



### Project Objectives

1. Restore the press machine to full operational capacity.
2. Remove all defective areas and ensure integrity through non-destructive testing (NDT).
3. Deliver the project safely under confined and hazardous conditions.
4. Support the client under a tight deadline to minimise further downtime.

## Emergency Welding & Repairs – Manufacturing

### United Kingdom

#### Project Overview

The Renewables & Infrastructure team was engaged to provide emergency welding and repair services on a large press machine at its UK-based recycling plant located in the north of England.

Suffering from catastrophic damage, the press machine, a critical piece of equipment at the plant used to condense recycling waste, had become seriously damaged when four, 6-inch diameter pins snapped, resulting in stress cracks across the main body of the machine and parent material.

Previous repair attempts from another contractor had failed, and with an inoperable machine, and rising costs, the client reached out to CRC Evans' Renewables & Infrastructure team for immediate support.

Renowned for our solution-driven approach and proven track-record in mobilising a team at speed, we were able to deploy an emergency crew and equipment to perform an intensive repair campaign.

#### Project Scope and Requirements & Solution Delivered

The complex scope-of-works, included the repair of deep cracks and defects in the press machine, measuring up to 55mm in 70mm thick steel, while navigating safety challenges related to a confined working space.



After deploying a team of welding experts, specialist partners, and an apprentice from our CRCE Apprentice Academy, we developed a detailed strategy and method statement covering gouging, crack removal, NDT, heat treatment, welding and final inspections, while working in close coordination with a specialist extraction and scaffolding team to create modifications around the machine, enabling the team to carry out work safely and effectively.

### **Challenge: Tackling Extreme Greenfield Demands**

#### **Key Deliverables**

- The safe removal of defects.
- Execution of SMAW welding on parent material up to 70mm thick.
- Multiple NDT inspections confirming weld integrity.
- Full reinstatement of the press machine for production use.

#### **Results and Client Benefits**

- Exceeded customer expectations with the project completed ahead of schedule and in just 10 days.
- The press machine was restored to full operational capacity.
- Customer costs contained through efficient and effective execution.
- Recognition from the customer for our leadership and safety-first approach, with specific commendation for our welding supervisor.
- Apprentice involvement highlighted CRC Evans' commitment to workforce development and future talent.



#### **Project Timeline**

Due to the emergency scope of the project, our team provided an immediate response with works conducted and successfully completed throughout a 10-day period.

#### **Conclusion**

The team successfully delivered a high-stakes, safety-critical repair project for the client, ensuring the client could quickly return the press machine to full operation. Through technical expertise, collaborative problem-solving, and a safety-first approach, we reinforced our reputation as a trusted partner for complex, emergency welding solutions.

