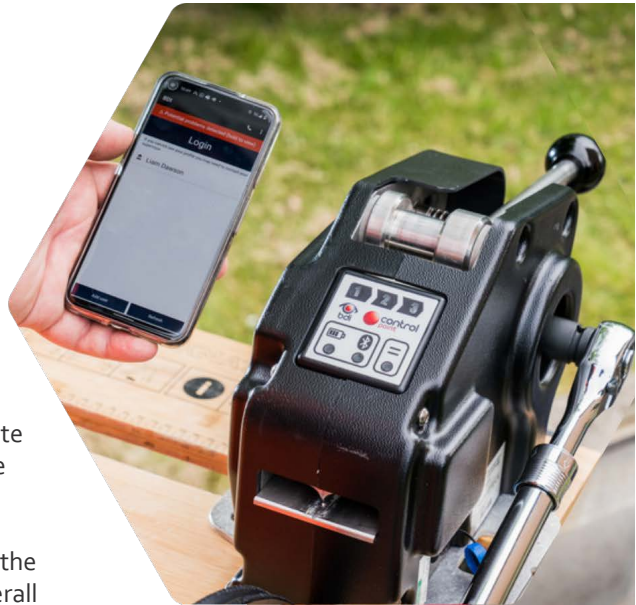


BEAD DIAGNOSTIC INSTRUMENT

Thorough and repeatable on-site testing of Butt Fusion joints for high quality welding



The Bead Diagnostic Instrument (BDI) is an innovative tool designed to validate the reliability of butt fusion jointing processes. It allows a consistent test to be carried out using non-destructive methods to test joint integrity prior to commissioning – giving real time quality assurance in the field. By ensuring a repeatable and consistent test across the whole length of the removed bead, the BDI identifies weld defects before they become a problem, improving the overall joint reliability and reducing the risk of failures and leaks. The easy to use tool is essential for anyone looking to ensure the highest standards in polyethylene (PE) butt fusion jointing, providing confidence and peace of mind on the job site.

FEATURES & BENEFITS AT A GLANCE:

The BDI is designed for use with thermoplastic pipe materials such as MDPE and HDPE, ensuring reliable testing and control. This tool replaces the need for the traditional bend back test, which is open to interpretation and inconsistency in approach.



Proven performance

- The tool has been the cornerstone of many major projects and reliably tested and validated on pipes ranging from 110mm to 1000mm diameter, using various containments



Integrated technology

- The BDI seamlessly integrates with the JointManager platform, allowing full control over asset data and linking weld data with bead test records



Behavioral improvements

- Promotes adherence to best practices encouraging operators to maintain higher standards and consistency in their work



Controlled and consistent results

- BDI is a controlled and digitally recorded test that is easily replicated



Accurate & Comprehensive Testing

- Unlike the traditional bend back test, which is challenging on larger diameters, the BDI tests up to 95% of the bead consistently – with digital outputs



Quality assurance over data assurance

- The BDI is proven to improve quality control measures – by intercepting defects at source



Data Storage

- The BDI data, in conjunction with other quality assurance data relating to pipe jointing can be displayed and viewed in one platform

Ovarro believes that data capture is just the beginning. That's why we've rigorously tested the BDI tool to promote the right on site behaviors, prevent leaks and boost efficiency. The tool is used around the world by contractors and asset owners who see the benefits this brings to overall asset integrity and quality management.

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APPLICATIONS

The BDI is designed for use on polyethylene butt fusion joints and is ideal for installers seeking a reliable and efficient tool to evaluate the quality of fusion joints. The simple, non-destructive test method is applicable for the majority of common pipe sizes (110 SDR11 -1000mm SDR17). The BDI excels where strict quality control and compliance is necessary, such as in water and gas distribution, where it is essential to validate joint quality prior to commissioning.

SUSTAINABILITY

The use of BDI reduces waste and inefficiency by ensuring that defective joints are removed before commissioning, meaning less waste, lower costs, less reactive maintenance and less environmental impact.



ADVANCED DATA MANAGEMENT

The ability to link weld data directly with the bead test results ensures a true start to finish review of the jointing process. The digital approach and repeatability of the test reduces the risk of errors associated with manual testing and data capture. Using the simple to use data platform (JointManager), BDI is an invaluable tool for companies looking to maintain rigorous quality control standards and to demonstrate adherence to industry standards with confidence.

SUITABLE APPLICATIONS:



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