

Nobles Lifting Equipment Catalogue

Fully supported by world class lifting & rigging engineering and technical services



**Your Trusted
Lifting & Rigging
Specialists**

Web Edition, May 2018



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Catalogue Legal Disclaimer

Cautions and Warnings

All products manufactured and distributed by A Noble & Son Ltd (“Nobles”) are sold with the express understanding that the end user is suitably trained and familiar with the safe, proper use and application of the product. If you purchase a product set out in this catalogue, you must ensure that the end user satisfies these requirements.

There are many Australian and/or International Standards that cover products sold by Nobles. This catalogue references some, but not all applicable standards. You should ensure that you are familiar with all standards applicable to any product which you may purchase from Nobles.

Working Load Limits (WLL) and Minimum Breaking Load (MBL) charts set out in this catalogue are applicable only to new or “as new” condition products. The Working Load Limit may be reduced significantly by the following:

- Wear
- Misuse and abuse/overloading

Application of non vertical loads (side loading) of equipment at angles other than those for which the equipment has been specifically designed has a severe effect on the strength and integrity of lifting gear. Generally, side loading must be avoided.

Pre-use visual checks must be conducted by all users of lifting equipment and regular third party visual inspections by a competent person are highly recommended. Nobles offers this third party inspection service via our Tech Inspect system. These regular inspections are essential in determining if an item is in a safe and serviceable condition or if it should be removed from service.

Commercial and industrial tolerances are applicable to all items catalogued. Responsibility for the correct use and application of the products set out in this catalogue is on the user of the product. General warnings as stated below apply to all lifting equipment. Item specific warnings are also listed throughout the catalogue and are generally referenced on the page where the item is displayed.

Do Not Weld!

Always consult the manufacturer prior to welding any product as this may affect the load rating. Nobles can help with any query you may have about welding.

Do Not Apply Shock Loads!

Special load ratings apply for shock load environments. Nobles can advise you on how shock loads can affect your lifting gear.

Beware of Temperature Extremes!

Excessive heat (or cold) can have an adverse effect upon lifting gear. Nobles can assist you with supply of specialised lifting gear for use under extreme conditions.

Disclaimer

The information in this catalogue is provided as a guide only. Whilst reasonable care has been taken in the preparation of this catalogue, to the maximum extent permitted by law, Nobles does not guarantee, and assumes no liability or responsibility for, the accuracy, reliability, completeness or currency of the information in this catalogue, or its usefulness in achieving any purpose. Users of the products set out in this catalogue are responsible for assessing the suitability of the products for their own purposes and performing their own engineering calculations before use of the products. Users are advised to always consult the current relevant Australian or international Standard. To the maximum extent permitted by law, Nobles does not accept any liability for any loss, damage, injury or expense incurred or arising by reason of any person’s use of, or reliance on, the information provided in this catalogue.

Why Nobles is a safe choice

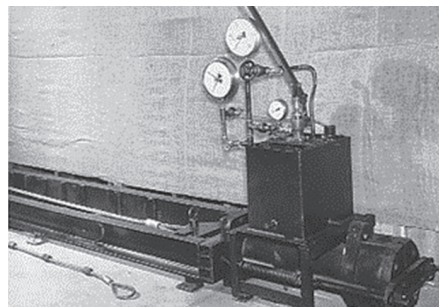
Nobles is a 100% Australian owned and operated company, founded in Adelaide in 1911. Since inception, Nobles has been dedicated to safety for major industries such as mining, oil & gas, construction, industrial, defence and manufacturing. Over 100 years of expertise in lifting & rigging equipment and services with safety, quality and reliability as core values mean these values are deeply entrenched in our culture.

To provide the highest level of customer contact and service for our clients, Nobles has branches located in all mainland Australian states and the Northern Territory. Our major state branches carry substantial stock and can undertake the manufacture and testing of our products. We offer a wide range of valuable and proven safety specific products and services to ensure that everyone goes home at the end of the day. We are passionate about how products and services are utilised by our customers to ensure optimal safety.

You are supported by a hub and spoke approach for national coverage, where our key branches in each region provide significant warehousing and distribution capabilities to support the extensive network of satellite branches. To this end the company is vertically integrated, with the ability to provide a complete lifting service package comprising the various elements of design, supply, service, engineering, manufacture, inspection & testing, repair, training and project management. This capacity encompasses both mechanical and electronic engineering, validated under NATA (National Association of Testing Authorities), Lloyd's, DNV or other testing protocols.



A. Noble & Son had a stand at the Royal Show in the late 1940s and early 1950s. Several products were of potential interest to farmers. The photo shows a post hole borer.



The tensile-testing machine: the original test bed after its initial modification.



Today, we have the most advanced systems available, with a program of investment to maintain safety leadership.

When safety and quality is everything, decide Nobles

Nobles operates under externally certified and audited systems for quality, occupational health and safety and environmental management in accordance with AS/NZS and International Standards (AS/NZS ISO 9001, AS/NZS 4801 and AS/NZS ISO 14001). We maintain strict safety and quality standards so we can offer superior functionality, improved safety, ease of use and greater durability and service. We identify and resolve safety issues in functional teams and share insights and knowledge created across the organisation, integrating improvements into our governance and training competency requirements for our staff, with updates shared with customers.

