



Stothert & Pitt

Lifting the load...



world renowned cranes

Lifting the load...

for more than
150 years



In the beginning...

The foundations of Stothert & Pitt were laid in 1785 – over two centuries ago. George Stothert set up in Bath as an ironmonger and by 1815 the business was prospering under the control of his eldest son George.

In 1896, railway locomotives were manufactured at another site in Bristol managed by another son Henry. Within a few years the Bristol site became involved in iron shipbuilding and Robert Pitt joined the partnership.

Steam-powered mobile jib cranes were introduced early in the second half of the 19th century. As industry and trade developed throughout the world, so Stothert & Pitt supplied the equipment and machinery needed to assist in the handling of goods and materials, the construction of bridges, harbours, railways and



other engineering works. During these years one range of products became predominant – cranes. The next major development was the introduction of level luffing, which ensures that the load remains at a constant height as the angle of the jib is varied to alter the radius.

In almost any port in the world you will find Stothert & Pitt.

*'... In almost any port in the world
you will find Stothert & Pitt...'*

Stothert & Pitt Product Range

Dockside Cranes

High Integrity Cranes

Nuclear Handling Cranes

Naval Cranes

**General Purpose
Shipyard Cranes**

Offshore Cranes

Grab Ship Unloaders

Stern Discharge Systems

Consultancy



Stothert & Pitt



Maintaining the standards...

More than 150 years' experience in designing and manufacturing cranes has made Stothert & Pitt, now a subsidiary of Langley Holdings plc, a world leader in dockside & offshore cranes. This position is maintained with improved products, resulting from continuous research into better designs and manufacturing techniques.

Stothert & Pitt specialists are available to advise on the most suitable crane for a particular application

Manufacturing Facilities

Central to the Langley businesses are extensive manufacturing and assembly facilities of over 35,000 square metres at factories in the Midlands and North East of England. All contracts are efficiently undertaken under the control of our engineers, ensuring the integrity of the product.



Safety and reliability...

Reliability and safety are paramount in Stothert & Pitt's design philosophy. The company offers a range of specially developed systems and equipment which includes: Ultimate Protection System (offshore cranes) – which safeguards cranes against sustained overloading in the event of an entangled hook.

Wave Compensating System (offshore cranes) – helps crane drivers pick the most opportune moment to lift a load from the deck of a supply vessel in rough seas.

Load Indicating and Data Recording Equipment.

Ergonomic Cabins – offering the driver good all-round visibility, meeting the highest of standards.

'...reliability and safety are paramount in Stothert & Pitt's design philosophy...'

Lifting the load...



Dockside Cranes...

Rail mounted dockside cranes.

Wherever you go, Stothert & Pitt rail mounted dockside cranes will be found shifting the world's cargo.

The modern long-radius crane concept enables cargo to be offloaded over a maximum discharge area.

Rail mounting means economy in dockside construction, since crane weight is confined to defined areas. High portal clearance eliminates obstruction to free vehicle movement, avoiding road congestion and simplifying rail layouts for direct ship-to-rail working. Stothert & Pitt crane design is based on vast practical knowledge and experience of dockside handling problems.

Stothert & Pitt cranes are the vital link between ship and shore, planned for maximum convenience and highest throughput, with operating efficiency as the prime target. The high reliability, long operational life and low maintenance ensure



minimal overall operating cost. Maximum operator vision is a built-in feature of rail mounted dockside cranes. This ensures minimum damage to cargoes and less risk of injury. Work can proceed quickly and efficiently, with less risk of claims for damage. Goods are cleared quickly and speedy onward trans-shipment is accomplished. A well-designed and efficient crane is the critical link between



'...the vital link between ship and shore...'



'...Stothert & Pitt cranes can be found at ports throughout the world...'



Stothert & Pitt cranes are designed and constructed to meet international standards and regulations, including BS, FEM and DIN.

Multi Purpose Dockside Cranes

For ports requiring a high level of flexibility to suit differing commodities from different shipping lines operating on the same berth, the multi-purpose MPD crane solves numerous problems. The MPD offers all the advantages of normal rail mounted cranes but has been specially designed to handle general cargoes – on the hook, bulk materials – with a grab - or containers – with a spreader. Cycle times are impressive whilst ground loadings are significantly lower than harbour mobiles.

ship and shore that can mean so much to hard pressed port management.

A system of standardization in component design offers a choice of specification combinations and enables Stothert & Pitt to build cranes to match individual operational requirements at outstanding cost savings.

Specialised designs can be produced for capability outside the standard range.

Superstructures can be mounted either upon pintle columns or on totally enclosed bearing units and a variety of electrical control systems can be installed depending on individual requirements.

Multi-Purpose Dockside Cranes (MPD)
Capacity Range 30/40Te capacity
Max Outreach up to 30/40m
Attachment Hook, grab, spreader, magnet etc.
Features Modular/standard design. Choice of drive and control systems.

Lifting the load...



Offshore Cranes...

The discovery of oil in the North Sea presented Stothert & Pitt with a major challenge. It created a demand for rugged, reliable offshore platform cranes capable of operating in hostile conditions and to meet the rigid requirements of the oil industry. Stothert & Pitt brought 150 years of engineering experience and its full design and research facilities into action on the production of a dynamically designed range of offshore cranes.

Conventional methods of analysis, used in land-based crane design could not be applied. The effects created by the environment, exceptional heights of lift, long booms, load snatches and high speeds all contributed to high stress levels.

