



# VEDAQ-PRO™

**Next Generation Portable Multi-Function EMI Inspection System for Tubulars up to 7-5/8" O.D**

The **VEDAQ-PRO™** represents the next generation of our highly acclaimed **Computerized Portable EMI Tubular Inspection System**, combining advanced features with unmatched performance. Designed for simplicity and efficiency, this system offers a powerful and affordable solution that is easy to set up and operate. Equipped with an **advanced magnetizing system**, and the **PRO-Package Advanced Inspectors Tool Kit**, the **VEDAQ-PRO™** is engineered to meet the most demanding inspection tasks.

Key features include **Enhanced Transverse Flaw Detection** (magnetic flux leakage) and **TRUEWALL™ solid-state wall monitoring** (Hall effect), providing comprehensive flaw and wall loss monitoring as standard. Its lightweight, compact, and portable design makes it easy to use both on-site and in-house, offering versatility for any environment. The system handles inspection capacities ranging from **2 3/8" to 7 5/8" O.D.**, ensuring broad application across various types of tubulars. With an intuitive computer interface, all commands—including gain, coil, and buggy adjustments—are easily controlled for a streamlined user experience.

The **VEDAQ-PRO™** is built to meet the highest industry standards set by **API, DS-1**, as well as other regulatory bodies, ensuring it meets the toughest industry requirements. Additionally, with affordable, readily available spare parts, it helps keep your operational costs low while maintaining high performance.

## Advanced Features:

### Higher-Performance

- Enhanced next level magnetizing system for increased performance.
- Faster inspection speeds for time-saving efficiency.
- Durable design and proven dependability for less downtime.
- Larger inspection capacity.

### User-Friendly Software

- Independent flaw data presentation.
- New software features advanced tools for detailed defect detection.
- Save inspection results as .jpg for future reference.
- Auto-save feature.
- Real-time monitoring of shoe conditions and system performance.
- Touch screen and remote operation compatible.

### PRO-Package Advanced Inspectors Tool Kit

- **TRUE-ASCS** (Advanced Signal Conditioning System) provides operators enhanced visibility of inspection data.
- Multiple SCS display options available for clearer inspection results.
- Advanced signal processing with noise floor removal functions.
- Utilizes paired response to provide unmatched indication visibility.
- Aids in identifying complex flaws influenced by geometry, depth, or material hardness.
- And much more!



**VEDAQ-PRO™ Console with Optional Touchscreen**



**VEDAQ-PRO™ Console with Laptop**



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## S P E C I F I C A T I O N S

### The VEDAQ-PRO™ Portable Multi-Function EMI Inspection System for Tubulars up to 7-5/8" O.D

- Capacity:** 2-3/8" to 7-5/8" O.D. drill pipe, tubing, and casing
- Functions:**
- 1) Transverse flaw detection (MFL)
  - 2) TRUEWALL™ magnetic wall thickness monitoring (MFD)
- Production Rate:** Up to 150 ft /minute, all functions
- Inspection Criteria:** The VEDAQ-PRO™ is designed to meet most stringent industry requirements set forth by API, DS-1, etc.
- Major Components:**
- 1) VEDAQ-PRO electronics console with laptop
  - 2) High-speed buggy drive with variable speed DC motors
  - 3) Powerful DC magnetizing coils
  - 4) Air jack set (standard or Hi-Low models available)
  - 5) Calibration standards (sizes optional)
  - 6) Buggy heads (sizes optional)

#### Buggy Heads and Motorized Drive

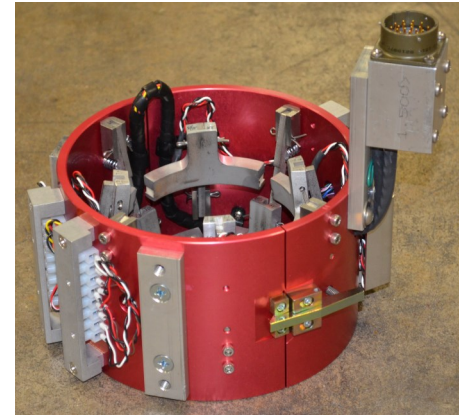
- Buggy heads with transverse (search coil) and wall monitoring (Hall effect) inspection functions.
- Rugged and durable design
- Heads available for drill pipe sizes 2-3/8" to 7-5/8" O.D.
- Dual motor buggy drive, aluminum frame and high speed DC/variable speed motors. Evenly balanced for maximum traction & shoe life
- Only one buggy drive required for all sizes

#### Air Jacks and Mag Coils:

- Air Jacks: Standard and Hi-Low type available. Bearings in roller wheels for long life & smooth operation. Air hoses with quick disconnects and track guides included
- Mag coils with sturdy aluminum frames (9", 11" and 13") wound for maximum gauss output to comply with the most stringent specifications (API, DS-1, etc.)
- 110V or 220V operation (with step up/down transformer)

#### Mode of Operation:

The system is calibrated on a standard at the beginning of the job. The magnetizing coil is placed over the end of the tubular. The buggy drive and head are placed on top of the pipe and the mag coil is placed on the buggy drive. The air jacks lift the pipe so the coil & buggy will clear the pipe racks. The electronics operator then powers the buggy down the pipe and starts the computer while observing the data on the software. When the buggy reaches the other end of the pipe, the jacks lower the pipe to the racks, the buggy and coil are removed and placed on the next pipe. The process is then repeated in the opposite direction.



**Buggy Head**



**Standard Air Jacks**



**Optional Hi-Low Air Jacks**

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