



BRIGGS OF BURTON, UNITED KINGDOM

Key Facts

Company: Briggs of Burton

Website: www.briggsplc.co.uk

Industry: Food & Beverage

Country: United Kingdom

Products Used:

- CADWorx® Plant Professional
- CADWorx® P&ID

BRIGGS OF BURTON COMPLETES CRUCIAL PROJECT PHASE FOR EUROPE'S LARGEST DISTILLERY

CADWorx® Plant Design Suite helps Briggs successfully deliver a complex extension project on a COMAH site with the goal to improve productivity, efficiency and safety.

IDENTIFYING GOALS

Briggs of Burton PLC is part of the Briggs Group, involved in brewing and distilling for the food and beverage, pharmaceutical, health and beauty markets. It provides process engineering solutions for the world's leading companies. In the international brewing and distilling industry Briggs enjoys an outstanding reputation with an engineering heritage that goes back more than 270 years. Briggs supplies total capability – from brewhouse to warehouse – by offering leading technologies in mash conversion, lautering, mash filtration and wort boiling. Briggs was contracted by the Diageo's Cameronbridge grain distillery in Scotland to construct crucial parts in the complex Project Forth – an undertaking to increase the capacity from an already significant 65 million to 105 million litres of alcohol per annum.

OVERCOMING CHALLENGES

Building an extension to the existing whisky distillery and maintaining production on the COMAH site, while improving efficiency, working safely and reducing the carbon footprint, were some of the challenges that Briggs faced. Briggs delivered two of the four stages of Project Forth. Phase two included the design and construction of a new fermenting room containing 16 washbacks and two yeast optimizing vessels, a new Clean-in-Place (CIP) building to service the whole plant, a bulk chemical intake and a storage facility to service the CIP area, as well as an upgrade of a large existing fermenting room. In the next phase, Briggs had to design and build a new mash house for pre-distillation.

The CADWorx Suite has been used successfully on a number of previous projects at Briggs and therefore was chosen again for Project Forth.





REALIZING RESULTS

The database created in CADWorx P&ID was accessible for all disciplines on the project and purchasing schedules were produced hassle-free. Keith Poynton, Engineering Director at Briggs, said, "The accurate take-offs produced from the database resulted in cost savings from fixed prices with the supplier and we were able to maximise discounts by ordering in bulk and with fewer deliveries."

Briggs' team of project engineers used CADWorx Plant Professional to model the whole plant, including the vessels, the pipework and the steelwork.

Cross sections and accurate fabrication drawings were created from the steelwork and pipework models allowing large pipe-bridge sections to be assembled complete with the pipework safely at ground floor level at site. "With space constraints and a river running through the site, completing this work at high level would have been very challenging and difficult to achieve safely. The accuracy of the model and steel fabrication drawings ensured an efficient and safe process," said Keith Poynton. Briggs achieved time savings of approximately 10% to 15%.

The integration with Navisworks allowed the project to be reviewed by all the parties involved – technical or not. Employees with previous CAD experience required just half a day's training in order for them to work productively on the project. The customization capabilities of CADWorx enabled Briggs to extensively tailor the database, symbols and pipe specifications.

MOVING FORWARD

Once again, Briggs has delivered outstanding quality on time and within budget using Hexagon solutions. One of the biggest benefits from using CADWorx is the possibility to deliver a

substantial amount of work upfront, minimising cost overruns due to on-site design changes. Hexagon is proud to have been a partner with Briggs for many years and is looking forward to continue this mutually beneficial relationship into the future, helping Briggs to maintain a competitive edge in today's and tomorrow's market.

ABOUT HEXAGON

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build, and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

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