



Engineering Solutions Delivered.

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Established over 140 years ago, supplying products to the Agricultural Industry, Ritchie has developed into a global supplier of high quality products and services to several industries.

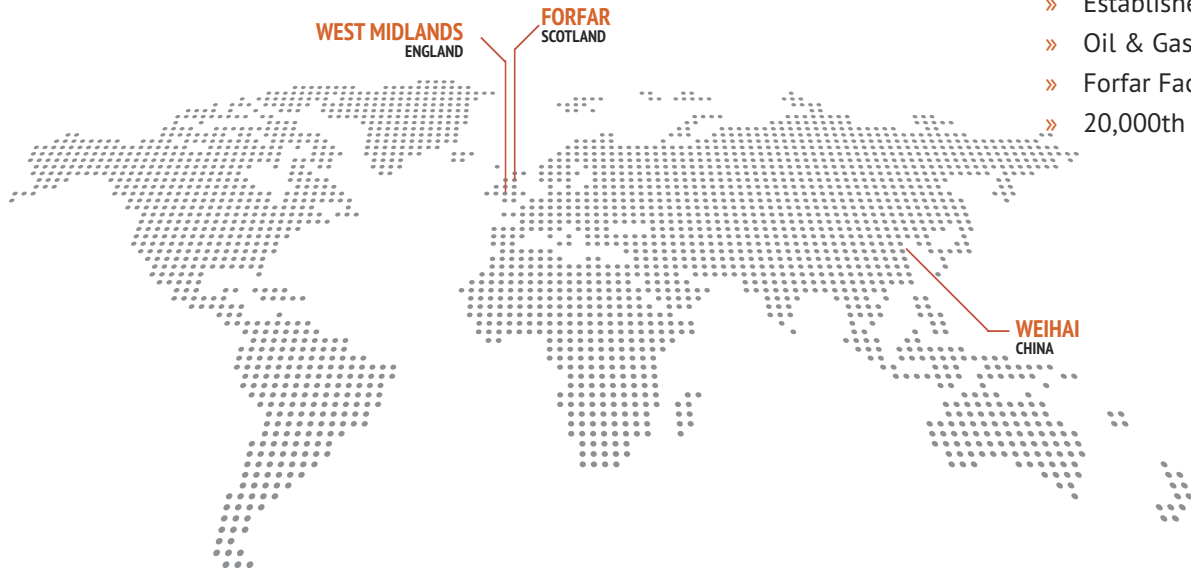
Ritchie has manufacturing facilities in:

- » Forfar, Scotland
- » West Midlands, England
- » Weihai, China (joint venture with Weihai Gaosai)

Over the last 30 years, Ritchie has developed its reputation as a high-quality designer-manufacturer in the offshore industry. The customer base now includes major service, rental, exploration and production companies. Products are delivered globally including the North Sea, Europe, West Africa, Caspian Sea, North America, Brazil, Australia, New Zealand and the Far East.

Key Numbers:

- » Turnover - £14M
- » Employees - 140
- » Established - over 140 years ago
- » Oil & Gas Customers - 30
- » Forfar Facility - 50,000m<sup>2</sup>
- » 20,000th DNV approved unit delivered in 2015







## Company Values

### Quality

Quality in our Design, Fabrication and Service are vital elements which make our business different. We are proud of our products and take pride in providing our customers with outstanding service.

### Innovation

With a rich heritage in innovative design, we constantly look for new ways to resolve problems. Our products are designed not simply to meet specification but to provide optimum ergonomics, functionality and aesthetics.

### Integrity

As a fifth generation family business, we take extraordinary care to treat our customers, people and suppliers with respect. This creates trust and allows us to build mutually beneficial relationships.

### Performance

We are passionate about achieving results which exceed our customers' expectations. We are keen to listen to feedback that helps us continually improve.

## Ritchie Commitments

### Health & Safety

The Health & Safety of our employees is of paramount importance. We exercise a strict Health & Safety policy to minimise and eliminate risk in our work activities internally and externally.

