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A.M JENTON SERVICES

NDT & QUALITY CONTROL

COMPANY PROFILE

BETHAL, MPUMALANGA

http://www.amjenton.co.za/ndt.html

B-BBEE Status : Level 2

Introduction

A.M Jenton Services was established on 14 December 1988, by the late Mr. Tony

Neveling:

The company offers Non-Destructive Testing and Welding Quality Control in the Mining Industry, Engineering Field, as well as Steel-and Structural Manufacturing Environment.

A.M Jenton Service's track record over 30 years of excellent service, are made possible by our Team of dedicated Employees, committed to the Company's success and future sustainability.

Through courteous customer service, skilled and competent Technicians and Employees, we can offer our Clients the best possible Service, Solutions to Inspection Requirements for their needs

What we do

We offer experienced, cost effective, professional guidance and provide quality Independent and Confidential services. Our main focus areas:

- **Non-Destructive Testing**

  - Ultrasonic Testing

  - Magnetic Particle Testing

  - Liquid Penetrant Testing

  - Visual Testing

  - Computerized Radiographic Testing (CR)

  - Manual- and Automated Phased Array Inspection

  - Time of Flight Diffraction (ToFD)

  - Hardness Testing

  - Digital Laser Profiling

  - HDPE Pipe Line Inspection

- **Welding Inspection & Quality Control**

Non-Destructive Testing

- **Ultrasonic Testing**

It is generally used for finding sub-surface defects and corrosion mapping (Thickness measurement). It's typical application is a task of material integrity approval, e.g. manufactured semi-products (sheet, forging or casting) or welds.

- **Magnetic Particle Testing**

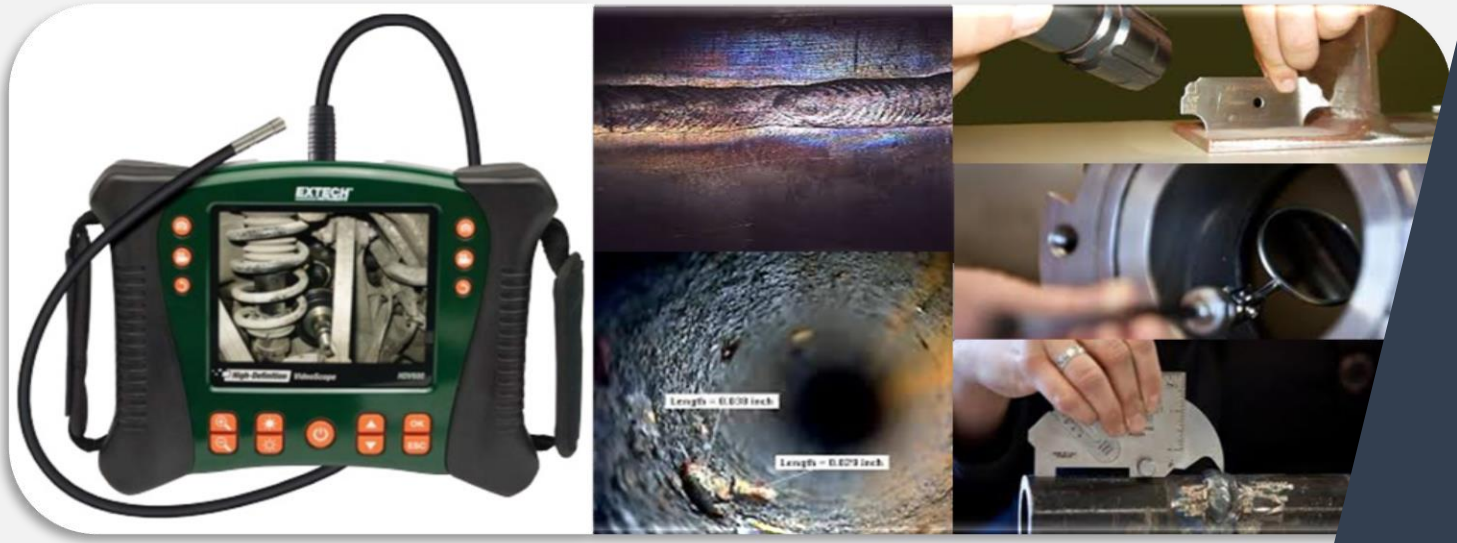
Mainly used to identify surface and near surface defects, and applicable to only ferrous materials. Inspection of Steel Butt Welds are very popular using this method. Other applications include: Bolt Thread Inspection, Propeller Shafts, Welding and Fabrication Inspections.

