

MARINE • OIL & GAS • CONSTRUCTION • ENGINEERING • UTILITIES • RENEWABLES



**FOR EVERY WINCH  
YOU'LL EVER NEED**

**ATLAS**  
WINCH & HOIST SERVICES LTD.



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# WELCOME TO THE ATLAS GROUP

**Atlas are winch experts. We provide the most comprehensive range of powered winches, specialist lifting gear and cable pulling equipment for sale or hire in the UK.**

**We offer qualified, informed advice for the most demanding of lifting or pulling applications. An ISO9001 registered company, Atlas Winch and Hoist Services use a quality management system that covers our total activities and processes required to meet customers' expectations for top class products and service.**

## OUR EXPERIENCE

Atlas provides trained and experienced staff who understand their products and capabilities and have the expertise to recommend the right equipment for the job. Qualified service engineers and operators provide nationwide coverage from our two operational bases in the UK. We operate globally with partners in Europe, the Middle East, Singapore and South America.

The Atlas Group also includes Lifting Material Supplies.

"Our business is all about customer service and customer satisfaction, understanding your needs is the key element of our business"

**We aim to provide our customers with the best possible solutions.**

## SALES

We sell new standard products or bespoke designed winches, lifting and cabling equipment from internationally renowned suppliers such as Huchez, Marotechniek and Bagela.

## HIRE

A huge fleet of winches and specialist lifting equipment is available for hire. We stock a diverse range of winches and specialist lifting and cable pulling equipment from 25kgs to 500tonnes capacity.

## REFURBISHMENT

Used equipment sales – we service, refurbish, adapt or modify any winch. All works are fully warranted.

## SERVICE AND REPAIR

Qualified engineers and technicians are available nationwide, globally, onshore and offshore.

## INSPECTION AND TESTING

LEEA qualified engineers for full LOLER inspections, testing and crane maintenance.

## TRAINING

A full range of accredited winch operator training courses are specifically designed to suit our customers' needs.

**“** Our business is all about customer service and customer satisfaction, understanding your needs is the key element of our business. **”**

Company Directors  
**Anton and Denis Lavery**

Atlas are a family owned company, brothers Anton and Denis Lavery have more than 70 years combined experience working in the winch and hoist industry.

# OUR PARTNERS

The Atlas Group is proud to work with a wide range of global partners in delivering excellence for our customers. Over many years we have developed close working relationships with industry leading companies throughout Europe, Asia and the Americas.

These partnerships help us to develop and manufacture products and services tailored to our customers needs.

See below for a small selection of our global partners.

## Huchez – France

Atlas Winch and Hoist Services have been exclusive agents of French Winch manufacturer Huchez for over 10 years. Atlas have quick and easy access to the extensive range of Huchez hand, electric, petrol and diesel winches. We offer full after sales service, spares and technical support.



## Marotechniek – Netherlands

Atlas have forged an excellent relationship with renowned Dutch winch manufacturer Marotechniek. We provide standard and bespoke design and build solutions in both electric and hydraulic winches including power packs. This technical collaboration ensures Atlas can offer solutions tailored to our customers exact requirements.



## Lifting Material Supplies – UK

Lifting Material Supplies is a lifting equipment company that specialises in sales, inspection and testing services. LMS offer a 100tonne test bed, 300tonne wire rope press, LEEA qualified engineers and experienced staff. LMS manufacture specialist wire rope sling assemblies, and act as distributors for leading industry brands such as Crosby, Gunnebo, Tractel and William Hackett.



## Bagela – Germany

Bagela is a family-owned company from Germany which has built an international reputation in the manufacturer of cable laying technology and pipe renewal winches. Recognised as the industry leader, Bagela Grundowinches feature extensively in the Atlas rental fleet.



## SEB International – UK

SEB International are a leading manufacturer of cable laying equipment. For over 40 years SEB have developed one of the largest selections of cabling equipment found throughout the world. From winches to cable drum trailers, jacks and cabling accessories, all products available for sale or hire from the Atlas depots.



# ACCREDITATIONS

## WE BELIEVE IN ACCREDITATION

Accreditation is an independent assessment that ensures companies have the technical competence and integrity to deliver credible certified products and services. Atlas feel this is essential to building confidence and trust in our businesses.

