

CMI730®

Versatile benchtop gauge for electroplating, galvanising, anodising and paint

Find out more

These gauges are a great complement to our XRF coatings analysers. To place your order contact contact@hitachi-hightech-as.com

MORE INFORMATION

To find out more about the CMI730® or our range of metal finishing gauges, visit

www.hitachi-hightech.com/hha



THE CMI730® PROVIDES ADVANCED PLATING AND PROCESS COATING CONTROL FOR COATING PROFESSIONALS

This easy-to-use instrument with an ergonomic design contains a powerful microprocessor which delivers precise measurements at the touch of a button. Our CMI730® is specifically designed for the plater, coater and quality professional that needs reliability in harsh plating environments. Its display is clearly visible from several feet away and virtually any angle. The CMI730® increases productivity and accuracy during any phase of inspection.

Typical applications:

- | **Platers:** Zn, Cd, Cr, Cu etc.
- | **Coaters:** Paint, powder and anodising.
- | **Quality:** Incoming inspection of coated or plated parts.

The CMI730® is an advanced non-destructive solution for the measurement of coating and plating thickness. It is highly accurate for the following measurements:

- | Non-magnetic coatings over magnetic substrates.
- | Non-conductive coatings over conductive metal substrates.
- | Electroplating over ferrous substrates.

KEY FEATURES

- | Large, bright colour display.
- | Easy switching between measurement techniques.
- | Adaptable magnetic and eddy current probes.
- | Robust design.

**RELIABLE
NON-DESTRUCTIVE
ANALYSIS**

CMI730®

The CMI730® has a flexible design to utilise both eddy current and magnetic induction probes. Despite their small size and simple appearance, our probes are high precision electromechanical assemblies that play a critical role in your ability to measure parts accurately. One of our experts on the Hitachi High-Tech team will gladly help you select the probe that is most appropriate for your specific application based on type of coating, thickness, and the size and shape of the parts measured. Optional probe guides are available for extra precision control.

EDDY CURRENT AND MAGNETIC RANGE OF MEASUREMENT

Eddy Current Mode Range		Magnetic Mode	Range
Non-Conductive on Conductive	0.1-40.0 mils (2.5-1000 µm)	Non-Magnetic on Magnetic Steel	0.1-50.0 mils (2.5-1250 µm)
Zinc on Steel	0.1-1.50 mils (2.5-37.5 µm)		
Cadmium on Steel	0.1-1.50 mils (2.5-37.5 µm)	Electroplated Nickel on Non-Magnetic	0.1-5.00 mils (2.5-1250 µm)
Copper on Steel	0.1-1.50 mils (2.5-37.5 µm)		
Nickel on Steel (electroplated)	0.1-3.00 mils (2.5-75.0 µm)		

SPECIFICATIONS

- | **Magnetic Induction:** Conforms to methods ASTM B499 & B530, DIN 50981, ISO 2178 and BS 5411 Parts 9 & 11.
- | **Eddy Current:** Conforms to methods ASTM B244 & B259, DIN 50984, ISO 2360 and BS 5411 Part 3.
- | **Accuracy:** ± 1 % ± 0.1 µm referred to reference standards.
- | **Available units:** Select from mils, µm, µin, mm, in., or % for display.
- | **Weight:** 6 Lbs. (2.79 kg).
- | **Dimensions:** 11.5" (29.21 cm) (W) x 10.5" (26.67 cm) (D) x 5.5" (13.97 cm) (H).
- | **Display:** Large LCD, backlit, wide angle view.
- | **Statistics:** Mean, high and low, standard deviation, % deviation and CPK.
- | **Charts:** Histogram, trend, x-bar and r-chart.

Our global network of service hubs offer a full range of technical support to keep you up and running.

We are A2LA certified* for coating thickness calibrations and standards which ensures that your CMI730® will be compliant at audit to ISO 17025.

*A2LA is applicable to Hitachi High-Tech Analytical Science America, Inc. only, contact us to learn more.



If you'd like to learn more about the CMI730® gauge visit www.hitachi-hightech.com/hha or email one of our experts at contact@hitachi-hightech-as.com to book a demo.

Hitachi High-Tech Analytical Science

This publication is the copyright of Hitachi High-Tech Analytical Science and provides outline information only, which (unless agreed by the company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or regarded as the representation relating to the products or services concerned. Hitachi High-Tech Analytical Science's policy is one of continued improvement. The company reserves the right to alter, without notice the specification, design or conditions of supply of any product or service.

Hitachi High-Tech Analytical Science acknowledges all trademarks and registrations.

© Hitachi High-Tech Analytical Science, 2017. All rights reserved.

Part number: OIIA/730B/0413