➢ **Liquid Penetrant Testing**

This method is used to find surface defects, not limited to ferrous materials. Do not require any power source, is highly portable and efficient method. It is generally used where MPT cannot be applied i.e. where material is non-ferrous.

➢ **Visual Testing**

It is relatively easy and low in demand. The equipment is used for inspection of only direct and close inaccessible areas, such as tanks, tubes and vessels. The benefits are transparency and understandable reported information. We can measure dimensions. Data storage is simple via imaging. VT can be applied everywhere, including objects with elevated temperature. Potential Users are Weld Workshops and Assembly Workplaces.

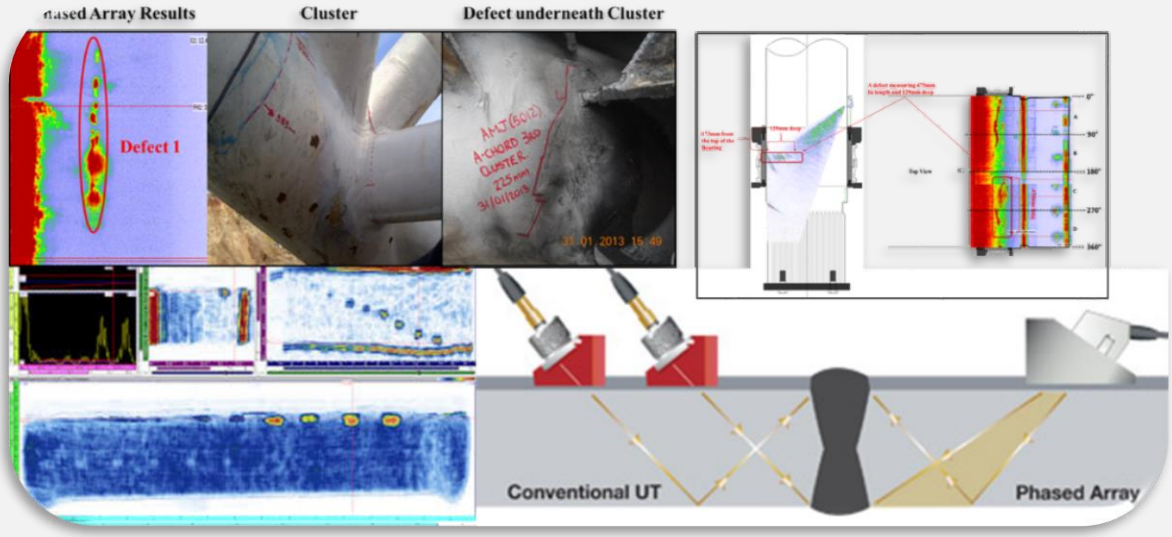


➢ **Computerized Radiographic Testing (CR)**

(CR) uses very similar equipment to conventional **Radiography,** except that in stead of a film to create the image, an imaging plate (IP) made of photostimulable phosphor is used.

