

MiniProfiler MP50/75

Miniaturized Pickup

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**

- Connectivity**




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



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	[$^\circ$]	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	[$^\circ\text{C}$] 5 - 35
Dimensions	[mm] 134 x 40 x 46 (without trunk); 158 x 40 x 46 (with trunk)
Weight	[g] ca. 200

* Customizable

MiniProfilers



MiniProfiler-C
with camera



MiniProfiler MP15



MiniProfiler MP50/75



MiniProfiler MP15
for CMM or robot

breitmeier
A NanoFocus Company