

# L&N Scotland Company Profile



**engineered** for **extremes**

[www.lnscotland.com](http://www.lnscotland.com)



## Products and Capabilities

Headquartered in the Oil and Gas capital of Europe; Aberdeen, L&N Scotland is a leading manufacturer of subsea production flow spools, chemical injection and control systems equipment. Over the past 20 years' our company has built a strong reputation for manufacturing excellence in the subsea sector within the UK and across the globe by remaining true to our company core values.

Utilising our technical departments and engineering design expertise, L&N Scotland strive to ensure that design to manufacture principles are implemented to streamline manufacturing processes, and to maximise any project cost-out opportunities available. L&N Scotland offer a comprehensive range of products and services including, but not limited to the following:

- **Subsea Spool Manufacture** – Turnkey manufacture of production spools, crossover spools and chemical injection systems for subsea application
- **Design Engineering** – Provision of design to manufacture engineering services ranging from control line system design to chemical injection and flowspool systems
- **Control Systems** – Turnkey manufacture, assembly, testing and autogenous orbital TIG welding (onsite and in-house), supported by our design engineering and global site support capabilities
- **Product Integration** – Provision of innovative product integration techniques and processes, supported by our design and engineering capabilities, as well as our strong team of services technicians
- **Corrosion Resistant Weld Overlay** – Offering solutions for both horizontal and vertical applications, from small forging to double random pipe lengths
- **Pressure testing** – Independently certified high pressure hydro and gas testing capabilities, both in-house and onsite with the use of our mobile flushing and test rigs
- **Inspection** – Offering a wide array of inspection processes from CMM dimensional verification, hardness, ferrite, PMI testing to surface finish and NDT testing (MPI/DPI)
- **Global Site Support** – Complimenting our design and manufacturing capabilities, we deploy competent technicians and containerised facilities allowing us to arrive onsite fully self-sufficient to execute product deliverables

Additional information regarding our suite of products and services can be found on pages 2- 4.



## Subsea Spool Manufacture

Our business model has been honed over many years to support the manufacture of specialised subsea flow spool, crossover and chemical injection spool systems. L&N Scotland's purpose built facility houses the latest advancements in specialised manufacturing and inspection equipment. Our experienced team encompasses engineering trades and specialist support to ensure the highest levels of quality and maximum value is added to our product.

Carrying a large stock of raw materials in grades common to subsea applications, L&N Scotland have the ability to significantly reduce lead times, and the inherent costs associated with purchasing and testing specialised material grades on a project specific basis.

## Design Engineering

Our experienced team of engineers combine design thinking with engineering knowledge and expertise, within an innovative and technical facility, to streamline the manufacture of all subsea products, ensuring that "design to manufacture principles" are implemented.

The engineering team have an innate understanding of product knowledge in the field of subsea applications, ranging from control line system design to chemical injection and flow spool products. Our goal is to engineer cost out at project design stages, driving innovation and ensuring the integration of our products with our client's equipment is seamless.

## Control Systems

L&N Scotland offer a broad spectrum of products and capabilities to support our customer's control system applications, including the turnkey manufacture of subsea controls interface units, and the global provision of qualified personnel and equipment.

Our fresh approach to the design and manufacture of control line packages for subsea equipment, within our customers manufacturing plant or at a remote location, allows L&N Scotland to provide a pre-manufactured turnkey kit of parts in a "ready to fit" form, maximising quality and efficiency whilst reducing lead times and project costs.



All control system packages are provided with a robust dossier to support the integrity of the manufactured system in line with current onerous industry standards. We offer a truly unique and cost effective turnkey service which has allowed L&N Scotland to gain a strong reputation throughout the sector.

## Product Integration

L&N Scotland's design and engineering capabilities allow us to support and facilitate the innovative integration of our manufactured products with our client's equipment. We have developed product manufacturing and integration processes and aids, which have significantly reduced cost and build time whilst increasing the overall quality of the product.

Our ability to carry out innovative integration of our products with our client's equipment is supported by our strong team of service technicians in Aberdeen, who are also deployed across the globe. Our onsite integration capabilities allow us to facilitate seamless product integration at our client's facility or at remote site locations.

## Corrosion Resistant Weld Overlay

Through the evolution of our business, L&N Scotland have gained over 20 years' experience in weld overlay techniques, coupled with an enviable range of world class welding equipment at our facility in Aberdeen, Scotland. Offering options for both horizontal and vertical applications, we can apply weld overlay to the smallest of forgings up to the inlay of double random pipe lengths.