Deciding to work with Nobles, is a decision to opt for safety as the primary motivator. We cover all the safety bases, from training, testing, auditing and product development to creating complete solutions for lifting and rigging. Our dedication to delivering the safest lifting and rigging products, design and services, places an extra demand for excellence in every area of our operations.

We take safety to another level, with independent auditing to ensure that our day to day operations, processes and systems are continually monitored and improved and we welcome our customers to audit us. We have been successfully audited by many companies including special pre-qualification auditors such as Achilles and ISN.

Our long-held involvement with NATA, DNV, LEEA and other leading associations

Nobles maintains NATA accreditation for mechanical testing, certified visual inspection, non-destructive testing and calibration. Our mechanical testing can certify to 1,000 tonnes and we have testing facilities across Australia to test a broad range of lifting and rigging equipment, with proof load or destruction testing services available.

Our association with NATA, DNV, LEEA, and other leading associations, demonstrates Nobles' commitment to providing the safest possible choices with a focus on engineering excellence. Our quality processes ensure that lifting equipment tested by Nobles is in accordance with the relevant Australian Standard and on successful completion of the proof testing, will be in a safe and serviceable condition.



An Integrated Management System for real-time access and management of safety, injury management, environment and quality

Nobles' Integrated Management System (IMS) contains our complete suite of policies, procedures, forms and work instructions, providing easy access for management and employees across Australia. The IMS provides efficiency for corporate governance and management, such as on-line risk assessments, JSAs, internal audits, risk registers, incident injury reporting, corrective action requests, and a sub-contractor registry. Alerts are generated for reporting and taking action on all product and supplier-related issues as they occur. The Competency Management System (CMS) manages employee training and competency assessments, recording completed training and registered licences. Every employee is allocated a competency grading with an expiry date notification alert automatically generated.

Risk management

Nobles' business risks are regularly reviewed, identified and reported to the board on a monthly basis. Human risks are reported using LTIFR, MTIFR and FAIFR indicators, coupled with future initiatives for improving Nobles' performance.

Health, safety, environment and quality policies

Nobles has policies covering health, safety, environment and quality, which are available from our website, as well as comprehensive business governance policies that can be provided upon request. Nobles utilises a performance scorecard to monitor and report on Key Performance Indicators identified in our policies.



Why you can decide Nobles with confidence to supply lifting & rigging products

This brochure outlines the extensive range of products we supply and support. Each and every product we work with must fulfil one vital criteria – safety. So as you examine the contents, please keep in mind that if you decide to work with Nobles in any capacity or buy any product, you are deciding safety is a number one priority.

Quality products tested above and beyond international and local standards

Nobles partners exclusively with world class manufacturers and brands, and all of the product lines we stock are quality tested by us or the manufacturer. Nobles has close principal liaison with a number of local and international manufacturers who provide service support across many fields.

Manufacturing highly specialised products based on extensive lifting & rigging engineering expertise

We have a vast library of 'manufactured to standard' and specialised lifting gear, purpose built for lifting solutions. At our production plants we have the following facilities: forging, welding, paint booth, press, etching, NDT and machining.

We manufacture the following locally:

- Fabrication of lifting slings
- Specially designed lifting equipment
- Blocks, hooks, sheaves, swivels
- Rigging screws and turnbuckles
- Containers for Off Shore & DNV

Supply and support no matter where you are

Our hub and spoke structure of national branches provides customers with the convenience of quick service across Australia, even in the most remote locations. We also add value by carrying a large range of lifting gear at each site based on customer requirements. Our key branches in each region provide significant warehousing and distribution capabilities to support the extensive network of satellite branches.

To this end the company is vertically integrated, with the ability to provide a complete lifting service package comprising the various elements of design, supply, service, engineering, manufacture, inspection & testing, repair, training and project management.

Nobles stocks and sells quality products from the following world class manufacturers



