

application note



Metal Hardness Testing

Emirates Steel Industries

How does the Equotip 3 help in performing quick, reliable Quality Checks in Iron & Steel Mills?

Emirates Steel Industries is a fully integrated steel plant with three rolling mills for long products. Emirates Steel Industries (ESI), formerly Emirates Iron & Steel Factory (EISF) is a wholly owned government factory. The factory is the largest steel plant in the UAE, utilizing the latest rolling mill technology to produce reinforcing bars for the construction industry.

Application

The Equotip 3 is used for measuring hardness of the incoming cast iron rolls, billets and finished products. We also check the hardness of different parts made locally for us to make sure it matches the specification. Further to this, Equotip 3 is used in failure analysis. On-site tests are necessary for the quick verification and also for surfaces which are not easily reachable.

Customer Quote

“This portable hardness machine is useful particularly for uneven surfaces and surfaces which can't be reached easily. It does not need training to operate as it is very easy to operate and convenient to test to HRC and Vickers Hardness scales.”

Proceq customer since 2007.

Profile

Customer

Established in 2001 to satisfy the growing demand for quality steel products for the UAE's fast developing construction sector, ESI is the only significant domestic supplier of reinforcing steel bars (rebars). The rolling mill has a design capacity of 1.5 million tons of rebar per year and the Company is currently running at full capacity.

Employees

1200 all over UAE

Requirements

- Accurately measure the hardness of the incoming rolls to check and improve quality levels of material supplied by vendors
- To show customers our commitment to our in-house testing professionalism

Proceq Product

Equotip 3 with impact device D

Benefits to the Customer

- Accurate and reliable results
- Easy to use instrument
- Very reliable instrument with no problems for many years.