

CASE STUDY

BURNHOUSE ENGINEERING



CELEBRATING 30 YEARS

SINCE 1989

ORBITAL WELDED PURIFIED WATER AND CLEAN COMPRESSED AIR LINE

LOCATION: Irvine

START / END DATE: 7th Sept - 12th Oct 2020

SERVICE: Design, 3D Modelling, Manufacture, Welding, Installation, Reports and Certifications

PLANT / EQUIPMENT: Orbital welding plant

BACKGROUND

Burnhouse Engineering were approached to provide a bespoke engineering solution by a global life sciences company with a portfolio of over 300,000 products. They required new CCA / PW Loop Pipework to create additional manufacturing capacity in a new production room at their life sciences plant in the West of Scotland.

Burnhouse Engineering successfully submitted a proposal to create a new Orbital Welded Purified Water and Clean Compressed Air Line using 3D modelling for the design. The full project would be managed end to end including design, manufacture, installation including orbital welding, reports, and certifications.

METHODOLOGY

The design stage utilised Burnhouse's expertise in SolidWorks – a 3D modelling software. The 3D environment imaging enabled the client to see the exact pipe runs that would provide the maximum efficiency for the new facility. The designs were accepted, and the project moved to production.

The material for the project was 316 Stainless Steel. 95% of the works were pre-manufactured at Burnhouse's workshop in Ayrshire and final 5% would be installed at the client's plant using precision orbital welding to complete the job onsite.

A full suite of documentation was produced including:

- weld reports
- inspection and test plans
- pipe drawings
- passivation certificates
- material certificates
- welder qualification.

RESULTS

A unique pipe run which maximises the capacity of a new production room at the life sciences plant.



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