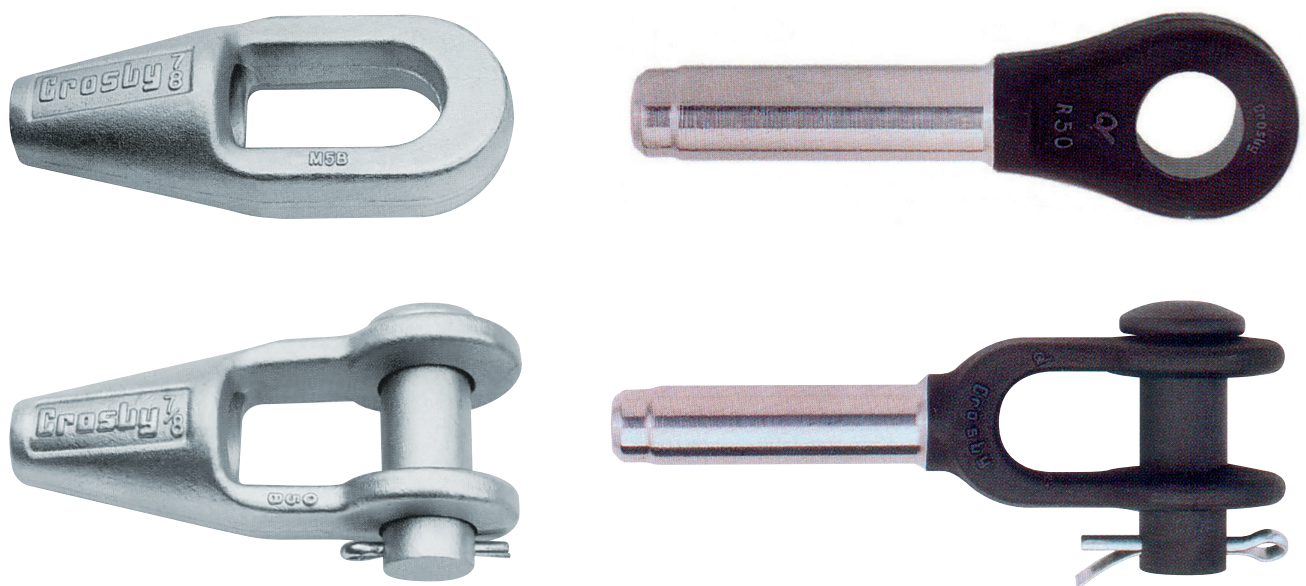
Wire Rope & Strand

Wire rope and strand is stocked in a range of diameters, constructions and tensiles, from general purpose six strand to high performance eight strand and rotation resistant types. Nobles wire rope stock profile covers small galvanised ropes from 1.5mm to heavy lift sling and tow ropes to 92mm. Nobles is also an authorised distributor for Bridon-Bekaert, The Ropes Group, high-performance wire ropes for crane, industrial, oil & gas and underground mining applications in Australia.



Wire Rope & Strand Terminations

Nobles manufactures a wide range of wire rope and strand terminations and stocks the Crosby Group range of sockets.



Wire Rope & Synthetic Slings

Wire rope slings are manufactured to order and produced in ferrule secured and flemish eye configurations. An extensive range of synthetic slings is also available, both in standard polyester and in Dyneema fibre for heavy lift applications.