That's why it's our policy to achieve accreditation for our services wherever possible.

Atlas can also provide approved LEEA training for winch operations, see page 41 for more information.

The Lifting Equipment Engineers Association (LEEA) is established across the globe as the leading representative body for all those involved in the lifting industry worldwide.

LEEA are the respected and authoritative representative body for every aspect of the industry, from design, manufacture, refurbishment, inspection and repair, through to the hire, maintenance and use of lifting equipment.

Atlas Winch and Hoist Services have been members of the Lifting Equipment Engineers Association for many years. Throughout this time we have developed our LEEA qualified engineers, year on year, improving and maintaining individual knowledge and skill base. Being members of LEEA gives assurance to our customers that quality and safety standards are constantly met. LEEA also gives us access to up to date legislation and a wide supporting network of experts in lifting across the U.K.



Lifting Equipment Engineers Association

Over the years Atlas Winch and Hoist Services has grown and developed its business always ensuring that quality, safety and service are central to every job, never compromising at any point.

Our ISO 9001:2015 accreditation gives further reassurance to our customers of our continued commitment to providing the very highest standard of service and quality control they are used to. It will also give new and potential customers a clear indication of the high quality standards we are committed to maintaining and developing within our continuous improvement program. It is a testament to the hard work and commitment of all the staff at Atlas that this accreditation has been achieved.



EUSR is an independent skills platform which provides recognised standards for the utility sector. It is operated by Energy and Utility Skills, the sector skills body for the gas, power, waste management and water industries. EUSR is designed to support industry employers and add value to the sector.

EUSR has a critical role in delivering the training and development needs of the power sector. It covers various categories related to plant used within the utilities sector and ensures quality assurance and processes are met by member organisations.

The training that Atlas Winch and Hoist Services offer for the safe use and operation of our utility related products; cable winches, cable drum trailers etc. is now recognised by EUSR. This is another reassurance to our customers of the high standards of quality and safety that Atlas promote and encourage throughout all aspects of our services.



“ Working with our partners means we're at the forefront in developing new products and services that benefit our customers. ”





# ATLAS WINCHES

Atlas have one of the largest fleets of winches available for sale or hire in UK, serving the UK, European and International markets. Whatever your industry, we have a winch suited to your lifting or pulling needs.

From small hand winches to larger, electric, air, hydraulic and self powered winches, Atlas have the winch. Or, if you're looking for a bespoke solution to a specific job our experienced team will design and build it for you.

The following pages give a small flavour of our winch range. We serve a diverse range of industries and sectors which include the following:

-  **CONSTRUCTION AND CIVILS** – Large infrastructure projects such as bridges and motorways.
-  **ENGINEERING** – Factories, warehousing and rigging applications.
-  **MARINE** – Mooring systems, vessels, quayside and port operations.
-  **POWER AND RENEWABLES** – Petrochemical, power plants and wind farms.
-  **UTILITIES** – Cable and pipe pulling equipment for gas, telecoms, water and electric.
-  **OFFSHORE** – Oil and gas and offshore energy applications.
-  **DECOMMISSIONING** – Provision of equipment for recycling redundant oil and gas platforms and installations.
-  **MINING AND QUARRYING** – Providing hoists, winches and rope for drilling, tunnelling and boring.



SALES • REFURBISHMENT • SERVICING • TESTING • HIRE • INSPECTION • TRAINING



# ELECTRIC WINCHES

At Atlas we supply electric winches for every lifting or pulling application from 50kgs to 200tonnes. A full range of winch options are available to suit your application – spooling gear, clutches, capstan/warp ends, lifting frames and skids. As well as bespoke control options, low voltage pendants, single speed, variable speed, wireless remote, constant tension, limit switches and load monitoring are available. We work with leading brands such as Huchez and Marotechniek.



**Huchez TR Boxster – Compact Multifunctional Electric Winch**

A range of lightweight portable winches for use in many applications. Many rope attachments and output options make these winches ideal for every job. Robust and compact, fixed and variable speed control options available.

