

Automatic

material

identification

The 3R AMI system was developed by 3R Technics especially for the eddy current device MAGNATEST® D from Institut Dr. Foerster (www.foerstergroup.de), in order to make an automatic material identification possible.

Application goal

3R AMI System is intended for present and future users of the MAGNATEST® D equipment, who need an automatic identification, sortation or an incoming or outgoing inspection of products and/or their material properties.

Advantages

Quick

A measuring period under **1 second** is standard and even shorter times are possible.

Non-destructive

Where so far a **100% incoming or outgoing inspection** of the material was not possible or too expensive, this is now possible due to 3R AMI.

Sensitive and reliable

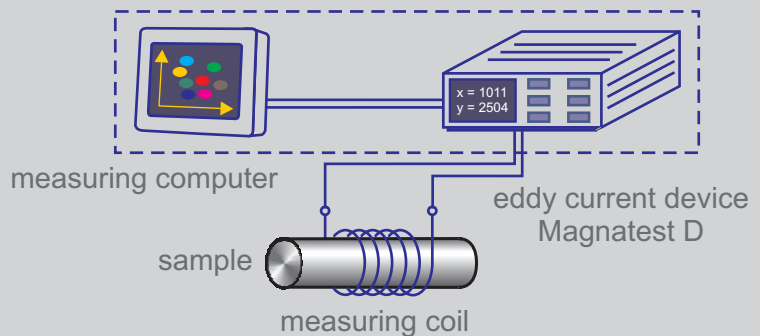
Through the application of the multi-frequent eddy current measuring method combined with special mathematical algorithms a **high sensitivity** and **reliability** are achieved.

Simple and user-friendly

The 3R AMI software was designed as simply as possible. The **unlimited number of groups** and their **automatic generation** are the outstanding features. No restriction to six groups and no restriction of the group geometry to circles, squares and ellipses as in the standard software of the Magnatest D device.

The goal is, to achieve stable and reliable results after only a few calibration parts and without a special training of the staff. This is done fast, non-destructive and without special sample preparation.

We support you also with more complex measurement solutions, e.g. non destructive quantitative measuring of the mechanical material properties. If this system does not fulfill your requirements or does not solve your problem we can offer you higher software versions or even complete measuring systems. Of course we realize also customer specific solutions!



Measuring principle

The multi-frequent eddy current measuring method is used, which is suitable for all conductive and/or magnetic materials.

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