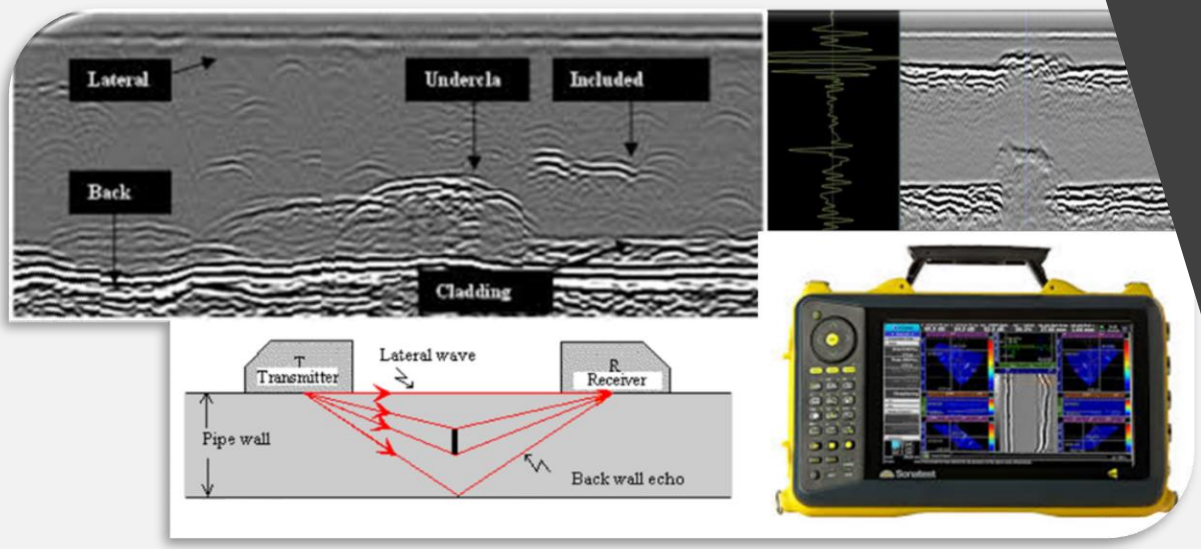
➢ **Manual- and Automated Phased Array Inspection**

(PA) is an advanced method of Ultrasonic Testing that has applications in medical imaging and industrial non-destructive testing. Common applications are to non-invasively examine the heart or to find flaws in manufactured materials such as welds.



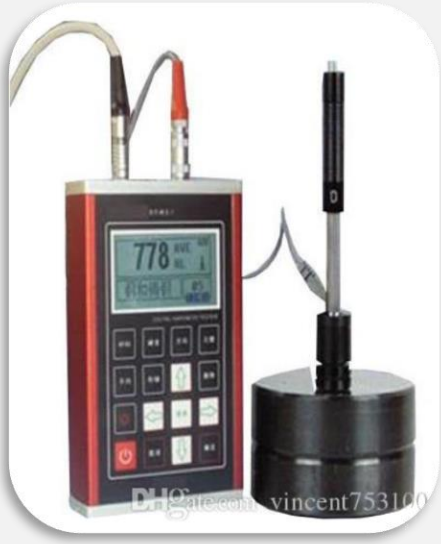
➢ **Time of Flight Diffraction (ToFD)**

Measuring the amplitude of reflected signal is a relatively unreliable method of sizing defects, because the amplitude strongly depends on the orientation of the crack. Instead of amplitude, **TOFD** uses the **Time of Flight** of an **Ultrasonic** pulse to determine the position and size of a reflector.



➢ **Hardness Testing**

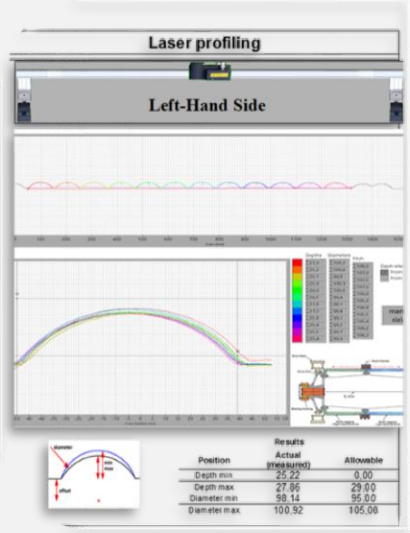
Hardness Testing Basics. Hardness is a characteristic of a material, not a fundamental physical property. It is defined as the resistance to indentation, and it is determined by measuring the permanent depth of the indentation

