By the way, you already know our industrial grade accredited inspection services?

- Accredited laboratory in line with DIN EN ISO / IEC 17025, to qualify and validate new non-destructive testing (NDT) processes for industrial applications
- Accelerated time-to-market and opportunity for qualified, norm-compliant deployment in industrial applications as well as for complete new in-house developments or custom adaptation of innovative NDT technologies, even in fields where norms have not been established
- Certification of the corresponding quality management system in accordance with DIN EN ISO 9001

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The sole prerequisite for this aside ferromagnetic – and thus magnetizable – material is a preceding calibration, whereby approximation functions are retrieved by means of multiple regression analysis or nearest neighbor pattern recognition that correlate the desired quality characteristics (target values) with the 3MA measurement parameters (inspection quantities).

Benefits

- Fast, non-destructive inspection
- Continuous monitoring and documentation of quality characteristics
- Substitutes destructive testing methods
- Cost-effective production due to reduced costs for testing and consequential costs (caused by nonconformities)
- Complete and comprehensive process monitoring by integration of the 3MA device into the manufacturing process
- Customization according to special requirements (probe, software)

Applications

- Locally resolved determination of hardness, case depth and residual stress state after hardness machining → Detection and characterization of defects caused by the machining process
- Continuous monitoring of tensile strength, yield strength, etc. in steel strips and plates → 100 per cent verification and documentation of steel quality
- Hardness and case depth of induction, laser and nitriding hardening → Reduced setup and change-overtime
- Deep drawing properties and residual stress states of steel sheets → Incoming components inspection for sheet metal forming
- Residual stress state determination at assembled components → Assembly-inspection, compound strength
- Early detection of thermal deterioration, neutron embrittlement, fatigue, creep damage. → Recurrent inspection of safety relevant components in service inspection