

Digital Coating Thickness Gauges

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Measuring & Inspection



Photo via Wikimedia Commons (Baboon_mummy_-_Museo_Egizio,_Turin_C_2345_01_p018.jpg)

Digital coating thickness gauges measure the thickness of paint, powder and plating on metal with magnetic or eddy-current probes, verifying finishes and corrosion protection meet specification in quality work.

Key Features

- Magnetic and eddy-current modes
- Ranges from 0 to 5 mm
- Fe and NFe substrate detection
- Calibration standards included
- Statistics and data modes

Typical Uses in the Workshop

- Check paint and powder coat thickness
- Verify galvanising and plating
- Measure anodise and coatings
- Quality control in finishing lessons

Safe Operation

1. Calibrate on the bare substrate
2. Place the probe flat and take the reading
3. Repeat several points for an average
4. Check against the specification
5. Record the results

SAFETY NOTES

- Keep the probe clean and undamaged
- Do not use on moving equipment
- Store the gauge in its case
- Replace the batteries as needed
- Calibrate before each session

Maintenance & Consumables

- Clean the probe tip
- Check the calibration standards
- Verify the zero on bare metal
- Store the standards protected
- Service the probe cable

Specification & Buying Notes

A dual-function Fe/NFe gauge with standards covers paint, powder and plating checks. Quality probes read true; cheap ones drift with temperature.