Working closely with user organisations, computer techniques were designed to simulate the behaviour of offshore cranes under load and sea conditions.



Prototypes were built and rigorously tested before designs of the cranes were offered to the market. The end result is a family of proven offshore cranes, widely regarded as the best in the world.



'...cranes capable of operating in hostile conditions and to meet the rigid requirements of the oil industry...'



Chevron
 Shell
 BP
 Mobil
 Conoco
 Hydrocarbons GB
 StatOil/Statpipe
 Britoil
 Total
 Marathon
 Norske Hydro
 Agip
 Amerada Hess
 British Gas
 Phillips

The cranes are a vital link in the supply lines to offshore platforms – they must operate reliably in all weather conditions, otherwise production may be lost. The selection and purchase of cranes merits careful consideration, and the guidance and experience of Stothert & Pitt is available to assist at the conceptual design stage of a project. The range of offshore cranes comprises both rope luffing cranes and ram luffing cranes, the latter being designed to give minimum headroom conditions.



'...must operate reliably in all weather conditions...'



Offshore Cranes

OS Range *Rope luffing design. Lifting capacities range from 8 to 60Te. Boom length up to a maximum of 60m. 6 different basic models.*

MP Range *Ram luffing design. Lifting capacities range from 5 to 60Te. Boom length up to a maximum of 50m. 6 different basic models.*

Lifting the load...



High integrity, naval and shipyard cranes...

Stothert & Pitt cranes can be found in naval dockyards, ship repair bases, shipbuilding yards and nuclear facilities worldwide.

High Integrity and Naval Cranes

Designed to the most stringent of standards, including seismic capability, these cranes can be used confidently to handle dangerous and hazardous loads such as explosives, ammunitions, weaponry and radioactive materials as well as general stores and provisions.

Lifting capacities up to 100 tonnes can be accommodated with dimensional parameters adjusted to meet individual customer requirements. Many safety features including overload and



'... these cranes can be used confidently to handle dangerous and hazardous loads...'



Naval Dockyard Cranes

Capacity Range Between 5 and 120Te

Features

Outreach depends upon design.

Cranes specifically designed according to customer requirements. High integrity design. Suitable for handling modern weapons



collision protection can be incorporated to meet the integrity targets required for specific installations. We have extensive experience in the preparation of Crane Safety Cases and site procedures, for approval by the Nuclear Safety Committees.

Shipyards Cranes

Stothert & Pitt can design, build and assemble on site a crane to meet exact requirements. Already



proven successful designs are available, providing they suit the customers' needs, at far greater cost effectiveness and delivery. Stothert & Pitt also supply an

extensive range of equipment for mounting on ships including deck cranes, capstans, windlasses, towing winches and will welcome any enquiry.

'... proven successful designs are available at far greater cost effectiveness and delivery ...'

Lifting the load...



Bulk Handling Cranes...

Bulk handling cranes were first developed by Stothert & Pitt in 1927, one such unit being supplied for coal unloading duties at a London power generation station. Subsequently, a range of machines has evolved offering straight or double-lever jibs with two or four rope grabbing, many of these cranes are now in use in ports around the world. Bulk handling cranes form a vital link in the distribution chain of raw materials from the producer to the consumer. The cranes and their associated lifting attachments are purpose-engineered to provide the most efficient method of handling the particular commodity, be it scrap metal, grains and animal feed, fertilisers, coal, mineral ores or other such cargoes.

Kangaroo cranes, with their in-built hoppers discharge directly from the vessel onto the ground transportation system – conveyors, road or rail vehicles – alleviating the need for costly towed or self-propelled hoppers. Productivity is of prime



importance in bulk terminals and Stothert & Pitt select only the most reliable machinery and electrical control systems to ensure maximum availability and low cycle times. Operator's cabs are positioned to give optimum visibility both into the ship's holds and the land-side facilities.



'...the ability of the crane to transfer loose bulk materials directly from ships' holds to land based moving conveyors...'



'... we will prepare a cost effective solution on the best means of modernising your crane...'

Throughlife support...

Upgrade to meet today's standards

Stothert & Pitt cranes are designed and manufactured with the aim of ensuring a long operating life. Their very robustness means it is often more economical to upgrade existing equipment than to buy new. We will prepare a cost effective solution on the best means of modernising your crane and carry out the work for you, as we have extensive experience of both our own and other manufacturers' equipment.

Reduced throughlife costs

With the introduction of new technology fewer spares parts are needed and, being standard components, will be cheaper than those required for older cranes. However, we are able to supply spares for older cranes as records date back to the turn of the century. Long term maintenance contracts are also available to meet specific requirements.

Technical Services

Our engineering expertise and design consultancy capabilities provide practical and innovative solutions.

These services include mechanical and structural design, advanced engineering analysis, seismic engineering and reliability/availability assessment. Our computing resources provide cost effective processing available as support to consultancy activities or a bureau service to supplement customers internal computer resources.



Despatch and installation...

Stothert & Pitt are experienced in the logistics of transportation and on-site assembly of large cranes and by working in conjunction with major ports, we have a facility to load-out cranes for shipment around the world.



Quality...the last reassuring word

We build equipment that endures some of the harshest environments on earth. Everything we do therefore conforms to the highest standards of quality and engineering. Our quality systems conform to the stringent requirements of BS EN ISO 9001.



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