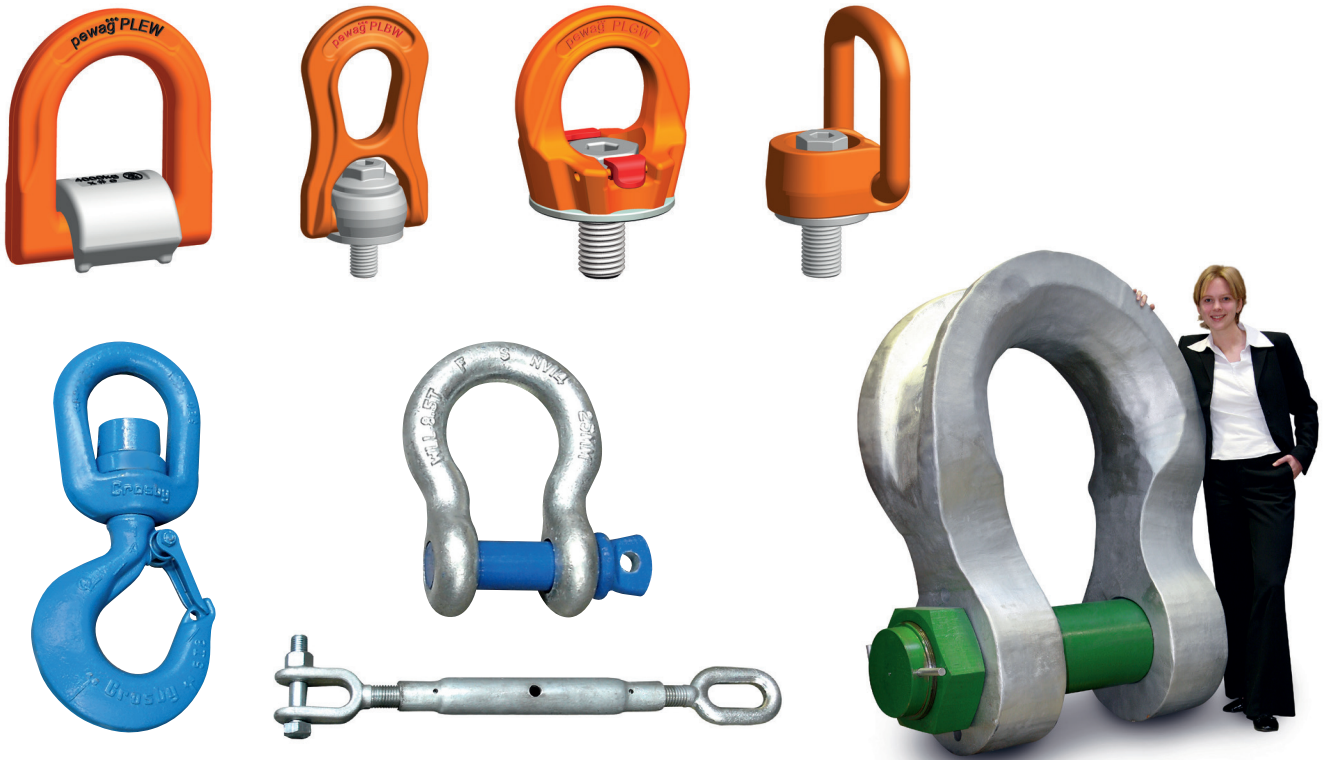
Chain Slings

Pewag Winner Grade 100, Grade 120 and Inox Grade 60 stainless steel chain slings can be assembled in various configurations and capacities to specific customer requirements. All chain slings are proof load tested after assembly and prior to despatch. Pre-made Winner Grade 100 chain slings are also available off-the-shelf in various sizes and configurations.



Lifting & Rigging Hardware

Nobles stocks a complete range of lifting and rigging hardware from hooks and shackles to the extensive range of Pewag lifting and lashing points.



General Purpose & Mooring Chain

Nobles is a leading stockist of galvanised hardware chain and Australian-made PWB Anchor proof coil chain, in both regular and long-link configurations. PWB Anchor Grade L chain is highly regarded for applications in the marine and mining industry.



Blocks & Swivels

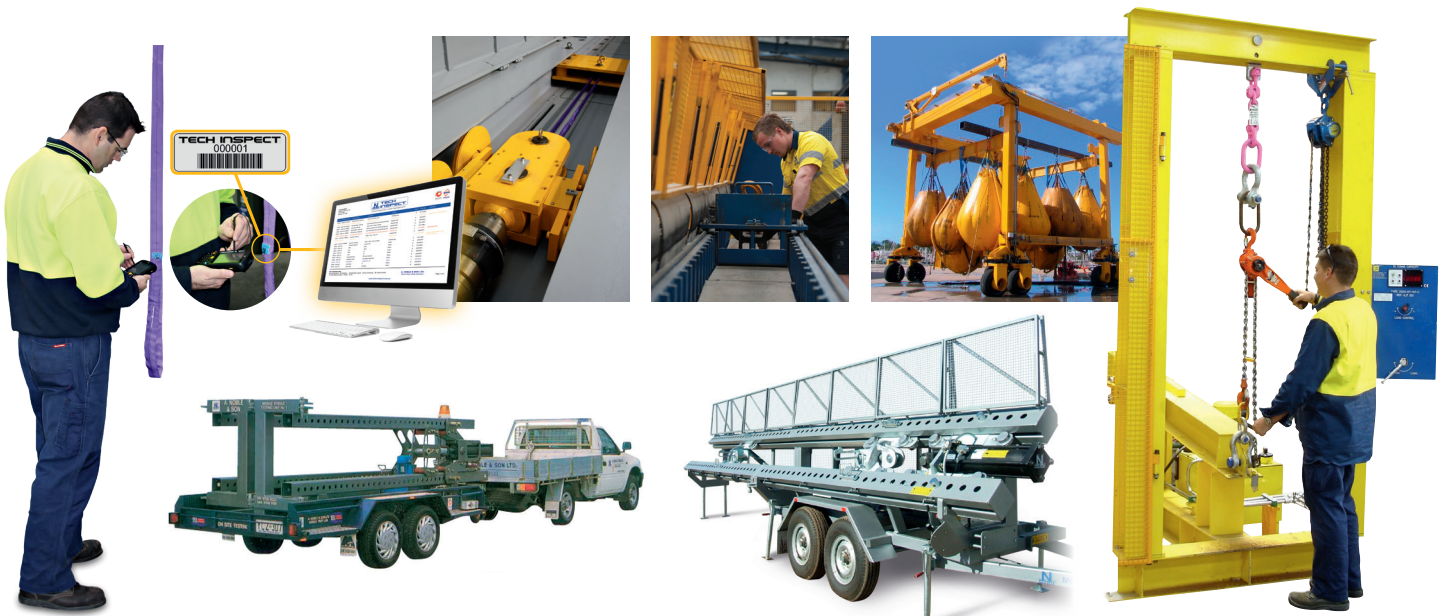
Nobles manufactures our own range of sheave blocks, sheaves and swivels in a range of capacities and configurations. Nobles' blocks have been in the market for many years and have an excellent reputation for durability in both lifting and recovery applications.



Services

Nobles offers a complete and extensive range of testing services that include in-house proof load and destruction testing and on-site testing services, including proof testing with mobile test machines, water weights and non-destructive wire rope testing. A repair service is also available for common lifting equipment items.

Nobles Tech Inspect is a completely computerised on-site inspection service for lifting, height safety, offshore lifting, load restraint and mooring equipment. Tech Inspect enables customers to view their assets on-line via a secure area of Nobles' website and offers various sorting and filtering criteria.



