



OTTO  
SIMON

Chemicals & Industrial Processes







## ABOUT US

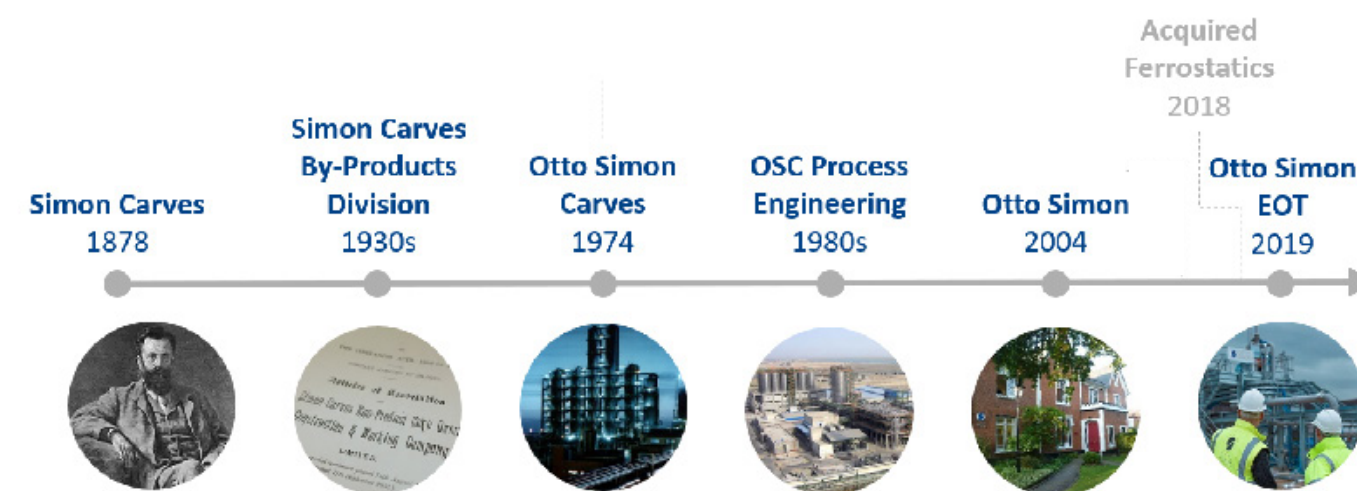
**Otto Simon is a South Manchester based, Process-led Engineering Consultancy and Project Delivery Organisation**

We offer multidisciplinary engineering design services, consultancy, project management, procurement, construction management and commissioning services across a range of market sectors.

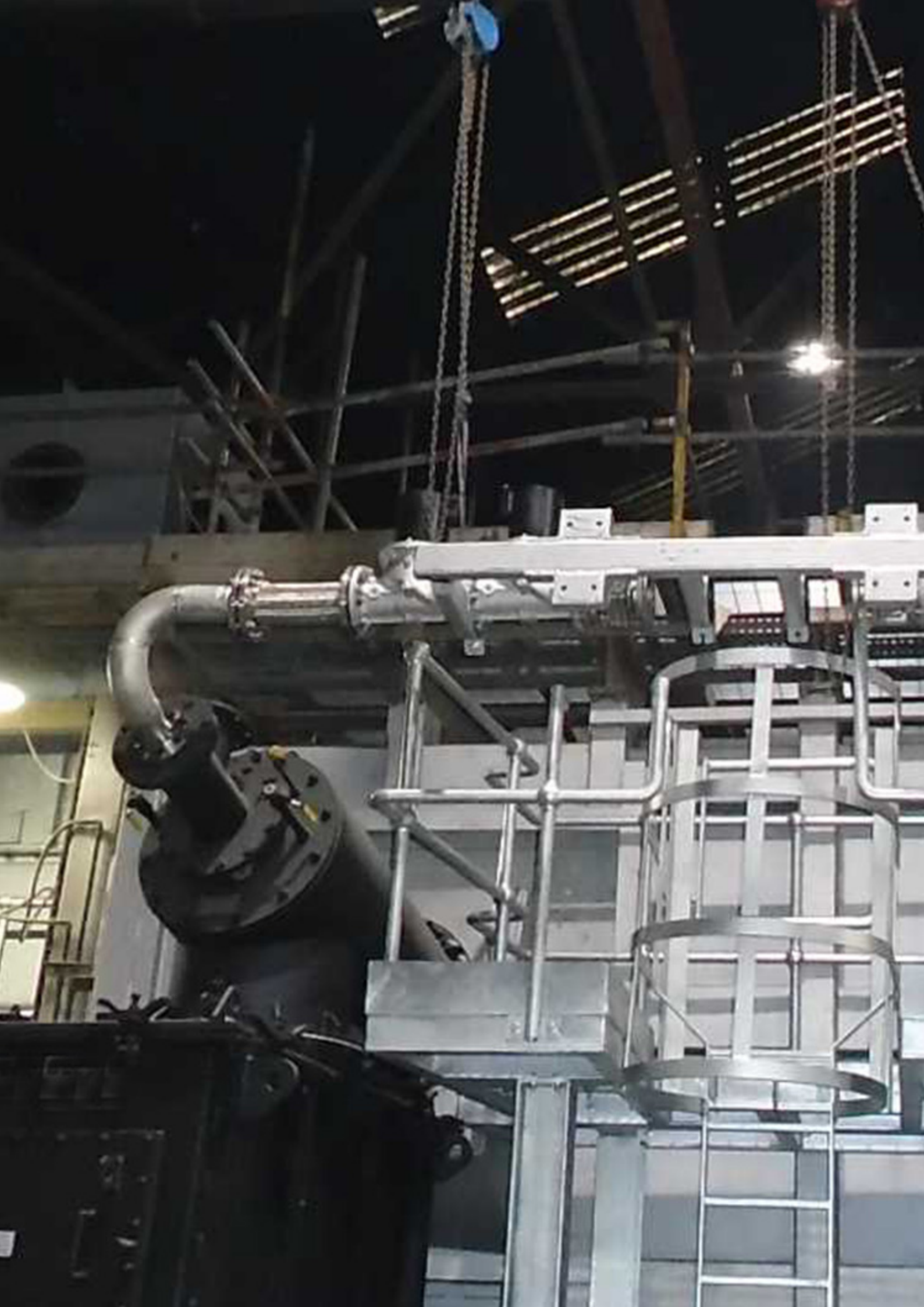
Otto Simon is a relationship-based company with a strong focus on our clients needs, accredited with ISO 9001, 45001, SafeContractor and Cyber Essentials.



