



# MECHANICAL HARDNESS INSPECTOR

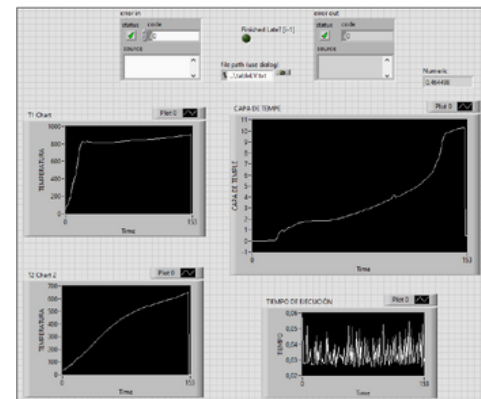
It reduces the material waste to 1% and the energy consumption by approximately 25%.

## SOLUTION DESCRIPTION

Inspection based on Digital TWIN to define the microstructural and hardness evolution during induction heat treatments.

The Inspection based on Digital TWIN is a tool that helps Industrial partners that apply induction heat treatments to define the microstructural and hardness evolution during induction heat treatments.

By leveraging digital twins and RNNs, the production process can be digitized and monitored in real-time, leading to faster analysis and improved decision-making, ultimately enhancing production efficiency.



## MAIN BENEFITS

With this digital twin it's now possible to reduce waste in a real time inspection

- ▶ Automatic Unitary inspection
- ▶ Automatic in-depth hardness estimation
- ▶ Early process failures detection
- ▶ Real-time non-destructive inspection

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The ZDZW project has received funding from the European Union's Horizon Europe programme under grant agreement No 101057404.