Line Pull	<b>Range from 100kg – 2tonnes</b>
Max Rope Storage	<b>Up to 150m</b>
Line Speeds	<b>Various available up to 40m/min</b>
Power	<b>Electric – 240v 1ph, 400v-440v 3ph</b>
Design Type	<b>Fixed or variable speed</b>
Application	<b>Lifting/Pulling</b>



**Huchez Industria-Series 1 to 15tonnes – Compact Electric Winch**

A selection of compact industrial electric winches perfectly adapted for all standard lifting or pulling applications for loads ranging from 1 to 15tonnes. These robust machines are suitable for a number of different uses. Full range of control options available – fixed or variable speed. Local, remote and wireless. Suitable for indoor and outdoor applications.

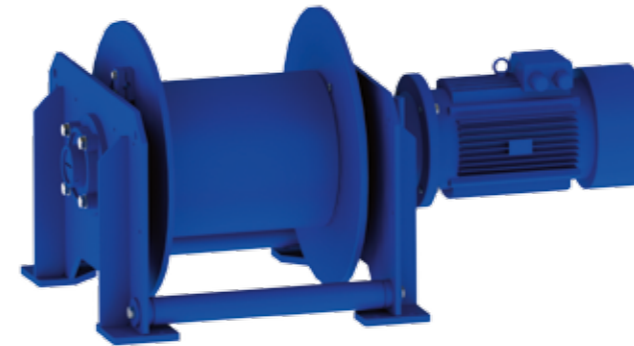
Line Pull	<b>Range from 1tonne – 15tonnes</b>
Max Rope Storage	<b>100m</b>
Line Speed	<b>Various available up to 10m/min</b>
Power	<b>Electric – 3ph, 50/60Hz</b>
Design Type	<b>Inline or right angle</b>
Application	<b>Lifting/Pulling</b>



**Huchez TE/TT/PL-Series – 600kg to 20tonnes**

A range of heavy duty electric winches designed for every lifting and pulling application up to 20tonnes as standard. Robustness and a large winding capacity allow them to address a wide range of uses in the most arduous conditions.

Line Pull	<b>Range from 600kg to 20tonnes</b>
Max Rope Storage	<b>Up to 500m</b>
Line Speed	<b>Various available up to 30m/min</b>
Power	<b>Electric – 3ph, 50/60Hz</b>
Design Type	<b>Inline or right angle</b>
Application	<b>Lifting/Pulling</b>



**Marotechniek MT-EPC series**

The MT-EPC electric planetary compact winch suitable for many applications. Standard build with high quality planetary winch drive. This Modular design allows for a full range of winch options, controls and configurations.

Line Pull	<b>Range from 1tonne – 50tonnes</b>
Max Rope Storage	<b>Up to 2000m</b>
Line Speed	<b>Various available up to 50m/min</b>
Power	<b>Electric – 3ph, 50/60Hz</b>
Design Type	<b>Multi options available</b>
Application	<b>Lifting/Pulling</b>



**Bespoke Build Solutions – We'll tailor it for you**

Beside our range of standard winches, Atlas offer a range of electric winches designed for your particular requirements up to 200tonnes. From conception to completion, consultation, survey, design, manufacture, test and commission. We offer a complete turnkey service. Global service available to meet clients needs, experienced qualified engineers with the necessary winch expertise to supply the best solution.

**Optional extras available include:**

- Drum guards
- Spindle limit switches
- Overload protection
- Variable speed control
- Drum press roller devices
- Constant tension
- Spooling gear



FOR A FULL RANGE OF OPTIONS, ACCESSORIES AND ATTACHMENTS – WIRE ROPES, SHACKLES, SLINGS AND PULLEYS – SEE PAGE 39.