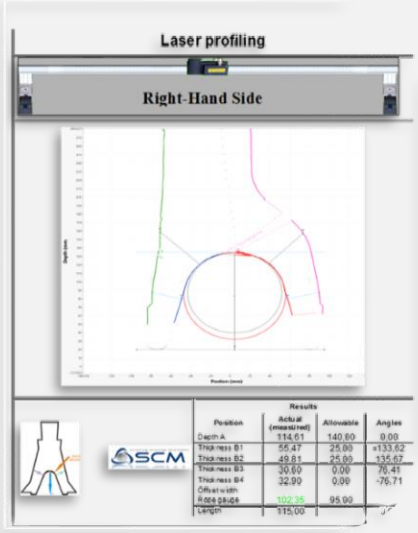


➢ **Digital Laser Profiling**

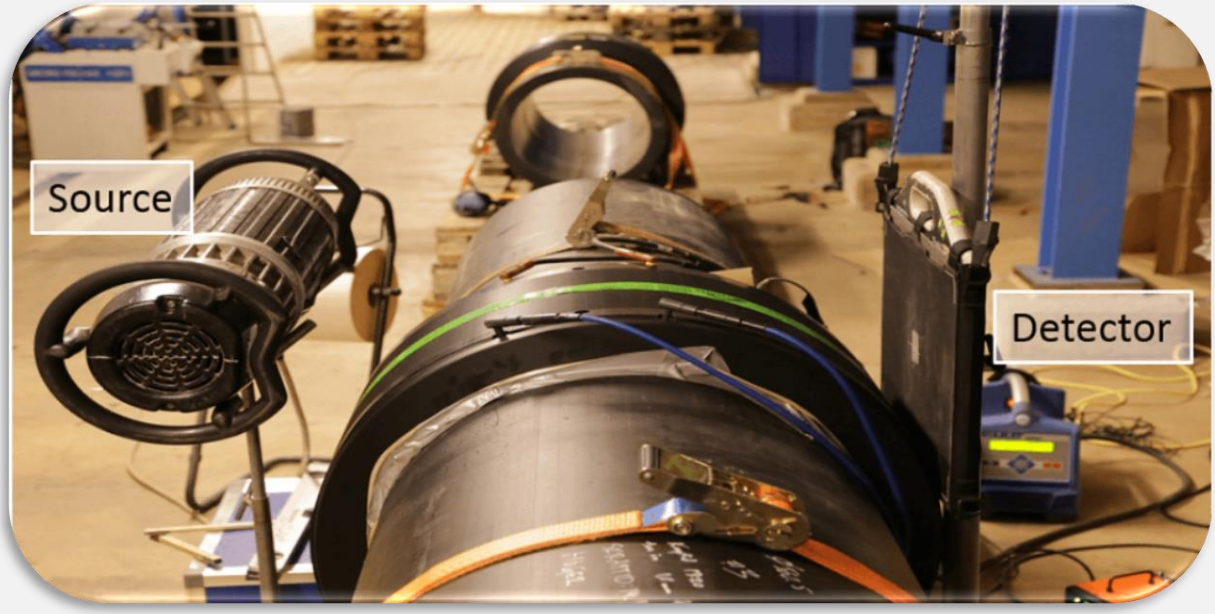
Accurate sizing and monitoring of profiles. Using advance Laser sizing Technology.

This technique is mostly used on Dragline Drums and Sheave Wheels.





➢ **HDPE Pipe=Line Inspections**



Welding Inspection & Quality Control

- **Quality Control and Welder Qualifications:**

Welding Inspections ensure that all the Welding (New fabrications and Repairs comply to the applicable procedures.

Workforce Accreditations

A.M Jenton's Personnel and Technicians are approved by ASNT, ASNT SNTC 1A.

PCN, SAQCC and SAIW Certified.

Performance

NDT

Our NDT Inspectors are qualified to provide you with the ultimate NDT Inspection performance according to International Standards, such as: ASNT, ASTM, ASME, API, ANSI, AWS, ABS, DNV or ISO Specifications, as well as your own Requirements & Procedures where required. Technical background of a regular NDT Training Centre even increases possibilities and allow to use the most appropriate instrumentation or your applications and needs. We van choose the best alternatives, develop and apply an NDT procedure customized to the task. The NDT may be performed in the TMI Laboratories or by the Inspector equipped with portable devices, who can conduct the inspection on the site, TMI may be used as an NDT Supplier, as a Third-Party Inspector, or as an Independent Inspector.

WELDING INSPECTION

We provide all-round solution for Welding Inspection, Qualification of Welders to preparing ITP, to WPS, to PQR for TIG, MIG, MMA, SAW processes with regards to International Codes & Standards such as: ASME, ANSI, API, AWS, BS

CONTACT US

For further details feel free to contact us. Our representative will respond to you as soon as possible.

A.M Jenton Services

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