



OTTO
SIMON

Chemicals & Industrial Processes





ABOUT US

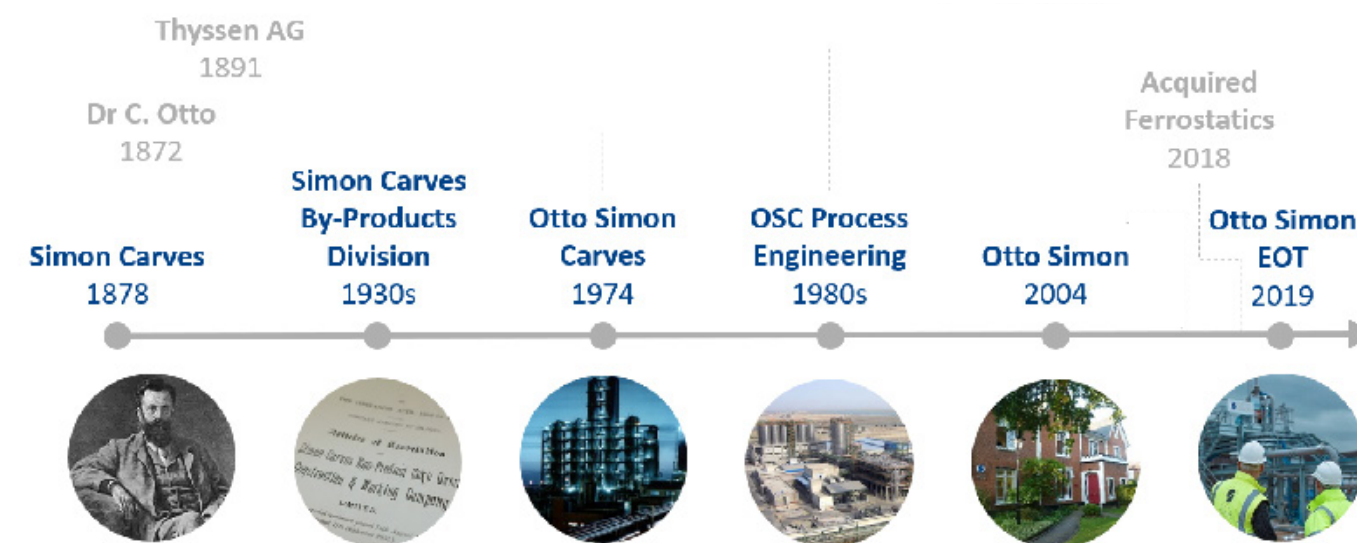
Otto Simon is a South Manchester based, Process-led Engineering Consultancy and Project Delivery Organisation