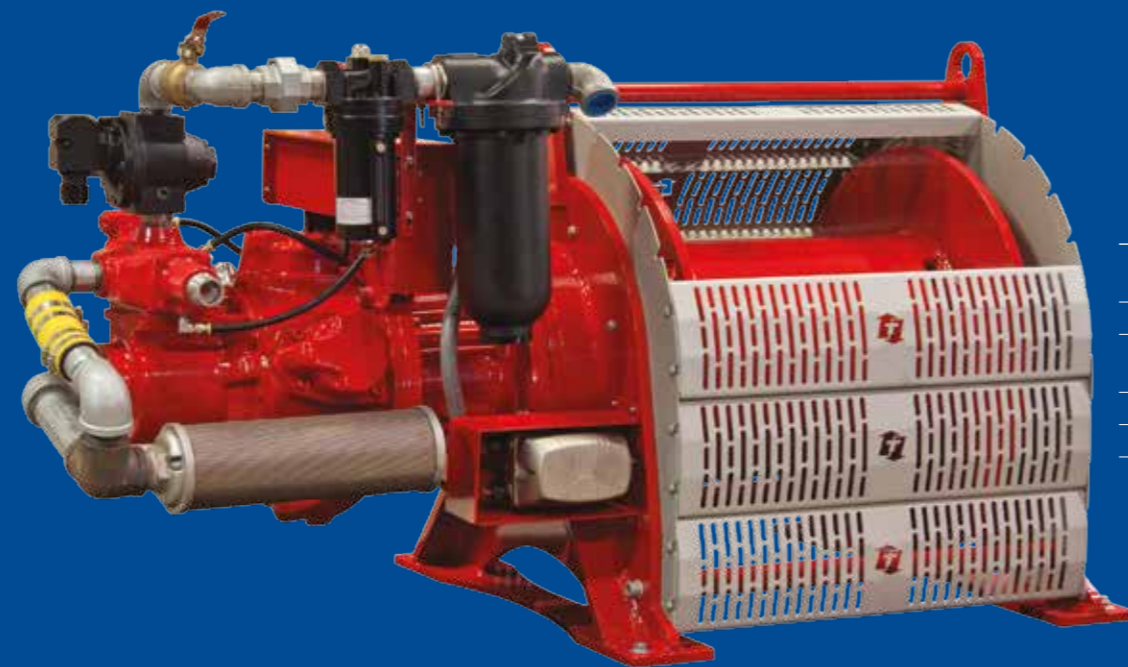
**Looking for a bespoke solution from conception to completion?**

Essex +44 (0) 1371 859 555 Scotland +44 (0) 1899 221 577 info@winchhire.com www.winchhire.co.uk



# AIR WINCHES

Air winches range from 500kg up to 20tonne units to handle the most demanding of lifting and pulling applications. With man-riding winches, automatic and manual brake options – the range includes the most respected names in the industry including Thern, Ingersoll Rand and Beebe. Choose an air powered winch from our extensive stock for hire or sale and we can specifically prepare, test and certify it to suit any application. DNV and ATEX certification available on request.



## Thern TA and C Series

The Thern's Air Winches feature new innovations that make them faster, lighter, safer, more versatile, and more corrosion-resistant than ever before. Thern winches are built tough to withstand the dust, dirt, grime, moisture, and debris that come with the most demanding conditions. Utility and manriding versions available. ATEX and DNV approvals available on all models

Line Pull	Range from 500kg – 20tonnes
Max Rope Storage	1,000mtrs
Line Speed	Various available up to 40m/min
Power	Pneumatic
Design Type	Planetary geared



## Ingersoll Rand FA Series

The Ingersoll Rand line of air winches incorporates the best ideas and innovations of Beebe International, Samia of France and the original Ingersoll Rand line of products. The combined experience of these companies adds up to over 200 years of solving the most challenging lifting, pulling and positioning applications in the world's toughest industries.

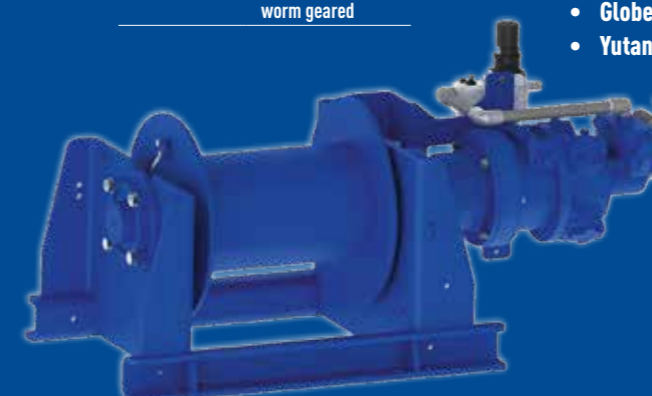
Line Pull	Range from 300kg – 10tonnes
Max Rope Storage	1,000mtrs
Line Speed	Various available up to 40m/min
Power	Pneumatic
Design Type	Planetary geared



## Atlas Euro Range

Air motor driven range of worm and planetary geared winches from 250kgs to 10tonnes line pull to suit a variety of lifting and pulling operations. Constant tension option available. Local and remote control plus full range of winch options and accessories.

