

MiniProfiler-C

Miniaturized Pickup

Portable Miniature Roughness & Waviness Measurement Device

Roughness + Waviness
100 µm - 2 mm

Adaptable
Usable on various workpiece shapes

Versatile
Wide variety of measurement tasks

Built-in camera

Easily attachable

Stylus protection

60 sec.
Quick-change stylus

Vibration resistant

USB, Wi-Fi, Bluetooth



The MiniProfiler-C is a **tactile skidless measurement device with an integrated camera**. It captures simultaneous imaging of the surface during the measurement.

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-C



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; *
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
Camera field of view	[mm 2]	Approx. 3.3 megapixel; *

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] 64 x 28 x 42
Weight	[g] 100

* Customizable

MiniProfilers



MiniProfiler-C
with camera



MiniProfiler MP15



MiniProfiler MP50/75



MiniProfiler MP15
for CMM or robot

breitmeier
A NanoFocus Company