

byko-test 8500

The byko-test 8500 film thickness gage has a modular design to accommodate a wide range of applications. Multiple sensor probes are available for maximum flexibility. Coating thickness can be measured on a wide variety of metal substrates: iron, steel, copper, aluminum, zinc, brass, and titanium.

- Illuminated graphical display and keypad
- Easy to use menu
- One-hand operation
- Flip display by 180 degrees
- Multi-language support
- Modular design with exchangeable probes
- Automatic and user specific calibration
- Wireless data transfer to PC (optional)
- Durable, wear-resistant ruby probe tip
- V-groove in probe for measuring cylindrical parts
- Acoustic signal for measurement confirmation

Two models are available for different requirements:

Basic version

With all important functions needed to measure and evaluate the thickness of non-metal layers on metal substrates. Basic statistical functions, memory for up to 100 readings, optional wireless connection to a PC and data transfer to Excel.

Premium version

Enhanced memory functions, batch measurement with up to 13000 measurements in 200 batches, memory for up to 100 custom calibrations, software and wireless data transfer, average zero adjustment for rough substrates, single and continuous measurement modes included.

Ordering Information

Cat. No.	Description
3661	byko-test 8500 B Fe
3662	byko-test 8500 B NFe
3663	byko-test 8500 B Fe/NFe
3664	byko-test 8500 P Fe
3665	byko-test 8500 P NFe
3666	byko-test 8500 P Fe/NFe

byko-test 8500 basic comes complete with:

Instrument ; 2 mm Standard Sensor; 2 Mignon-Batteries 1.5V (AA) (Alkaline); Adapter cable for external sensor; Instruction manual; Certificate for sensor; softbag; carrying case; Zero plates

byko-test 8500 premium comes complete with:

Instrument; 2 mm Standard Sensor; 2 Mignon-Batteries 1.5V (AA) (Alkaline); Adapter cable for external Sensor; Instruction manual; Certificate for sensor; Softbag; Carrying Case; Zero plates; Software; USB-wireless connector incl. Elongation cable



Standards

ASTM	B 499, D 1400, D 1186, D 7091
BS	3900 Part C5, 5411 (3,11)
DIN	50981, 50984
ISO	2178, 2360, 2808, 19840

Technical Specifications

Resolution	0.1 μm 0 - 99.9 μm, 1 μm 100 - 999 μm 10 μm ≥ 1000 μm
Accuracy	± (1 μm + 2%*) 0 - 2000 μm ± 3,5%* > 2000 μm (* percent of measurement value)
Measurement Range	0 - 2000 μm (0 - 78 mils)
Minimum Area of Measurement	Fe: 10 x 10 mm (0.79 x 0.79 in) NFe: 10 x 10 mm (0.79 x 0.79 in)
Minimum Curvature	convex 5 mm (0.20 in); concave 30 mm (1.2 in)
Minimum Substrate Thickness	Fe: 0.2 mm (0.008 in) NFe: 0.05 mm (0.002 in)
Communication	Wireless Connection 2.4 GHz, distance max. 10 m
Temperature Range	Storage -10°C (14°F) to 60°C (140°F) Usage 0°C (32°F) to 50°C (122°F)
Power Supply	2 x Mignon-Batteries (AA) 1.5V Alkali or rechargeable-Batteries (AA) 1.2V
Dimensions	124 mm x 67 mm x 33 mm (4.9 x 2.6 x 1.3 in)
Weight	ca. 120g (instrument with batteries and probe)

Wireless Sensor

Wireless Sensor for areas difficult to access with internal and external sensors. The new wireless sensor for the byko-test 8500 is built for all applications requiring a small sensor without direct connection to the instrument.

byko-test 8500 wireless sensor has a long lasting rechargeable batteries, a broad reach of 12 m and is available as single or dual sensor.

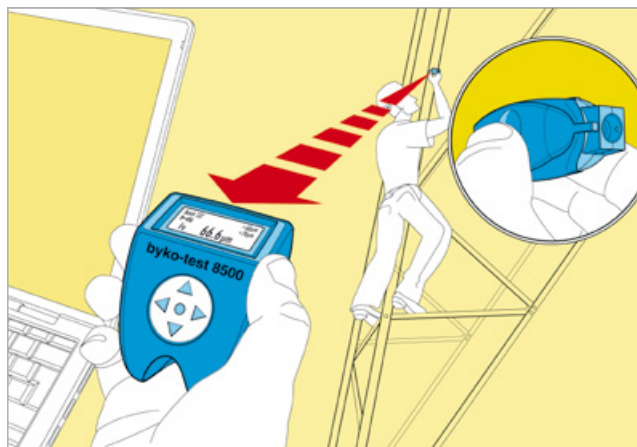
Thickness Standards

For control and inspection purposes individual shims or sets of thickness standards are available.



Certified Calibration Shims

These plastic shims (3740/3741) aid in the calibration of thickness gages on ferrous or non-ferrous metallic substrates. Plastic shims can be used to calibrate on the actual test substrate.



Accessories

Cat. No.	Description
3640	byko-test 8500 B, no sensor
3641	byko-test 8500 P, no sensor
3642	Fe-sensor 2000 μm
3643	Fe-sensor 5000 μm
3644	NFe-sensor 2000 μm
3645	Dual-Sensor 2000/2000
3646	Dual-Sensor 5000/2000
3740	Calibration Shims 25-500 μm
3741	Calibration Shims 11-980 μm
3647	byko-test 8500 Software
3648	USB-wireless connector
3667	Wireless Fe-Sensor
3668	Wireless NFe Sensor
3669	Wireless Dual Fe/NFe Sensor
3649	Probe Cable, 1 meter