



Fortress Metal Detectors



FORTRESS ADVANCED FEATURES

AUTOTEST

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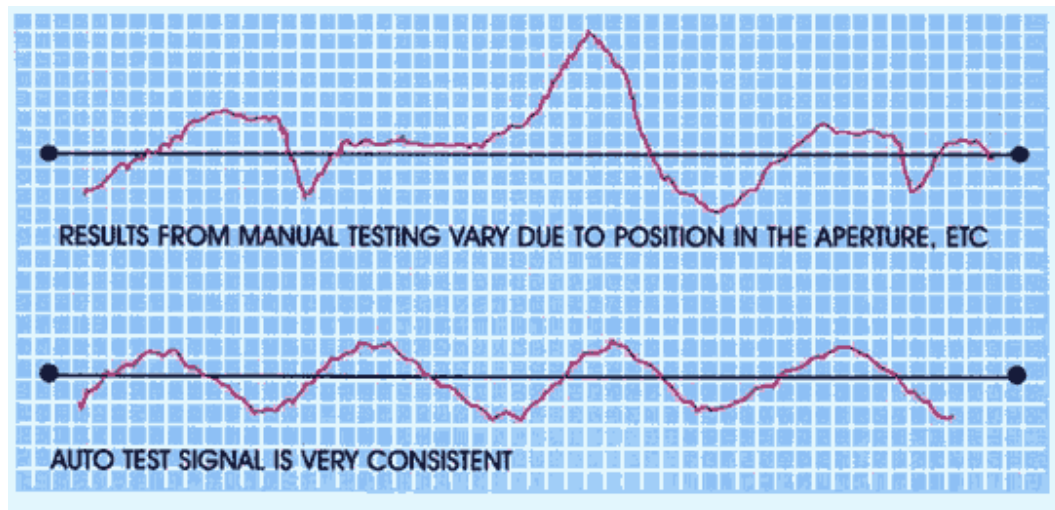
ADVANTAGE FORTRESS

AutoTest

For maximum efficiency and safety, it is not only imperative that all metal detectors be tested frequently, but is demanded by HACCP procedures. Many detectors are difficult to test because of location or application and these systems often become neglected as a result. To address this problem, Fortress has developed a unique automatic test system that can inject a signal that exactly imitates the size and shape of a test sphere.

The test can be initiated by a remote or local test button, or by a computer when the communication system is being used. For truly automatic operation, this system can be configured to run the test signal at prescribed intervals. Using this test feature can actually improve the accuracy of the results by providing a level of consistency unlikely to be achieved with a manual test method. By making the test procedure easier, you can help ensure that frequent testing will be performed.

Waveform



Fortress Advantage: AutoTest

Fortress Technology has pioneered many new ideas in metal detection. Included among innovative features such as multiple sensing areas and the control of multiple detectors from a single interface, is an all-electronic detector testing system.

The Auto-Test feature takes a sample signal from the transmitter coil and electronically couples this to the receiving coils for a fraction of a second. The resulting error signal exactly imitates that of a piece of metal and can be calibrated to simulate any specific size and type of metal. Every time the test button is pressed, a signal is injected and a rejection will occur. The automatic timer can be set to run a test at given intervals without any operator involvement.

The Auto-Test is far more consistent than any manual test and can also be used to augment a manual testing system.

The system can be extended to check the operation of the reject device. With the addition of a photo-eye, the system can also wait for a product to approach so that the test signal will coincide with a package.

The following is an example of the potential cost savings that can be realized using the Auto-test:

Manual Testing Method

Labor burden rate: \$20.00 per hour

Test frequency: 1 per hour

Test and record time per unit: 5 minutes

Cost per test: \$1.66

Cost over 10 year detector life per unit @90% usage:

$365 \times 10 \times 24 \times 0.9 \times \$1.66 = \$130,874/\text{unit}$

Testing Augmented by AutoTest

Assume with auto test that the manual test frequency drops to 1 per day.

Cost over 10 years per unit @ (90% usage)

$365 \times 10 \times 1 \times 0.9 \times 1.66 = \$5,453$

Cost savings per detector \$125, 421 over ten years.

The Auto-Test feature from Fortress is included at no charge
