



ENGINEERED
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Same as 1995

VERITEST 1.4 *4*
INSTRUCTION MANUAL

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*Effective 15 April 1995

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The Engineered Inspection Services' Veritest is an extremely versatile instrument which offers high-speed nondestructive separation capabilities based on eddy current technology. The machine is easily set up and operated.

APPLICATION

The Veritest is designed to sort or separate magnetic or non-magnetic parts into either two or three groups, dependent on the initial set-up of the inspection. These groups can be differences in metallic grades, hardness, case depth, grain size, or plating thickness as well as variations in processing, geometry, or chemistry. Because the equipment is both frequency and phase selective, the important variable which needs to be inspected can be detected in most cases despite the presence of other inconsequential variables.

When accompanied by suitable mechanical handling systems, the Veritest is an ideal component of an automated inspection line because of its inherent stability and high speed capabilities.

UNIQUE FEATURES

1. Infinitely variable phase and frequency selection is provided to maximize separation capabilities, enabling:
 - a. A better separation in phase of signals indicating defects and those which may simply indicate variations within the good parts
 - b. An arbitrary choice of depth of frequency penetration so that the proper area of the part can be inspected for the defect being sought
2. The broad frequency range (from 100 Hz to 20 KHz) allows application to both magnetic and non-magnetic materials.
3. The unit is highly sensitive at all frequencies, with a relatively low inherent noise level.