Line Pull	Range from 250kg – 10tonnes
Max Rope Storage	1,000mtrs
Line Speed	Various available up to 40m/min
Power	Pneumatic
Design Type	Planetary and worm geared



As well as our range shown here, Atlas can specify an air winch tailored to your requirements. Winches suitable for a range of hazardous and difficult environments. These include – marine, shipping, offshore and man-riding applications, with a range of brake options and variable speed control.

We can supply from a range of respected manufacturers including:

- Beebe
- Samia
- Toku
- Globe Fenner
- Yutani

AIR COMPRESSORS AVAILABLE 150CFM – 1000CFM, AIR HOSES AND ACCESSORIES.

CONTACT US FOR MORE DETAILS.



# HYDRAULIC WINCHES

Choose Atlas for a range of hydraulic winches and power packs. These base mounted models are normally supplied within a crash frame, complete with lifting lugs. Spooling gear options are available on all models. Our friendly team can provide expert advice on winch systems to suit your specifications. We can supply closed and open loop systems to meet zoned specifications for use in hazardous environments. Atlas also supply a range of electric and diesel driven hydraulic power units, see overleaf for details.

## Transvictory

From Singapore we carry extensive stocks of the Transvictory Hydraulic / Marine winches. 10tonne / 20tonne/25tonne /45tonne and 60tonne winches are available from stock (single drum). We also stock 30tonne and 60tonne double drum waterfall winches. Standard drum capacity is 1,000mtrs. All with spooling gear, band brake and clutches, local or remote control.



## Braden PD and CH Series

A full range of the Paccar (USA) planetary geared hoisting winches designed and approved for lifting duties. Some models approved for personnel lifting applications by API (American Petroleum Institute). Winch sizes from 2tonnes to 60tonnes, fast speed options up to 150mtrs per minute possible. Rope capacities from 20mtrs to 1,000mtrs available, all with fail safe lifting brakes and controls.



## Brevini

A standard range of worm and planetary geared lifting winches from Italy. Compact designs to suit various applications in the onshore and marine, oil and gas markets. DNV and ATEX approved models are available. Capacities from 500kgs to 25tonnes. Drum capacities from 15mtrs to 500mtrs.



## Marotechniek MT Series

Our Dutch partners cover an extensive range of industrial and marine / offshore winches. An in-house flexible design team and quick build times mean Atlas / Marotechniek can react quickly to those urgent jobs. 500kgs to 50tonnes is the target range, spooling gear, clutches, constant tension, variable speed and "Smartload" technology options are available for data logging and monitoring.



**brevini** **MaRo Technik** **BRADEN** **PACCAR** **Transvictory**

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# HYDRAULIC POWER UNITS

Atlas supply a comprehensive range of hydraulic powerpacks designed to provide reliable, continuous power in remote and challenging conditions. We can supply diesel, electric and petrol units to suit every application. Delivery outputs range from 10-1500 litres per minute, pressures up to 350bar. Open and closed loop system with various control options.

Whether you are looking for a standard unit or bespoke design for a specific project, Atlas have the solution.

**HYCOS**  **Transvictory**

**Petrol**  
 Portable trolley mounted and skid based mounted compact petrol driven hydraulic power units. Output from 5 - 75litres per minute, operating pressures from 50 - 350bar. To operate various equipment from winches, jacking gear and hydraulic cylinders, hoists, hydraulic cutters, spoolers, cable pushers to cable tensioning equipment. With open and closed loop systems, local and remote control options available.



**Diesel**  
 Trailer and skid mounted HPU's to suit winch drives, spooling operations, subsea tooling, 'A' frames, vibro hammers etc. A full range of power outputs from 7.5Kw to 500Kw, hydraulic flow rates 10 to 1500litres per minute and operating pressures up to 350bar. Open and closed loop systems, local and remote control, fixed displacement, variable displacement pump options.



**Electric**  
 Skid mounted electric driven hydraulic power units, low noise level operation for a range of onshore industrial and offshore marine applications. These packs can be used to operate a range of equipment, winches, spoolers, hydraulic jacks, 'A' Frames, subsea tooling and cutting gear. With a choice of local and remote control, open and closed loop systems providing outputs from 5 to 1000litres per minute and operating pressures up to 350bar. Safe area and zone II versions available.