## OUR HISTORY







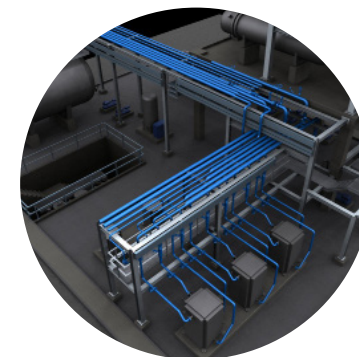
## ENGINEERING SERVICES

Otto Simon is a diverse engineering and project delivery organisation providing services to the chemical process, hydrogen and industrial sectors. Based in Manchester, Otto Simon builds upon our 150-year heritage and experience to deliver technically excellent engineering services.

We provide consultancy services to support all phases of project delivery; working closely with clients during the early stages of the project to ensure all feasibility, concept and front-end engineering aspects are fully defined and captured.

The information developed follows a logical build-up of technical scope, Health, Safety and Environmental regulatory compliance, planning, economic and commercial information to support project delivery.

Otto Simon ensures that we are up-to-speed with all of the latest legislation on matters relating to process safety. Our experience and reputation means that we have excellent relationships with the world's leading providers of health and safety and regulatory solutions, so you can be confident that the advice we give is informed and current.



### Engineering Services include:

- Concept Design
- Feasibility Studies
- Front End Engineering Design Packages
- Detailed Design
- Sanction Grade Cost Estimates
- Technical Due Diligence
- Technology Evaluation and Selection
- Technology Development & Process Scale-up
- Support with Regulatory Compliance
- Functional Safety Analysis
- Process Safety Design (Relief Systems / DSEAR Assessments etc.)
- Hazard Identification and Risk Assessment (Hazard Studies, SIL, LoPA)
- Owner's Engineer Services
- Multi-Discipline Engineering Support

**150+**  
Years of  
Experience

**100%**  
Employee Owned  
Trust

**1000+**  
Projects Delivered



# PROJECT DELIVERY SERVICES

Otto Simon is well versed in all aspects of the project delivery process and possesses the full complement of experience, skills, know-how and tools to successfully execute complex process plant projects.

Drawing upon a long and distinguished track record of experience and employing highly capable management and engineering personnel, Otto Simon successfully undertakes selected projects from Engineering Design to full turnkey delivery.

Otto Simon has the capability and flexibility to support a range of projects from small modifications/upgrades to exiting operational assets all the way to multi million pound new build production facilities.

Working with proven and developing technologies, Otto Simon has experience of delivering projects in the following sectors/areas:

- Fine Chemicals
- Organic Chemicals
- Thermal Processing
- Petrochemicals
- Batch Processes
- Waste-to-energy
- Gassification
- Syngas Processing
- Energy Optimisation
- Polymers
- Hydrogen Conversion
- Biotechnology & Bio-Refining
- Biomass Processing

## Services include:

- Detailed Design
- Procurement
- Project Management
- Principle Designer / Principal Contractor Services under CDM 2015
- Construction Management
- Commissioning Planning
- Site Commissioning
- Management of term contract / framework agreements for site specific engineering support



Otto Simon's engineering and project delivery team consists of highly experienced engineers, project managers, project delivery, and commissioning personnel. We pride ourselves on the calibre of our project delivery team and maintain the highest professional standard of core skills.

Health and Safety plays an important role in our core values and we are proud to be a RoSPA member. Our continual improvement plan for HSEQ ensures that all projects are delivered to the highest HSEQ standard. Otto Simon's management systems are certified to ISO 9001 and OHSAS 18001.