Hoisting & Winching

Nobles' Rig-Mate range of hoisting and materials handling equipment includes chain and lever hoists, girder trolleys and clamps, plate clamps, magnetic lifters and creeper winches. Nobles is also the exclusive Australian agent for Nitchi hoists from Japan. Ingersoll Rand air hoists and winches are also available.



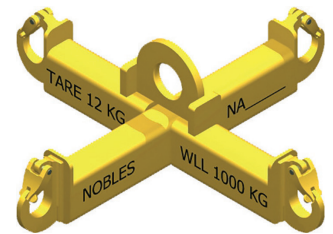
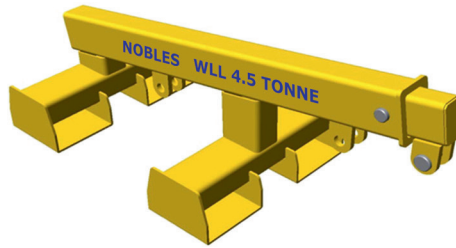
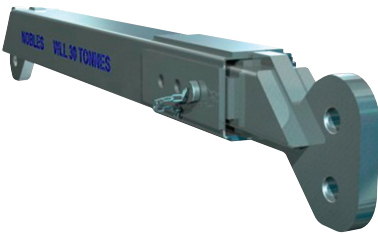
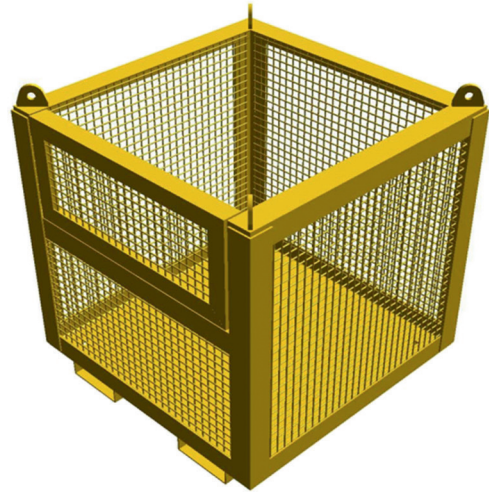
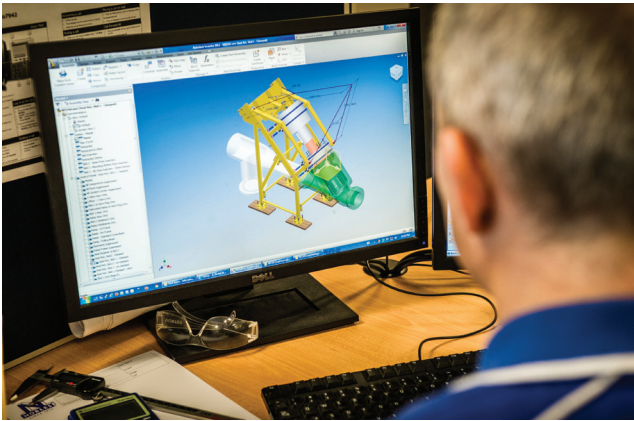
Height Safety

Nobles is a key distributor of the highly regarded German-manufactured Skylotech range of height safety equipment such as harnesses, lanyards, fall arrest devices and rescue systems. Engineered installed system solutions can also be scoped and provided.



Materials Handling

Nobles has in-house engineering design capabilities and the company stocks a range of high quality engineered products and is able to manufacture special lifting and materials handling devices for almost any application.



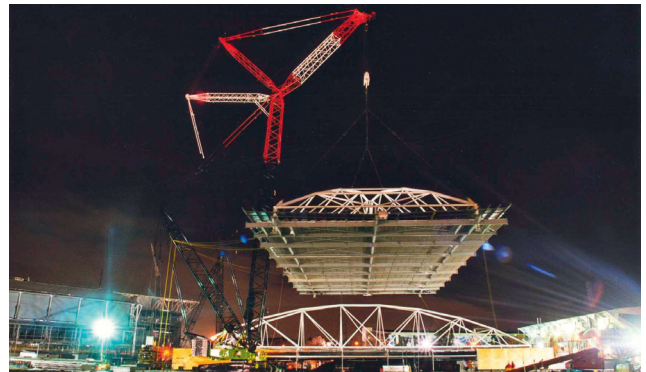
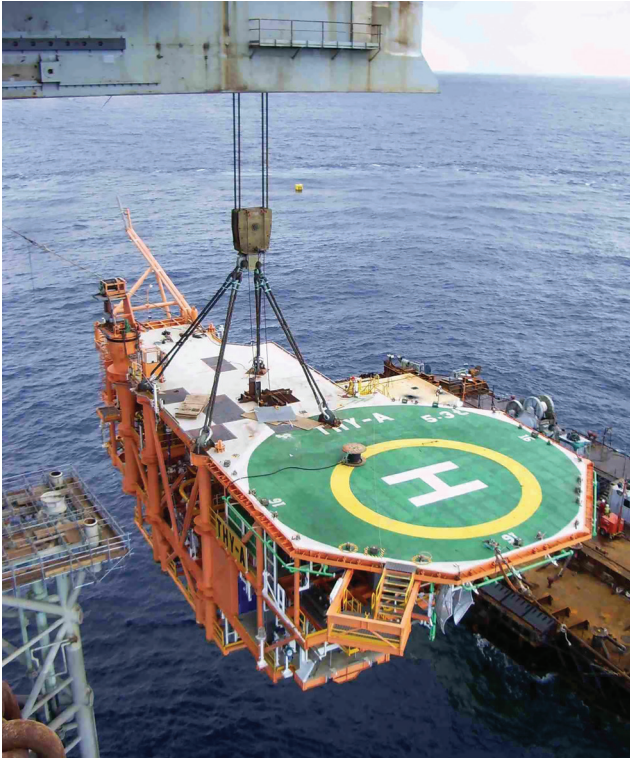
Electronic Load Measurement

