

We quickly measure the thickness of boiler tubes!

FST- GAGE uses ultrasonic technique Electro Magnetic Acoustic Transducer (EMAT). This technique, compared to traditionally piezo electric equipment, generates and receives the ultrasonic wave by an electromagnetic acoustic mutual reaction with the tested material. No gel is necessary because the probe is not in contact with the testing material. This also reduces the demand of cleaning the surface.

Presentation:

The equipment can be used on all objects, that are electric conductive, when a quick and accurate reading of the material thickness is desirable. Normally all types of thinning of the material could be detected. The result from the measuring is very accurate, $\pm 0,15$ mm, and has a very good repeatability.

The equipment consists of:

- ▶ A hand operated unit with the EMAT-probe. After adjusting the parameters the testing is operated from this unit.
- ▶ Ultrasonic and display units where the result is displayed on-line. The display give full control over the quality, and necessary adjustments could be done immediate.

Beyond the presentation of the results given on-line at the display, the result is displayed in tables. To be able to get a more perspicuous view, different colours could be used depending on the reading.

Advantages:

- ▶ Quick testing of large areas
- ▶ High accuracy of measurement
- ▶ Contact less measurement, no gel is necessary
- ▶ Fast and precise evaluation
- ▶ Clear and perspicuous report

Referenses:

Here are some examples of sites where we performed tests with good results:

- ▶ Smurfit Kappa Kraftliner, Piteå, Sweden
- ▶ Stora Enso, Skutskär, Sweden
- ▶ Stora Enso, Hylte, Sweden
- ▶ Södra, Mörrum, Sweden
- ▶ Alholmens Kraft, Finland
- ▶ Sappi Tugela, South Afrika
- ▶ Sappi Ngodwana, South Afrika
- ▶ Fortum, Högdalen, Sweden
- ▶ Vattenfall, Nyköping, Sweden
- ▶ Alto Parana, Argentina

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On the safe side.