

application note



Metal Hardness Testing

Hyundai Motor Company

Hardness Testing of Moulds and Engine Components

Hardness testing on metals is a valuable, revealing and commonly employed mechanical test that has been in use in various forms for many decades. Metal Hardness is one of the vital parameters in producing high quality car bodies, engines and other components of the Hyundai Motor Company. Equotip 3 has been an integral instrument which ensures that the quality of parts produced is kept at the highest level.

Application

The Hyundai Motor Company uses Equotip 3 to check the hardness of aluminum cylinder heads and blocks, crank shafts and moulds. Verifying the hardness level is important in order to avoid re-heat-treating parts or components. Hardness measurements with Equotip 3 are accurate and convenient, especially on large parts.

Customer Quote

“Equotip 3 has been a vital instrument for us because of its accuracy and reliability which results in high productivity, time saving, cost reduction and it helps to identify low quality parts that have to be rejected”.

Hyundai Motor Company
Casting, Forging & Plastic Tool Engineering Dept.
- Proceq customer since 1990

Profile

Customer

The Hyundai Motor Company is one of the world's largest and fastest growing automakers. With its headquarters in Seoul, South Korea, Hyundai operates the world's largest integrated automobile manufacturing facility in Ulsan, which is capable of producing 1.6 million units annually.

Employees

75,000 worldwide

Requirements

Verifying the hardness of moulds, aluminum cylinder heads and blocks as well as crank shafts.

Proceq Product

Equotip 3 Unit D and G

Benefits to the Customer

- Accurate and fast measurement
- User-friendly operation
- Time saving
- Reduction in low quality parts
- Higher Productivity