Nobles manufactures a range of standard and special application load cells and stocks and supports the range of Rig-Mate and Load-Mate crane scales and lightweight aluminium load cells.



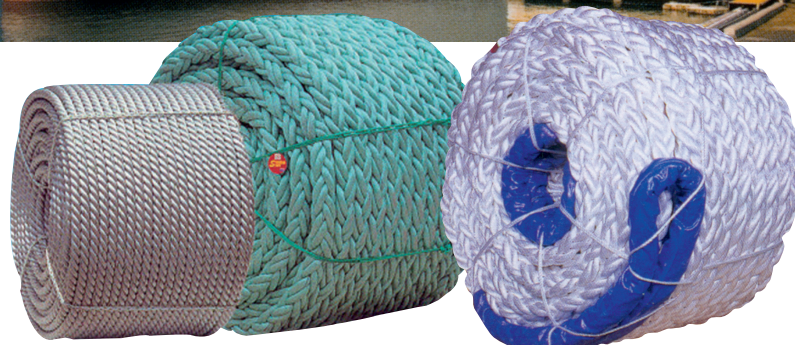
Big-Lift

Nobles' Big-Lift division, based in Adelaide, has the capability to produce very large wire rope slings in varying configurations. The Big-Lift division also has NATA accredited testing facilities to 1,000 tonne capacity.



Fibre Ropes

High tenacity polypropylene and polyethylene ropes are a speciality of Nobles. We carry extensive stocks of these ropes as well as the latest generation of PP/Polyester mix mooring ropes and high technology Dyneema ropes. Dyneema ropes provide extremely high breaking loads but are lightweight.



Load Restraint

A range of webbing and chain load restraint equipment is available under Nobles' Restraint-Mate brand. Componentry and fittings for the logging industry are also stocked in some branches.



Vehicle Recovery

Nobles' Recovery-Mate range of 4WD accessories includes snatch straps, tree trunk protectors, winch extension straps, recovery kits, grade 70 chain and components, off road blocks, blue pin shackles and the Rig-Mate recovery winch. High capacity towing strops to 300 tonne can be provided in a range of high tech fibres to ensure maximum towing capacity and durability for minimal size and weight.



Overview of Nobles' services

Nobles is much more than a supplier of lifting & rigging equipment. We provide world class services to ensure your operations are safe, no matter how specialised or complex your lifting & rigging requirements are.

Core lifting & rigging related services:

- **Engineering & Design** Design, manufacture and audits on standard and special lifting gear
- **Technical Advice** Develop customer lifting procedures, guidelines and lift plans
- **Repair & Maintenance** Assessment of lifting gear and cranes for repair and maintenance
- **Big-Lift Division** For heavy lift slings and testing
- **Manufacturing** Standard and specialised lifting gear
- **Testing & Inspection** In-house, mobile facilities and magnetic particle inspection
- **Non Destructive Testing** Wire rope inspection, MPI, dye penetrant, ultrasonic, eddy current, etc.
- **Destructive Testing** Product testing
- **Tech Inspect** Custom lifting gear asset management
- **Crane Servicing** Inspection, major 10 & 25 year service and assessment reports
- **Electronics** NATA metrology laboratory and load cell calibration
- **Project Management** Lifting gear procurement, site management and specialised services
- **Lifting Equipment Hire** Load cells and other lifting equipment
- **Technical Training** Seminars, literature and specialised training on-site
- **Water Weights** Highly specialised testing system for industrial and off-shore marine applications



Big-Lift

Nobles is one of the few companies in the world that is able to plan, design and execute a 600 tonne lift such as this offshore.

Achieving such a high level of engineering, with total control over safety, is testimony to our people and systems.



