70, or 75 mm.

It belongs to the MiniProfiler product line of Breitmeier Messtechnik GmbH. Since 2001 the company has been designing, developing and building cutting-edge measurement devices and systems in Germany.

Our MiniProfiler product line is available for a **wide range of applications** which require measurement of technical surfaces, such as shafts, grooves on shafts and pistons, camshafts, vent sealing lips, cylinder bores and metalsheet.

for Quality Assurance in Laboratories & on Production Lines



MiniProfiler MP50/75



MiniProfilers

MiniProfiler-C
with camera

MiniProfiler MP15



MiniProfiler MP50/75

MiniProfiler MP15
for CMM or robot

Technical Specification

ISO 3274	Measurement system with reference datum	
Measurement principle	Skidless stylus; tactile	
Reference datum	Precision flat	
Measurement uncertainty	[%]	0.5
Measurement range	[µm]	100; 500; 1000; 2000;
Resolution	[Bit]	20
Stylus tip radius	[µm]	2; 5; *
Stylus angle	[°]	90; 60; *
Measuring distance	[mm]	15; 50; 70; 75; *
Travel speed	[mm/s]	0.1 - 2
Stylus protection	Lift off actuator	
Internal memory	Pickup and service data; measurement programs	
Quick-change components	Stylus; cable	

Standards

ISO	ISO 4287; ISO 13565-2; *
Other standards	Daimler MBN 31007; SEP 1941; JIS B 0610; *
Profile parameters	Pt; Pc; Pv; Py; Pa; Pp; Pmr; *
Waviness parameters	Wt; Wc; Wv; Wy; Wa; Wp; Wsa(1-5); Wa0.8; Wca; *
Roughness parameters	Rt; Rv; Ry; Ra; Rmr; Rp; Rq; Rz; Rmax; dominant waviness; *
Core roughness parameters	Rk; Rpk; Rpk*; Rvk; Rvk*; Mr1; Mr2; R3z; R3max; *
Filters	Gauss; ISO 1562/16610-21; ISO 13565-1; VDA 2008; ISO 16610-31; *

Software

Number of measurement programs	> 1000
Data interfaces	USB 2.0; USB 3.0; RS 232; QDAS; Excel; PDF (configurable); *

Measurement Environment and Dimensions

Operating position	Arbitrary
Operating temperature	[°C]
Dimensions	[mm]
Weight	[g]

* Customizable