## HYDROGEN



## CHEMICAL & PROCESSING



## EMERGENT & BIOTECHNOLOGY



# CHEMICAL & PROCESS INDUSTRY PROJECT EXPERIENCE

## Confidential Client, Tank Replacement & Layout Improvements

- Tank Replacement – Laser Scan & 3D Modelling, detailed design of steelwork, installation supervision
- Layout Improvements – Feasibility study for optimisation of vehicle loading area; site survey to assess requirements for demolition, cable re-routing; basic engineering and cost estimate; 3D modelling of new layout
- Process Relief Calculations – storage tank relief verification to API 2000 including relief system and relief device sizing calculations and relief system definition.
- HV Electrical System Study – survey and assessment of HV electrical system and improved system design
- Material Loading FEED Study – FEED and cost estimate for improvements to an existing material loading system



## Confidential Client, Reactor Replacement, FEL-2

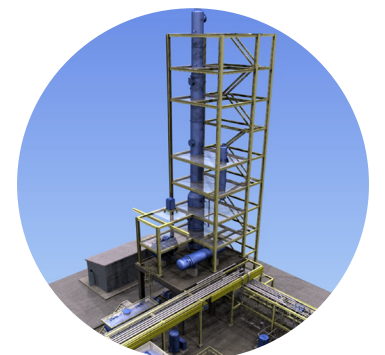
### Project Information & Scope

- Feasibility Study to FEL-2 for Reactor Replacement Project
- Scope included Laser Scan of reactor bay and 3D modelling of reactor replacement to ensure clash-free installation
- OSL worked with the Client's process team to complete a FEL-3 Package to assess the feasibility and produce a +/- 10% Cost estimate
- OSL was awarded the Procurement and Construction Management for the following phase of the project



## Confidential Client , New-Build Healthcare Batch Processing Plant, Leek Staffordshire

- £35 Million TIC new-build batch processing plant
- Project management & full multidisciplinary engineering support provided for the detailed design phase of the project
- Generation of all engineering deliverables up to IFC status
- Over £1M engineering manhours
- Plant achieved beneficial operation in 2025





# CHEMICAL & PROCESS INDUSTRY PROJECT EXPERIENCE

## British Steel EPC Projects

Prior to the recent closure Otto Simon were the partner of choice for the British Steel Coke Ovens to undertake various projects on the Coke Oven Gas by-product's recovery plant at the Appleby Coke ovens in Scunthorpe  
OSL has delivered a large number of projects for British steel including the following more recent EPC projects:

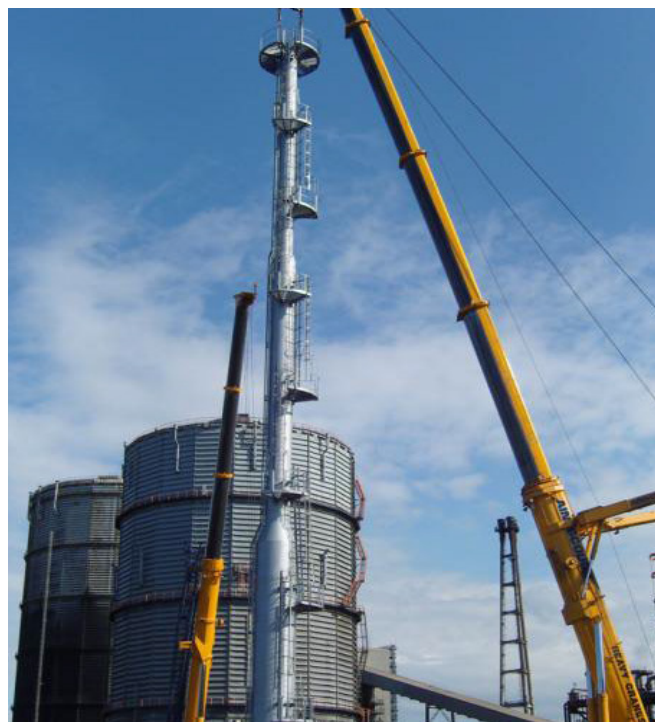
- New ammonia Saturator Plant (EPC) – £3.5M TIC, 2020
- New Coke Oven Gas Flare stack system (EPC) £2.5M TIC, delivered in 2023
- New Benzol by-product processing plant (EPC) £7M TIC

## Fuel Switching Studies (Kellogg's & Novelis)

OSL has worked across several industrial sectors in recent years on projects to trial the use of hydrogen as a substitute for natural gas as a fuel, either as a blend or as a full replacement.

OSL has completed concept design, FEED study, detailed design and provided construction management and commissioning services for the following two industrial fuel switching trials over the course of 2023 to 2025.

- Kellogg's cereal manufacturing site in Manchester, conversion of 2 cereal ovens to fire on hydrogen and design / construction of the associated hydrogen supply infrastructure
- Novelis' aluminium recycling furnaces in Warrington, conversion of a melting furnace to fire on hydrogen/natural gas blended fuel and design / construction of the associated hydrogen supply infrastructure



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