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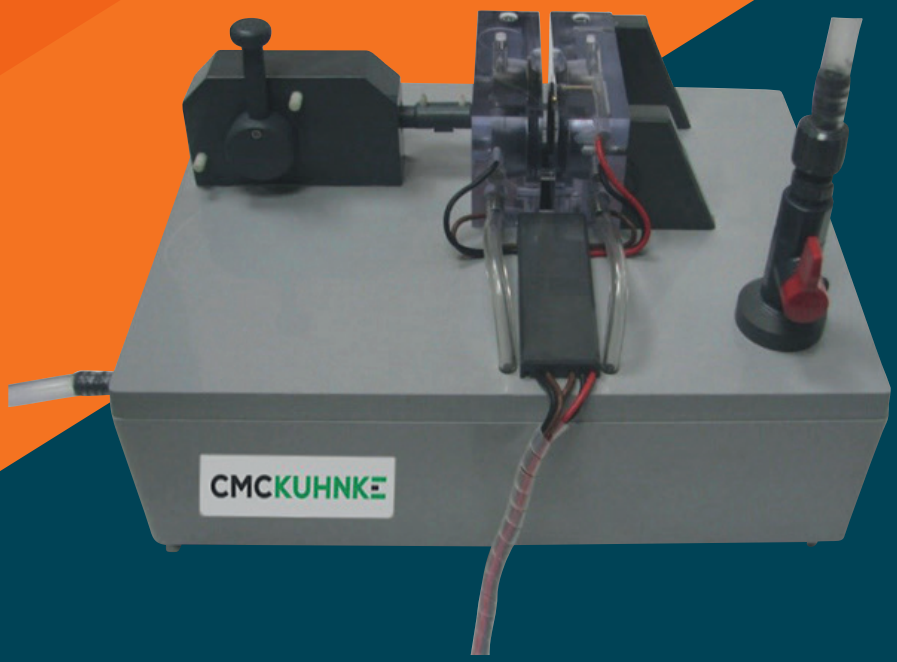
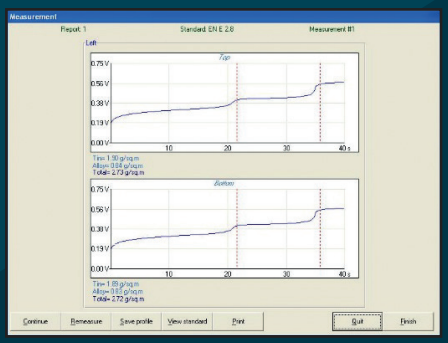


Tin Coating Thickness Measurement

STM-9000 Tin Coating Thickness

The STM-9000 provides accurate tin coating thickness (tin plating analysis) using the Windows™ operating system. It is a computerized coulometric metal thickness gauge for tin plated steel.



INDUSTRIAL PHYSICS

Protecting Product Integrity

The system uses new electrolytic/coulometric hardware and software. These coulometer cells are used by the STM-9000 to inspect the tinplate samples and perform thickness measurement testing on the tin plated ferrum.

The operator inserts the metal sample (strip, or actual sample – coated with tin) into the cell. Electrolytic fluid fills the cell and the cell is closed. Next, the measurement process can proceed, with top only, top & bottom or 3x top and bottom measurements. Profiles are presented for each of the tin plate steel measurements.

Benefits

- **The data can be zoomed in or modified as needed**
- **The system contains preset ASTM, EURONORM, ISO and BSI standards**
- **Only selected standards are presented to increase productivity**

Features

- **Select units of measurement (gr/m² or LB/BB)**
- **Select standards from built-in tables (e.g., ASTM, EURONORM, ISO, BSI)**
- **Create a custom User Standard table**
- **Establish stripping conditions and control its rate**
- **Change process parameters (e.g. current) according to the size of the tested area**
- **Monitor electrolytic solution usage**
- **Control, store, delete, sort or recall reports**
- **Automatic detection of layer transition points**
- **Review graphs of previously measured samples**
- **Produce one-spot or three-spot reports on both 1-spot cells and 3-spot cells**
- **Perform self-test and calibration verification procedures**
- **Perform backup procedures, or review information from backups**
- **Perform standard maintenance functions (e.g., cleaning)**
- **Perform quick measurements (i.e. no standard needs to be selected)**

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