Queen Elizabeth Class Aircraft Carrier barge load out at Rosyth Scotland.

GIVE US YOUR FLOW RATE AND OPERATING PRESSURE REQUIREMENTS AND WE WILL FIND THE PACK FOR YOU.



# SELF POWERED WINCHES

## DIESEL/PETROL

Atlas can provide a full range of self powered or diesel/petrol hydraulic winch sets. Base mounted, single drum and double drum models are available from 500kgs up to 500tonnes, suitable for lifting and pulling applications. Control options available for local, remote and wireless operation. Smartload data logging technology is available for load, distance and speed monitoring. Wire lengths up to 3,000 metres can be offered.



### Sykes TR Series

Self-contained diesel / diesel hydraulic engine winches, Lister, Deutz and Cummins engine options.

**TR2 - 10tonne (lift) – 15tonne (pull)**

**TR3 - 15tonne (lift) – 25tonne (pull)**

**TR5 - 30tonne (lift) – 50tonne (pull)**

**Rope capacities up to 1,000mtrs x 50mm available**

## DIESEL/HYDRAULIC

### Hucnez TD Series

Construction site winches. These winches are independently powered and suitable for sites where no electrical power supply is available. Ideal for construction and civil projects in remote locations. Various local and remote control options available.

### Lebus/Transvictory

Skid mounted or separate HPU driven winch sets available from 5tonnes to 180tonnes capacity, modular sizes: 10tonnes / 20tonnes/ 25tonnes/ 30tonnes/35tonnes/ 45tonnes/ 60tonnes /80tonnes / 100tonnes /150tonnes/ 180tonnes. Single drum, double drum, 'waterfall' and 'side by side' configurations possible. Spooling gears, clutches, local and remote control, constant tension and load monitoring options available.



**LEBUS** **SMATCO**  *Transvictory* *Skagit*

IDEAL FOR QUAYSIDE MOORINGS, MARINE SLIPWAYS, BEACH CABLE AND PIPE PULLS.

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 [info@winchhire.com](mailto:info@winchhire.com)

 [www.winchhire.co.uk](http://www.winchhire.co.uk)



# HAND WINCHES

Hand winches are a versatile tool for lifting or pulling operations in a wide variety of industrial, commercial and leisure applications. Capacities can range from as little as 50kgs up to 10tonnes from our standard range which includes hand winches from French manufacturer 'Hucnez'. Base and wall mounted models are available as well as spur and worm gear designs. Most models can be offered with a galvanised or painted finish or a fully stainless steel construction for all working environments. Bespoke options include split-drums, multiple rope outlets and man-riding specifications.

## Hucnez Manibox GR and VS Models

The Manibox design is simple and robust and offered in Spur Gear (GR) and Worm Gear (VS) versions to suit various applications and mounting situations.

Line Pull	<b>Up to 3.5tonnes</b>
Max Rope Storage	<b>38metres</b>
Power	<b>Manual</b>
Design Type	<b>Spur and Worm Gear</b>
Application	<b>Lifting/Pulling</b>

## Hucnez Barge and Contractors Winches

Barge and Contractors 'Crab' winches are heavy duty and rugged. Ideal for jobs such as connecting barges, pulling vehicles and wagons or anchoring/mooring applications.

Line Pull	<b>Up to 10tonnes</b>
Max Rope Storage	<b>400metres</b>
Power	<b>Manual</b>
Design Type	<b>Straight cut gearing</b>
Application	<b>Pulling</b>

## Thern Spur and Worm Gear Winches

An alternative range of spur and worm geared hand winches offering different duties and rope capacities for both lifting and pulling situations.

Line Pull	<b>Up to 4.5tonnes</b>
Max Rope Storage	<b>260metres</b>
Power	<b>Manual</b>
Design Type	<b>Spur and Worm Gear</b>
Application	<b>Lifting/Pulling</b>

**HERN THOMPSON HUCNEZ**



# DECK CAPSTANS

Atlas capstan winches provide excellent mooring solutions for marine handling. Installed on board vessels or on the quayside they provide mooring for hawsers, ropes and wire cables. Atlas supply electric, hydraulic and pneumatic drive options up to a capacity of 40tonnes. Our range includes vertical and horizontal orientations with a selection of control options including foot, remote pendant and wireless radio control.

