

Introduced in 1996, Visual Plus was the first eddy-current device designed specifically to detect sustained-load cracks in high-pressure cylinders made from 6351 aluminum alloy. By far the best-selling equipment of its type, Visual Plus has helped cylinder inspectors around the world to detect slow-growing cracks that could not yet be seen with the naked eye or even with magnifying lenses. Thanks to Visual Plus, thousands of cracked 6351-alloy cylinders have been removed from service long before the cylinders leaked or ruptured.

Visual Plus II, introduced by Advanced Inspection Technology in 1998, reduced the possibility of human error and produced more foolproof test results.

And now AIT has once again advanced the state of the art with Visual Plus 3, the "smartest" eddy-current device available since it eliminates human error and clearly identifies all types of cylinder damage and defects. More than an upgrade of existing technology, Visual Plus 3 offers all-new, computerized features that make it the best tool for inspecting cylinders made from all types of aluminum alloys now in use—including popular 6061 alloys favored by major global cylinder manufacturers. Visual Plus 3 not only detects cracks, it identifies corrosion, gouges, pits, folds, valleys, tool stops and other types of indications—and it shows you the differences among them on five different color-coded graphs, including both linear and three-dimensional views, on a computer screen.



# Visual Plus 3 offers these unique features and benefits:

#### **PROBE DESIGN:**

- Eliminates multiple connections.
- O Enables precise measurement of probe travel.
- Provides consistent, accurate results.
- RPM meter indicates probe speed.
- Discriminates among cracks, corrosion, folds, tool stops and other anomalies.

#### **COMPUTER BASED:**

- Operates on any computer using Windows 98 or newer Windows operating systems.
- Electronic updates of firmware and software.
- Internet diagnostics available.
- Detects alloy differences (e.g., between 6351 and 6061 alloys).
- Optional USB port available for power and mobile testing.

#### **RECORDED INSPECTION RESULTS:**

- Five different color graphs.
- Individual views of each cylinder thread.
- Thread overlays.
- Linear views.
- O 3D views.

#### **CALIBRATION WIZARD:**

- O Eliminates human error.
- Easy, step-by-step calibration procedure.
- O Positive verification of accurate calibration.
- Stores calibration data and probe type on each inspection.
- O Notifies operator if recalibration is needed.

#### **AUTOMATIC ANALYSIS:**

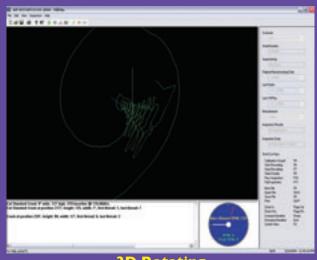
- Automatic pass/fail.
- No interpretation needed—eliminates operator error.
- Precisely locates and identifies all types of anomalies.
- O Positively detects potentially dangerous cylinders.
- Easy, fast, accurate inspections greatly reduce labor time.

#### **DATA STORAGE:**

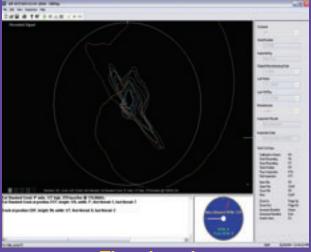
- Automatically stores all data required by HM-220F (USDOT).
- Stored data includes operator identification, calibration, cylinder serial number, probe type, inspection results, hydrostatic retest information & date.
- Facilitates database sharing.
- Uses popular PSI format visual inspection report.

Endorsed by major cylinder manufacturers, including Luxfer and Catalina, Visual Plus 3 is the best inspection technology you can buy today—and because of its exclusive software and versatile calibration features, Visual Plus 3 will be the equipment of choice for inspecting new aluminum alloys in the future.

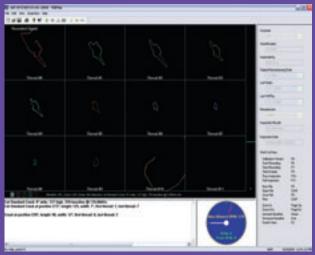




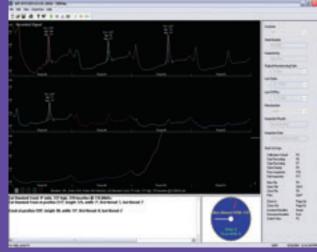
### **3D Rotating**



Thread overlay



#### **Individual thread**



Linear

# Real-time analysis and display

# **Minimum system requirements**

Windows 98 or later, Pentium II or better, 64Mb ram, 10Mb free drive space, video card supporting 1024x768



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