

1 micron can be the difference



Reliable measurement of coating thickness

thickness before they become a problem,

Hitachi High-Tech Analytical Science has been specifically to give manufacturers precise, accurate and rapid measurement for quality assurance and quality control. We understand that cost is also an important consideration, so we build robust products that last, can be used by almost anyone and enable fast throughput.

Maximum accuracy, minimal waste

Engineers and QA personnel need to know the elemental structure and composition of any metal coatings - at any stage of the production process to avoid wastage.

When the slightest defect can lead to lower quality, or even unusable products, accurate readings are critical. We work with customers all over the world who need to achieve high reliability including those in the automotive, aerospace, medical and industrial mechanical components industries. Our solutions are designed to help you balance accurate measurements with simple, sturdy, and costeffective hardware, helping you get micron-level readings with minimal training and maintenance requirements.



Perfect for your business



RELIABLE HIGH PERFORMANCE

When a single micron can be the difference between success and failure, precision and reliability are essential. Our solutions provide high quality while also minimizing waste and downtime.



VERSATILITY

Loading and removing samples is easy. Thanks to a variety of base configurations, long skinny samples and bulky complex geometries alike can be accommodated across our range.



DURABILITY

Each product in our range has been designed and tested for long life in challenging production or laboratory environments.



LOW COST OF OWNERSHIP

Hitachi products offer low cost of ownership. Built to exacting standards, these instruments are made for maximum up-time to keep up with production.



SIMPLE TO USE

Our analyzers are easy to use and require minimal user training, meaning you can focus resources on critical tasks. Using intuitive screen menus and programmable, automatic sample testing, you'll find simplicity and efficiency reduces the costs of man power and human error.



ONGOING SUPPORT

Our ongoing support service is an important part of what we do. We offer time-critical, affordable support solutions to avoid delays in production and unnecessary downtime.





ADVANCED FEATURES FOR HIGH-VOLUME TESTING

Designed to simplify and accelerate testing of components and assemblies, the FT230 makes it easier to measure more parts in less time. Let your XRF make decisions for you.

The FT230 offers:

- Find My Part™ smart recognition for quicker start-up times.
- Automated sample focusing for increased throughput and ease of use.
- Optional second, wide-view camera for easier feature locating.
- Flexible connectivity for sending results to SCADA, QMS, MES and ERP systems, and diagnostics to Hitachi.
- A large-area, high-resolution SDD for high precision on thinner and more complex coatings.



ANALYZE SAMPLES OF ANY SHAPE: THE X-STRATA920

With three configurations, the X-Strata920 offers flexibility to find your best fit. Choose between a fixed base, motorized and programmable base, or deep well to fit small, tall or long samples to test hundreds of coatings applications.

The X-Strata920 offers:

- Reduced costs of rework and under or over-plating.
- Simple operation with an intuitive software interface.
- Flexibility to expand your applications library.
- Easy reporting and data export.



MICROSPOT ANALYSIS FOR MINIATURIZED ELECTRONICS: FT160

Designed for microspot and ultra-thin coatings analysis, this future-proofed instrument meets the challenges of the increasingly miniaturized world of electronics.

The FT160 offers:

- Polycapillary optics and a high sensitivity SDD detector.
- Measurement of features smaller than 50 μm.
- Superior performance to meet the challenge of semiconductor wafer technology.
- Fast results and simplicity of use to increase productivity.
- A large door and stage to speed up sample presentation.
- A large sample observation window to enable test monitoring.



ANALYZE A WIDE RANGE OF SAMPLES, ANYWHERE WITH A HANDHELD XRF: X-MET8000

Quick non-destructive analysis of heavy and bulky items when it's not practical to use a benchtop instrument.

The X-MET8000 offers:

- Portability, take the 1.5 kg analyzer where the testing is needed.
- Analysis of wide range of single layer coatings and plating solutions.
- Advanced data management and storage service with ExTOPE Connect.
- Robustness IP54 rated (dust and water), and tested to MIL-STD 810G.



Electromagnetic coating thickness gauges

These simple handheld and benchtop gauges use magnetic induction or eddy current technology to measure coating thickness on contact. They are ideal for a range of coatings on metal substrates, including electroplating, galvanizing, anodizing, paint, lacquer, polymer, epoxy and rubber.



THICKNESS GAUGES FOR ELECTROPLATING AND METALLIC COATINGS

To prevent defects and costly reworks, measure electroplated and galvanized coatings over ferrous substrates, with precision.

Our range of thickness gauges for electroplating and metals:

- Achieve reliable results.
- Simplify coating measurement.
- Provide complementary testing capabilities alongside XRF.



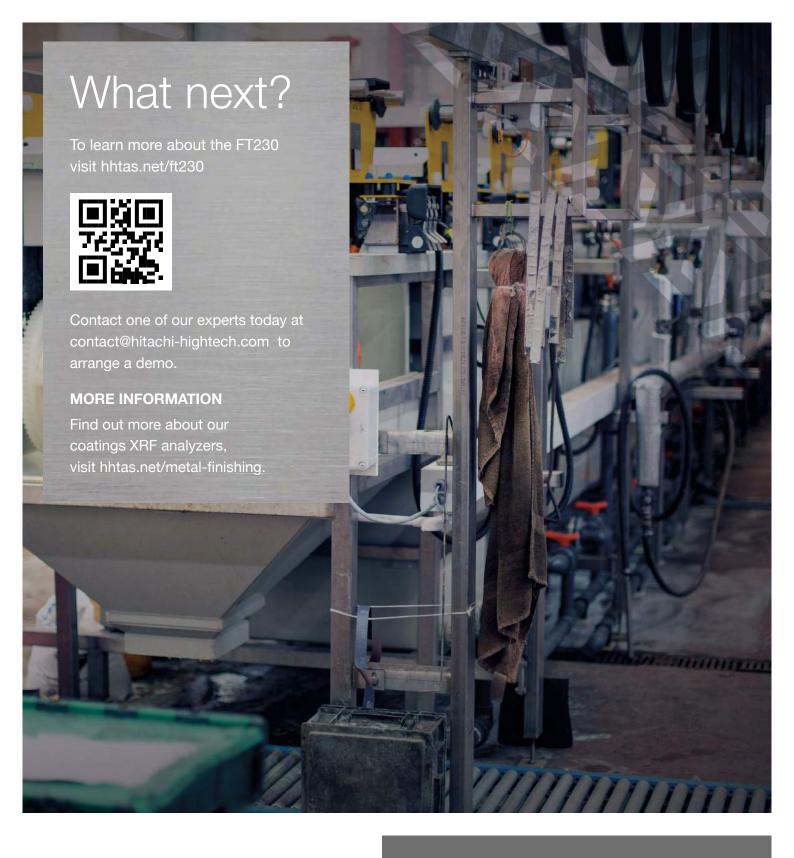
THICKNESS GAUGES FOR INDUSTRIAL AND AUTOMOTIVE PAINT AND POWDER COATING

Rapidly identify coating imperfections that could impact your components' longevity and reliability.

Our thickness gauges for industrial and automotive paint and powder coatings:

- Enable consistent coating thickness.
- Provide flexible testing that measures a range of coatings.
- Ensure accurate measurement.





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