**HUCNEZ LEBUS MaRo Technik**



## Horizontal Capstan Drives

Surface and flange mounted versions available, electric or hydraulic units. Line pulls from 250kgs to 40tonnes. Quick release hooks and load monitoring options available.

## Vertical Capstan Drives

Head diameters from 90mm to 1400mm possible, to suit rope and wire diameters from 6-250mm. Hydraulic and electric drives. Exd / ATEX approved versions available. Pendant, foot switch and wireless controls are all available. Surface or subsurface mounts available.

ATLAS ARE SPECIALISTS IN MOORING ARRANGEMENTS AND MARINE HANDLING. SEE OUR MOORING SYSTEMS ON PAGE 21.



# WINCH ACCESSORIES

## LOAD MEASURING AND MONITORING EQUIPMENT

As well as our extensive range of winches, Atlas can supply and hire all the ancillary equipment you may ever need. Look no further for the supply of common winch accessories such as load monitors, static load gauges and running line monitors. We can also supply and manufacture bespoke items to suit your requirements. Many devices are available with data logging, printing and down load capability. All our winch accessories are available for sale or hire.

### Running Line Load Monitors

Ride on, saddleback devices that run on the active part of the winch / hoist ropes. From 10mm diameter to 120mm diameter, loads from 1tonne to 500tonnes. Local, LED Display, hand held and wireless control options. Smartload® data logging and print out features available. Load, distance and speed information can be monitored and recorded.



### Static Line Tension Meters

For the measuring of loads in static and active rigging. Guy ropes on mast towers and flare stacks. Local, hand held and wireless control options. Smartload® data logging options available, wire sizes 6mm - 102mm.



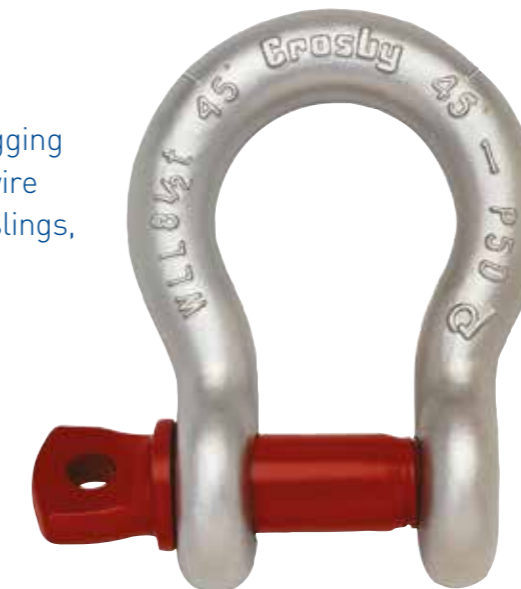
### Loadcells and Load Shackles

Loadcells - Standard Loadcells from 20kg to 250tonnes capacity for various load measurement and testing applications. Many models available with additional wireless LCD displays.

Load Shackles - 1tonne to 500tonnes capacities available for load measurement. Weight checks, proof load testing, pile testing etc. Range of designs and dimensions to suit all applications "bespoke" special units designed and manufactured with Smartload® data logging technology available.

## SNATCH BLOCKS, SHACKLES MULTI SHEAVE ROPE BLOCKS

To complement our broad range of winches, Atlas can supply an extensive selection of associated rigging equipment. We hold the largest range of snatch blocks, sheaves and fairleads available for hire or sale in the UK. We can supply shackles up to 1,000tonnes, rigging blocks up to 3,000tonnes and a full range of wire rope. For wire rope, custom made wire rope slings, chain slings, and wire rope fittings see Lifting Material Supplies on page 39.



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FOR RENTAL, FOR SALE - FULL CALIBRATION SERVICE AVAILABLE.



