Pipe & Weld Digital X-ray Inspection Systems

VJ Technologies pipe & weld digital X-ray inspection systems enhance manufacturing process control by verifying weld integrity. They are integrated directly into the manufacturing process and provide operator-assisted, semi-automatic, real-time defect assessment. Defects, such as porosity, cracks, lack of fusion, and inclusions are detected quickly so the manufacturing process and schedule is not adversely impacted.

About Pipe & Weld Digital X-Ray Inspection Systems

Weld inspection and Quality Assurance is an integral part of your manufacturing process. Whether inspecting pipe, tube, vessel or structural welds, VJ Technologies (VJT) pipe & weld Digital X-ray Inspection Systems provide high-resolution, reliable weld inspection results.

Each system is individually optimized to specific customer application requirements. Combining spot-check and 100% inspection routines with state-of-the-art manipulation techniques, such as robotics, conveyors and automation, penetration flaws and insufficient welds are rapidly detected and displayed in real time avoiding manufacturing process schedule impact.

Features

- Individualized solutions in real time
- Extensive operating capacity including kV, current, and power
- Automatic Defect Recognition
- Seamless integration with manufacturing process & technology
- Accommodation for a variety of pipe dimensions
- Capable of inspecting a wide array of material (Steel, Aluminum, for example)
- High Resolution
- 100% Duty Cycles
- Optimal Safety Attributes

Quality Compliance

- API - 5L and 1104
- ASME - Section V and Section VIII
- DNV - OS-F101
- AWS - D17.1

320 kV Large Element Inspection System

Typical Weld Inspection
Weld Configurations

- Butt welds
- Circumferential welds
- Spiral welds
- Long Seam welds
- Double joint

Weld Applications

- Pressure vessels
- Boiler assemblies
- Thick-wall pipe
- Large diameter pipe
- High pressure thin wall tubing

Weld Inspection Systems

Pipe
For pipe diameters from 1mm to 250mm

Tube
For high-pressure, straight and serpentine tubes

API Line Pipe

Boiler Tubing

Boiler Assembly Weld Inspection

EN 17636 Compliance
Pipe & Weld Digital X-ray Inspection Systems

Weld Inspection Systems

**LNG**
For high pressure tanks of various sizes

**Boiler**
For large-scale production requirements

Pressure Vessel
Weld Inspection Systems

Structure Weld Inspection
Ideal for complex structures and various material types such as aluminum, steel, stainless steel and titanium.