Engineering & Design

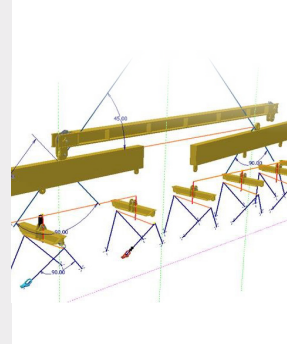
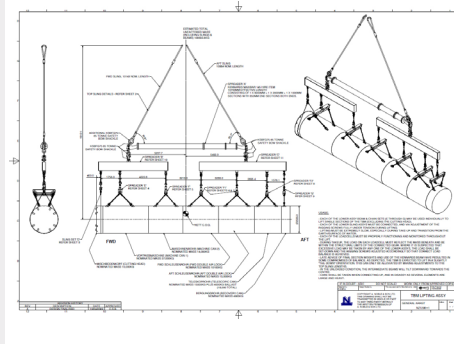
Specialised solutions for the most complex lifting & rigging requirements

Nobles has been involved in some of the most advanced lifting projects in Australia requiring exceptional engineering design, manufacture and supply. These types of projects are a high proportion of our sales, and showcase our unparalleled ability to create custom designed manufactured products. That is why, with great confidence, we can say that our engineering staff, systems and capabilities can provide a solution for any project. Nobles' engineers are located in our head office in Adelaide, providing a range of specialist lifting and rigging engineering services nationwide, including design, manufacture, assessment & upgrading existing designs and strip-down inspection & refurbishment.

Tunnel boring machine lift

Complete planning and design to lift a 150 tonne tunnel boring machine. This was the first of its kind.

Problem solving included lifting the entire machine without sectioning from a submerged state. Included was customisation of lifting beam assembly and all the lifting equipment, working from our designs.



Technical advice

With a specialised team of engineers for lifting gear, rigging, cranes, height safety, ropes and winching, you can count on gaining solutions to difficult problems or improving product performance in your industry.

A clear competitive advantage of Nobles is very simple. We are currently the only lifting gear supplier with our own highly trained engineers, which makes us the most responsive to unusual or complex requests. Examples of services include: custom lifting solutions for difficult lifts, custom lifting procedures and plans, lifting guidelines, lifting gear audits, accident reporting & investigations and crane assessments.

Repair & Maintenance

Nobles offers on-site or in-house inspection, testing and repair services, allowing rigging repairs to be conducted in all branches and on-site repairs and testing across the country. This offers minimal disruption to your business activities.

Big-Lift Division

The Nobles 1,000 tonne test machine is capable of applying a load over a 35 m length. Nobles Big-Lift Division also has a 2,500 tonne wire rope swaging press, making Nobles the leader in large wire rope sling supply in Australia.

Our test facility is regularly employed not only for our own manufacture but in the testing of customers' own equipment for proof load testing, destruction testing and R&D purposes.

Manufacturing

We have a vast library of manufactured standard and specialised lifting gear that we have purpose built for lifting solutions. At our production plants we have the following facilities: forging, welding, paint booth, press, etching, NDT and machining.



We manufacture the following locally:

- Fabrication of lifting slings
- Specially designed lifting equipment
- Blocks, hooks, sheaves, swivels
- Rigging screws and turnbuckles
- Containers for off shore & DNV

Testing & Inspection

Nobles has a team of experienced Test and Inspection Field Service Personnel operating throughout the country with the capacity to conduct regular inspections, on-site testing and ongoing maintenance and repairs. All of these services are available in-house at all of our branches or we can come to you; we currently service the most remote sites in Australia for oil & gas and mining customers.

We have test facilities at all of our branches, ranging in capacity up to 1,000 tonne or we can offer a mobile testing service of up to 30 tonne to any customer site. Other customer site testing can be conducted up to 600 tonne via fixed weights and calibrated load cells.

The testing & inspection we can provide:

- Lifting gear inspection, test, tag and repair
- CVI (Certified Visual Inspection)
- NDT (MPI, dye penetrant, eddy current, wire rope magnograph and ultrasonic testing)
- Proof loading
- Destructive testing
- DNV sling inspection, test, tag and repair
- Height safety inspections (including harnesses, lanyards, etc) and installations
- Condition monitoring of rigging and lifting gear, overhead and mobile crane ropes



We test everything as if our lives depend on it

Tech Inspect

Tech Inspect is Nobles' complete lifting equipment data management system that enables customers to view their lifting equipment register online via a secure area on the Nobles website.

We currently manage and track over 400,000 lifting and rigging products with 1,000 active clients.

Nobles was the first to market with an advanced data management system to register and track the quality of lifting & rigging assets.

Since then, Tech Inspect has undergone 5 major updates to maintain its leadership position as the most trusted system of its type. With a continual user improvement roadmap in place, Nobles ensures that Tech Inspect remains the right option for you to trust.

- Never have trouble keeping track of critical lifting, height safety and lifted equipment assets
- Always know if these assets are being inspected and maintained in a safe and serviceable condition
- Easily see how many lifting or height safety assets you have and what condition they are in, and how many of each type of asset you have
- Understand which assets are on different sites and where they are on the site
- Know when anything was last inspected and last tested
- Central storage of current test certificates and inspection reports
- Gain reports within hours after the inspection is conducted



TECH INSPECT



Crane Servicing

Nobles' Crane Servicing Department covers a wide variety of projects and is integrated with other departments to service larger and more demanding operations.

