

# CASE STUDY

## BURNHOUSE ENGINEERING



CELEBRATING 30 YEARS

SINCE 1989

## VENTILATION SYSTEM INSTALLATION

**LOCATION:** Motherwell

**START / END DATE:** End July – End Sept 2020

**SERVICE:** Design, Manufacture and Installation

**PLANT / EQUIPMENT:** Cherry pickers, telehandlers and Hiab crane

### BACKGROUND

A UK based energy company had tendered for a solution-based approach to design, manufacture and installation of a new ventilation system that could supply local ventilation to specific plant equipment at their central depot based in the Scottish Central Belt.

Burnhouse Engineering's tender submission was successful. The approach was to utilise 3D imaging to create the design as there were aspects of the manufacture that could not be tested by the client prior to any work commencing. This offered a guarantee of certainty that any unique aspects of the design would be tested through the modelling process prior to installation, thereby reducing the risk of changes to the stainless-steel hoods and system when onsite.

### METHODOLOGY

#### Stage 1

Design on SolidWorks to produce 3D imaging in order to test design for obstacles and fit prior to manufacture. Create drawings for manufacture.

#### Stage 2

Manufacture of the ventilation hoods that will be plumbed to the main ventilation at the Burnhouse Engineering workshop. All materials were stainless steel.

#### Stage 3

Manufactured works transported to customer's depot and fully installed by a trained team onsite. The installation took 8 weeks and included plant and equipment such as cherry pickers, telehandlers and a Hiab.

Accreditations required for this project:

Training and accreditation that supported this project - ISO9001.

### RESULTS

3D modelling enabled the client's new ventilation system to be manufactured and installed with no changes needed at point of installation, on time and on budget.



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