Industry Presentation

Title: **A study over the advantages of automatic hardness testers with milling system for forgings and castings**

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Easydur was established in 1985 with a single goal: to design and build state-of-the-art measuring instruments. It does this by taking care of the entire project, from software development to component production and assembly, to provide the customer with every kind of solution needed, even tailor-made ones.

Abstract:

Easydur, a hallmark of Made in Italy excellence, has specialized for decades in the design and production of hardness testing systems used across various sectors, with a particular focus on forges, foundries, steelworks, and heat treatment facilities.

One of the most revolutionary technologies introduced by Easydur is the Multi-Slot Revolver Head, which offers the possibility to integrate all necessary tools for hardness tests into a single compact unit.

This includes an innovative milling system for surface preparation (RPM and depth can be set), a penetrator, an autofocus camera, a laser pointer, and other accessories such as the compact integrated marking device

Automatic hardness testers with integrated milling and motorized axes offer the following advantages:

- Absolute precision: the surface is prepared by consistently removing all imperfections, without heating up the material
- Speed and efficiency: the integrated milling tool allows the machine to handle every phase of the testing cycle by itself, eliminating the need for the operator to manually grind the surface and saving time

Easydur also produces Universal Testing Machines capable of performing tests with loads up to 3000 kN (300 Tons) which can be equipped with various types of accessories (compression, bending) grips and clamps (manual, pneumatic and hydraulic).