Our highly skilled operators have a vast range of skills and knowledge to ensure that the most demanding of customer applications can be met, whilst safeguarding the integrity and quality of the finished product. The weld engineering department which supports the overlay team, plays an intrinsic part in the research, development and qualification of weld overlay procedures and processes.

## Pressure Testing

L&N Scotland boasts industry leading pressure testing facilities housed within our Aberdeen workshop. Our test cells are independently certified to allow us to carry out hydro and gas testing activities up to 30,000psi, whilst our mobile flushing and test rigs allow for onsite testing and flushing activities.



All information is recorded both by data logging and chart recording equipment to ensure the integrity of collated information, and that data is collected in a secure manner. Both test cells are equipped with, and supported by, HD CCTV and still imaging with interlocking doors, automated pump shutoff and temperature control.

## Inspection

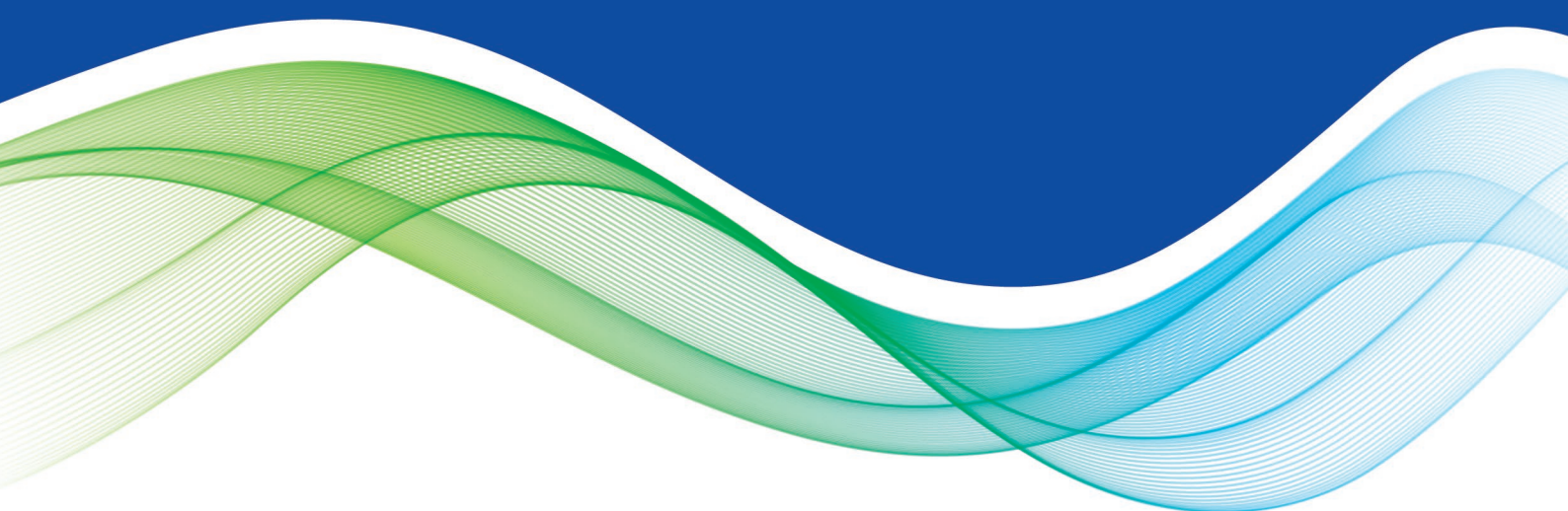
As a part of our “supporting business activities” structure, L&N Scotland’s in-house inspection department complement our core manufacturing capabilities. Our vast range of equipment covers CMM dimensional verification which meets stringent industry tolerances (both arm and laser tracker types), hardness (KB & Vickers), PMI ferrite and surface finish inspection, with experienced and qualified operators proficient in current industry standards and techniques.

## Global Site Support

L&N Scotland have a strong team of service technicians who are deployed across the globe, complementing our design and manufacturing capabilities offered at home. Our technicians are trained to the highest of standards and are proficient with onsite product integration, control system assembly, fitment, piping, testing and autogenous welding.

Our modern fleet of site workshops and office facilities are prepared with the latest equipment required to execute all aspects of onsite product integration, including design and engineering function facilities, as well as equipment required for welding and testing. The containerised workshop and office facilities held by L&N Scotland allow us to arrive onsite, self-sufficient with the ability to execute project deliverables in the shortest time frame whilst maximising manufacturing efficiencies.





Kirkhill Industrial Estate, Dyce, Aberdeen AB21 0GZ  
[www.lnscotland.com](http://www.lnscotland.com) | 01224 722 544