### Environment

All staff at Ritchie are committed to minimising our energy usage, minimising material scrap, maximising recycling and minimising our CO<sub>2</sub> emissions.

### Local Community

We strive to promote local business links within our own community, as well as the wider East Coast of Scotland through the Tayside Engineering Network and The Angus Training Group.



Ritchie Factory, Forfar Scotland

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# Service Capability





## Service Capability

### Service Cycle

#### Requirements Capture

At Ritchie, we work with customers to understand the issues faced: from a concept idea to a physical problem we can work with notes, sketches or CAD drawings.

#### Concept Design

Our in-house engineering team will build up the product requirements, functionality and create 3D CAD models.

#### Detailed Design

Upon agreeing a conceptual design, we will undertake the detailed design with full CAD drawings, allowing integration with other equipment. All products are designed with user, operator and product safety as a priority.

#### Manufacturing

Procured through our comprehensive supply chain, materials are delivered; cut down; prepared; formed; fabricated and assembled to the highest standard. Onsite galvanising and painting facilities are available. If in-house capacity or onsite capacity is not available we will use our fully vetted and established network of vendors.

#### Testing

Products are certified in accordance with product load and drop testing requirements. Specially designed, calibrated equipment is used in order to ensure this is completed accurately and in a safe, controlled manner.

#### Certification

We are ISO BS EN 9001:2008 accredited. Welding procedures are approved via Lloyds and DNV GL. A DNV GL Manufacturing Survey Arrangement is also in place; offering an extremely cost effective certification regime.

Products supplied to:

DNV 2.7-1, DNV 2.7-3, EN 12079, EN 13769, ISO 10961, TPED, IMDG, IMO / MSC Circular 860

#### Delivery

With our own fleet of transport vehicles, Ritchie have flexibility to tailor delivery requirements.



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# Manufacturing Capability





## Manufacturing Capability

Currently, the majority of offshore products are manufactured at the Forfar site which boasts some of the best capability in Scotland:

### Tube Laser

- » 3D cutting, profiling and weld preparation of complex shapes in hollow & solid box, bar, tube and channel section
- » Self-fed; minimising setting-up time maximising up-time and shop capacity
- » 8.5m lengths, 220mm diameter section capacity; for large section jobs
- » 3.5KW CO<sub>2</sub> Laser; for fast cutting, minimising Ritchie and customer cost
- » Largest machine of its type in Scotland

### CNC Plasma & Oxyacetylene

- » Cutting and profiling up to 40mm thick steel
- » 3x2m bed size

### Other Capability

- » CNC Press Brake, CNC tube bending, drilling & punching

### Welding

We cater for carbon steel, stainless steel and aluminium welding with over 70 years experience. MIG/ MAG/ FCAW Welding procedures approved by DNV GL and Lloyds Register for a wide range of structural welding requirements.

- » Welding Procedures to BS EN ISO 15614-1:2004+A1:2009 & AWS D1.2
- » Welding Qualifications to BS EN ISO 9606-1:2013 & AWS D1.2
- » Brazing Procedures suitable for manifold production to BS EN 13134:2000
- » Brazing Qualifications to BS EN ISO 13585:2012
- » Coding to specific requirements can be organised where required

### NDT

- » In-house MPI service provided by PCN Level II qualified inspector
- » Dye Pen. and UT inspection can be arranged where required

### Load Testing

- » Hydraulic ram load test capability for product verification
- » Up to 60T in-house capability

### Galvanising

- » Onsite hot-dip galvanising facility operating to BS EN ISO 1461:2009
- » The UK's only fully automated product handling system, minimising processing time, maximising throughput, coating quality and operator safety
- » Widest galvanising tank in Scotland

### Coatings

- » As well as galvanising we offer shot-blasting, powder coating and wet painting to offshore standards; tailored to customer requirements

We are also able to make use of our comprehensive vendor network of vetted and approved suppliers.

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