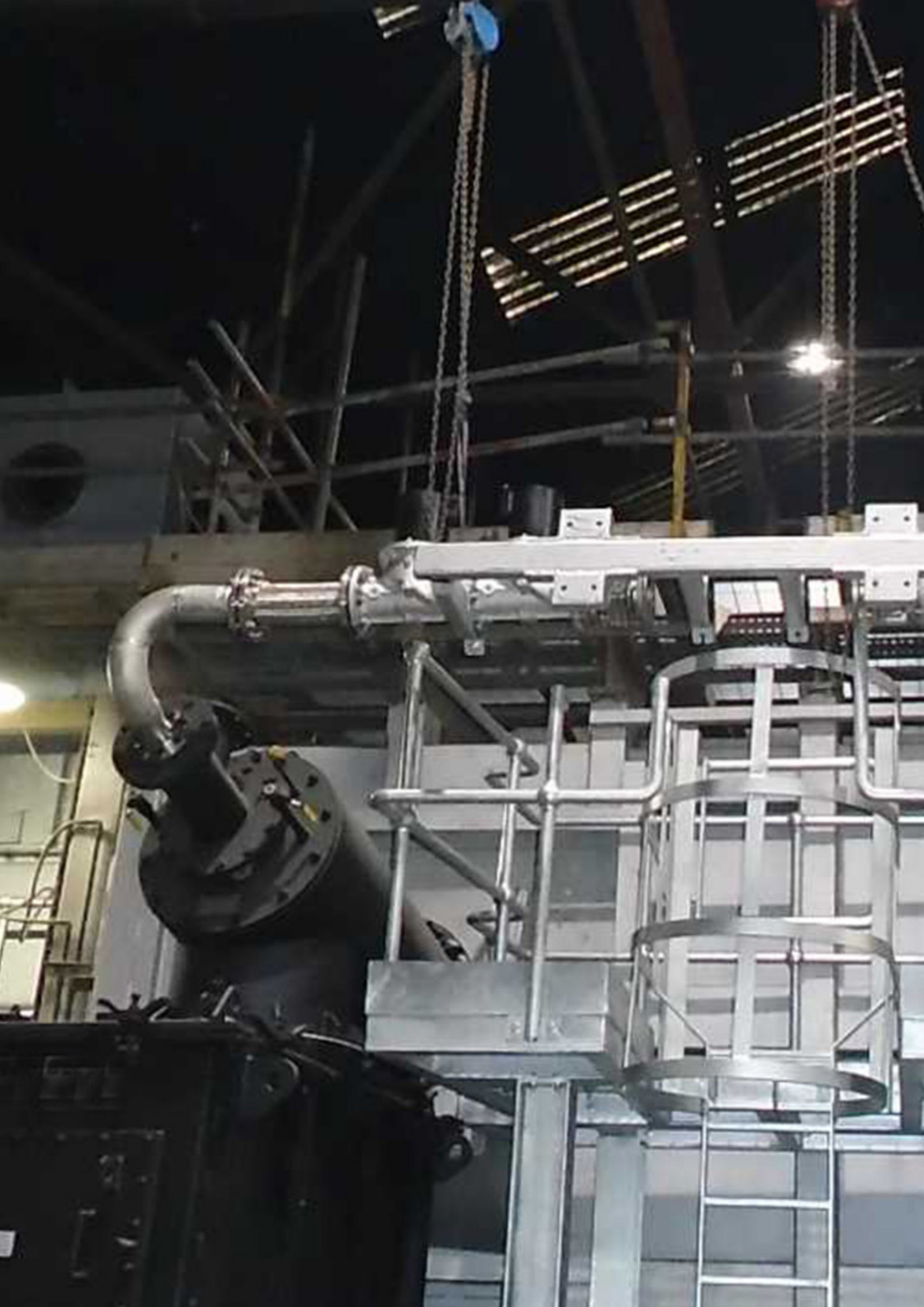
We offer multidisciplinary engineering design services, consultancy, project management, procurement, construction management and commissioning services across a range of market sectors.

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





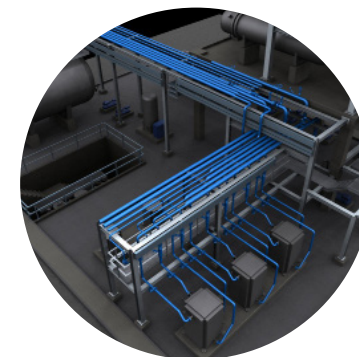
ENGINEERING SERVICES

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

Design and project delivery support to various site improvement and upgrade projects for operating facilities in the UK:

- 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 improvement 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 EPCm and Procurement for the following phase of the project.



Confidential Client, Tank Replacement & Layout Improvements

- Structural and Mechanical Engineering for batch reactor replacement on a fine- chemicals manufacturing plant.
- Scope included laser scanning and 3D modelling, detailed design of steel work.
- Feasibility Study for optimisation of vehicle loading area and gatehouse in Manchester, UK. OSL's Scope of Work included:
 - Surveying to assess requirements for: demolition, cable re-routing, construction of new buildings.
 - Basic engineering to support production of cost estimate
 - 3D model of proposed new layout.



CHEMICAL & PROCESS INDUSTRY PROJECT EXPERIENCE

Fuel Switching Studies

Project Information

- Feasibility studies for fuel switching at the North-West operating sites, assessing site constraints on the feasibility of fuel switching, including:
 - Hydrogen supply options: pipeline, electrolyser, road trailers;
 - Safety constraints: e.g. DSEAR/ATEX, traffic movements, proximity to existing site facilities;
 - Operational constraints: control system, temperatures etc.
- OSL supporting development of demonstration schemes and programmes, including: process flowsheets; demonstration facility layouts; CAPEX and OPEX estimates; preliminary safety and environmental assessments.

Confidential Client, Healthcare Products Batch Processing Plant

New-Build Healthcare products batch processing plant - Detailed Engineering, project management and procurement services.

- £35 Million TIC new-build batch processing plant
- Full multidisciplinary engineering support provided for the detailed design phase of the project
- Generation of all engineering deliverables up to IFC status
- Provision of project management and procurement services
- Plant achieved beneficial operation in 2025



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