Areas of crane servicing expertise:

- Crane inspections and servicing
- Supply and installation of replacement ropes
- Assessment for continued safe use
- Major services 10 and 25 years
- Proof load testing and commissioning
- Third party inspections
- Crane upgrades
- Engineering inspections
- Supply and installation of new cranes
- Inspections of ropes and sheaves
- Design, manufacture, supply and installation of new replacement parts
- Crane reliability improvement
- Supply and installation of anti-collision systems
- Assessment for 'continued safe use' of overhead gantry cranes

Electronic Load Measurement

Nobles' Electronics Division has been both designing and manufacturing load cells and load indicating equipment for over 30 years and is regarded as a leader in this field. The Electronics Division has steadily expanded its scope over the years. Products offered range from simple off-the-shelf, ready-to-use products, to custom designed and engineered load cell solutions to meet specific customer requirements.

- Aluminium load cells with varying display options
- Static rope tensioning systems
- Overhead travelling crane safety and load indicating systems
- Safe load indicators for mobile and tower cranes
- Portable weighing systems
- Standard and custom, tension and compression load cells
- Custom design shear load pins
- Conveyor belt tensioning monitoring
- Ship loader, underground mining cage and skip load monitoring

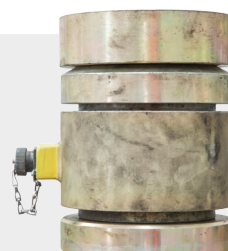
Nobles' Electronics Division has NATA accreditation for the calibration of electronic load cell equipment and complies with the requirements of ISO/IEC 17025 for force measuring devices and testing machines. We can verify the accuracy of your load cell and certify it in accordance with Australian Standard AS 2193.

Eliminate doubt around load safety

You can accurately determine the centre of gravity of your module/load, and the total weight as well as individual weights. NATA calibration certificates are supplied.



Up to 4 x 50 tonne compression loadcell system



Up to 6 x 150 tonne compression loadcell system



Up to 900 tonne display, total & individual weights

Fast facts about Nobles over 100 years

Founded	Adelaide in 1911.
Australian first	In 1957, Nobles became the first Australian wire rope distributor to manufacture Talurit mechanically spliced slings.
Australian first	In 1968, Nobles commissioned the then largest swaging machine and tensile tester in Australia for the offshore industry in Bass Strait. The construction engineers wanted products thoroughly tested and, if necessary, destruction-tested. Nobles built a 3,500KN test machine to meet this new demand.
Developing The West	In 1969, Nobles purchased an engineering business and concentrated on items for the offshore and the mining industries. Through the 1970s and 1980s the company established operations in Perth and Karratha in Western Australia.
Into the 80s & early 90s	Nobles took over the lifting gear operations of Spear & Jackson in Brisbane and Sydney in May 1983. In 1992, a branch was established in Darwin. Nobles built a 2,500 tonne swaging press to manufacture heavy lift slings. A 1,000 tonne capacity test machine was also built and commissioned for the testing of heavy lift slings and associated equipment.
Expansion mode	In recent times, branches have also been established in Roxby Downs (1997), Port Lincoln (1999), Newcastle (2002), Port Hedland (2005) and Mackay (2007). Nobles now has thirteen branches throughout Australia.
Australian first	Tech Inspect, an advanced data management system, to register and track the quality of lifting & rigging assets. Currently over 400,000 assets are managed across Australia.
Specialised in mining	The company has supplied wire ropes, Reliance Hexham suspension gear and other shaft equipment to all major areas of underground mining.
Going big in general industry	Nobles sheave blocks have become widely used. Blocks with up to 600 tonne capacity have been manufactured and proof load tested. The company has also provided hooks to 250 tonne capacity.
International development	Nobles' associations with overseas manufacturers producing the latest technology in synthetic slings enables us to offer the most technologically advanced solutions available. New fibre rope technologies include UHMWPE and high tenacity polypropylene and polythene to suit the commercial fishing, marine and towage industries.



Quality corporate citizenship

Nobles' commitment to quality extends throughout our operations to ensure that, as an enterprise, we contribute to our community, care about our environmental impact and ensure the continual health and wellbeing of employees. Extensive work has been undertaken to establish our policies, measure effectiveness and report on progress to the board, so that as a company, we are proud to know our positive performance as a corporate citizen.

Indigenous employment policy

Nobles has a commitment to improving the quality of life, equality of opportunity and the fulfillment of the diverse aspirations of Indigenous Australians. Where possible, we provide opportunities in employment, skills improvement and career development throughout Nobles for Indigenous Australians.

Waste management program

The program involves a national approach to recycling of renewables including plastics, paper and cardboards, coupled with reducing the number of waste collections.

Carbon reduction initiative

Nobles is active in the reduction of its carbon emissions as outlined in the company's Environmental Policy. Emissions reductions support the following documents:

- Environmental Policy
- Environmental Induction and Awareness

Manual handling injury prevention

In support of this procedure the company provides manual handling training to employees as an online course. Also available online are:

- Incident Management and Reporting
- All incidents and injuries are recorded in the company's online system
- Safety Committee, Procedures and Processes

