

# Process Plant



EXPERTISE



COLLABORATION



INTEGRITY

- Stainless Steel
- Duplex & Super Duplex
- Nickel Alloys
- Carbon & Chrome Moly Steel

Righton Blackburns work closely with end users to understand specific applications in this diverse market.

Our extensive range of pipe systems are used throughout various industries from food processing, through biotech and pharmaceuticals, to water and waste treatment.

We understand that the quality of our material is paramount to our customers and all are sourced from premier European manufacturers, ensuring there is no compromise in quality and customers can be rest assured that they are in a safe pair of expert hands.

This is further demonstrated by our DWI (Drinking Water Inspectorate) accreditation, demonstrating that our products are approved for use in the public water supply.





# The specialist supplier of high performance alloys to the process plant industry



## Stainless Steel

Some of the most demanding industries to use stainless steel include the chemical, processing and oil & gas sectors who create a large market for stainless tanks, pipes, pumps and valves.

Special grades of stainless steel have been developed to offer greater corrosion resistance at a broad range of different temperatures and are used in desalination and sewage plants, food manufacturing processes, brewery tanks & wine making, housings and storage.

### Grades

Commercial  
1.4125 (440C)

Commercial  
1.4404 (316L)

Commercial  
1.4542 (17-4)

Precipitation Hardening  
1.4542 (17-4)



## Duplex & Super Duplex

Duplex alloys were originally created to combat corrosion problems caused by chloride-bearing cooling waters and other aggressive chemical process fluids. Super Duplex provides outstanding resistance to acids, acid chlorides, caustic solutions and other environments in the chemical, petrochemical and pulp & paper industries.

Applications include: heat exchangers and pipes in desalination plants, pipes in process industries handling solutions containing chlorides, cargo tanks, vessels and piping & welding consumables for chemical tankers.

### Grades

Duplex  
1.4462 F51

Duplex  
LDX 2101

Super Duplex  
1.4501 F55

Super Duplex  
254 SMO

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### Carbon & Chrome Moly Steel

Carbon steel is the most commonly used material in process plants and in most general refinery applications. It is routinely employed for most organic chemicals and neutral or basic aqueous solutions at moderate temperatures. Carbon steel pipes are widely used in industrial processes involving high heat, extreme cold, or even for transporting gases such as steam. Heating systems use thin-wall, straight bead, precision carbon steel pipes with a lower level of carbon content.

#### Grades

ST35.8/P235GH

ST45.8/P265GH

15Mo3

16Mo3

13CrMo44

10CrMo910

15NiCuMoNb5

12CrMo195/  
X12CrMo5

X12CrMo9-1

X20CrMoV12-1

X10CrMoVNb9-1

### Nickel Alloys

Nickel and nickel alloys are used extensively in the process plant industry due to their excellent properties such as corrosion, heat and pressure resistance. They are resistant to both aqueous and gaseous corrosion plus they can be used in environments from cryogenic to very high temperatures. Nickel alloys are widely used in the food industry as its corrosion resistance is high, therefore making it suitable for most food production and storage processes.

#### Grades

Alloy 400

Alloy 500

Alloy 625

Alloy 718





## In addition to our extensive product portfolio, we offer a variety of complementary services

- Mechanical Testing - In addition to NACE MR0175, we can offer bespoke mechanical testing including:
  - Brinell & Rockwell hardness testing
  - Charpy impact testing
  - Multiple directional testing
  - Lateral expansion testing
- Non Destructive Testing
  - Ultrasonic & dye penetrant testing
  - PMI
  - X-ray
- Type 3.2 Inspection - Third party inspection with witnessed test results and verification of materials identification and traceability
- Secure On-line Certification Access - We provide a password protected service to allow customers to access certificates
- Heat Treatment - Our range of high performance alloys can be supplied in a variety of conditions dependent on the application, many of which are attained through heat treatment
- Cutting - The latest automatic cutting equipment enables us to cut all grades of material
- Boring, Turning & Machining - Our services include: deep hole boring, gun drilling and milling & turning
- Forgings - A rapid turnaround service for the production of open and closed die forgings which can be manufactured proof machined, finished machined, fully tested and released to bespoke requirements



**Righton Blackburns is an independent metals and specialist plastics stockholder and distributor. We have been a trusted supply partner for premium quality products for over 100 years.**

Today we are recognised as the leading supplier to a diverse customer base including safety-critical markets, government agencies and departments, and FTSE 100 companies.

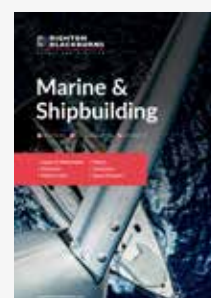
Our reputation is founded on both the efficiency and integrity of our business dealings, as well as our proven ability to innovate and respond to change. This strength and agility remain true today.

Operating from 10 Service Centres across the UK, we are well placed to service any requirement from one-off supplies, to direct-to-line feed services and long term contracts.

Dedicated to the continued development of new business and backed by our ISO9001-2015 status, we guarantee that exceptionally high-quality products and service will always be the Righton Blackburns' standard.

## Specialist Markets

For further information on the full range of products we supply into our specialist markets, please contact your local Service Centre to request a copy of the brochures dedicated to those specific markets.







## Service Centres

Operating a reliable and efficient delivery service from our 10 Service Centres nationwide, we offer in-house processing facilities. In addition to next day delivery from locally-held stock, we also provide non-standard or customer specific material.

### Bedford

+44 (0)1234 684 100  
bedford@rblimited.co.uk

### Birmingham

+44 (0)1384 282 630  
birmingham@rblimited.co.uk

### Bristol

+44 (0)117 948 2600  
bristol@rblimited.co.uk

### Cardiff Sales Centre

+44 (0)1656 683 900  
cardiff@rblimited.co.uk

### Glasgow

+44 (0)141 646 3730  
glasgow@rblimited.co.uk

### Leeds

+44 (0)113 386 3280  
leeds@rblimited.co.uk

### Manchester

+44 (0)1942 758 800  
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### Norwich

+44 (0)1603 243 900  
norwich@rblimited.co.uk

### Portsmouth

+44 (0)2392 623 070  
portsmouth@rblimited.co.uk

### Plymouth

+44 (0)1752 844 931  
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### Tonbridge Sales Centre

+44 (0)1732 582 700  
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