

APPLYING MOBILE HARDNESS ON BEARINGS

Destructive, operator-dependent tests limit 100% bearing inspection. SONODUR 3 enables fast, non-destructive hardness sorting with OK/NOK feedback.



THE CHALLENGE

The hardness of bearings directly determines load capacity, wear resistance and service life. Even small deviations can lead to premature failure and costly damage in automotive or industrial applications. Conventional hardness testing methods are often destructive, time-consuming and operator-dependent. In high-volume production, testing every single bearing is rarely feasible, creating potential quality gaps.

THE SOLUTION

SONODUR 3 uses ultrasonic contact impedance (UCI) technology to measure hardness quickly and non-destructively. Maximum and minimum hardness limits can be defined according to specification, enabling precise part sorting. The device provides instant numerical results and color-coded OK/NOK feedback, allowing efficient decision-making directly in production or incoming inspection.



THE RESULT

Bearings are sorted reliably without damaging the component. Testing is fast, repeatable and largely independent of operator influence. The mobile system enables on-site measurements across different geometries, from cylindrical bearings to small precision parts. This improves process reliability, reduces scrap and ensures consistent product quality.

THE PRODUCTS

SONODUR 3

Portable, high-quality and suitable for industrial use - the user-friendly SONODUR 3 sets standards in the field of mobile materials testing



foerstergroup.com



The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.

Headquarters

Institut Dr. Foerster GmbH & Co. KG

In Laisen 70
72766 Reutlingen
Germany

+49 7121 140 0
info@foerstergroup.com