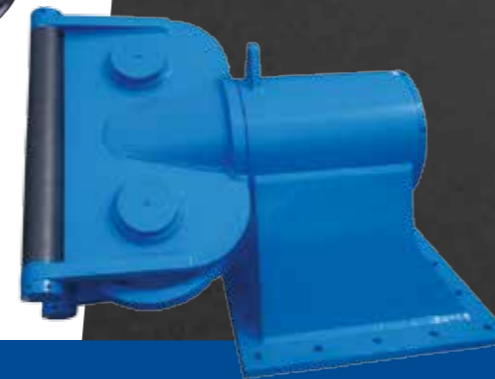
# MOORING SYSTEMS

Over the years, Atlas have been renowned for the design and supply of 4, 6 and 8 point mooring systems for crane and excavator barges, offshore supply and survey vessels. The mooring system could range from a simple single rope or wire holding a small boat, to a buoy, through to an 8 point winch system using large anchors. We're committed to working closely with all of our customers. A detailed appraisal of the vessel, local sea and sea bed conditions, operating criteria and anchor loadings will be undertaken to find the appropriate solution.



#### Swivel-head Fairleads

Single and double sheave wire rope and fairleads available from 12mm – 102mm wire rope diameter. Base and flange mount options. Loadings of up to 250tonnes available for sale or rental. We also have Chain fairleads available on request.



#### Can Buoys

Anchor buoys and pennant wire buoys available to suit anchor sizes 100kgs to 20tonnes. Hawse pipe and Admiralty pattern buoys available. Navigation and marker light options available.



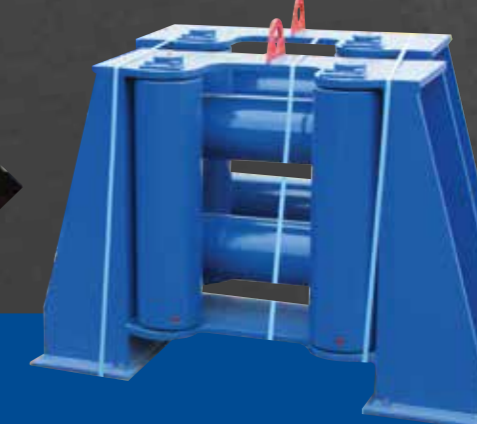
#### Anchors

Flipper Delta style and Stevpris anchors available for all seabed conditions 100kgs to 20tonnes weight, high holding power characteristics. Full Pennant line options available, anchor swivels and chain also available.



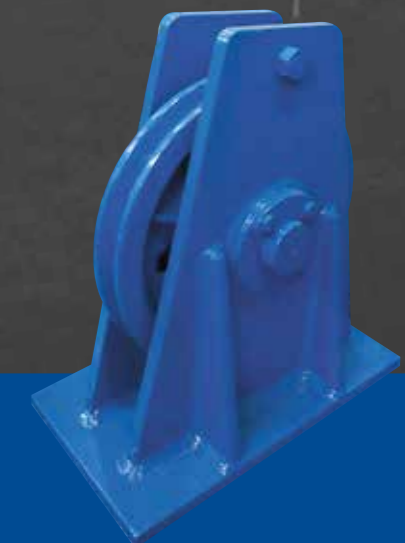
#### Multi Angle Universal Fairleads

Standard 4 roller fairleads, 5,6 and 8 roller versions available. 'Open top versions' are also available. Roller diameter 50mm to 600mm, rope sizes 10-250mm.



#### Deck Sheaves

Horizontal and vertical deck sheave assemblies used for diverting and guiding winch wires around the deck. 10mm to 120mm rope diameters catered for. Maximum loading 250tonnes.



FCBC JV Queensferry Crossing central tower foundation 4 and 6 point crane barge mooring systems.

DESIGN CONCEPTION TO SUPPLY COMPLETION, RENTAL OR SALE.

INSTALLATION AND COMMISSIONING SERVICE AVAILABLE.



# UTILITIES WINCHES AND EQUIPMENT

Over the past 10 years Atlas have established themselves as a leading provider to the utilities sector for winches, cable drum trailers, cable drum jacks and a host of cabling and pipe pulling ancillary equipment. Portable and trailer mounted winches for pulling power, telecoms and fibre-optic cable are available as well as machines for water, gas and other pipe pulling applications. Atlas now also feature winches for overhead power lines and tower erection work to enhance their comprehensive range. Increasingly popular cable pushing machines are available in petrol or electric formats.

Cable drum trailers with payloads from 800kgs to 50tonnes can be offered and Atlas possess the largest hire fleet of its kind in the UK. Pipe coil trailers, cable drum jacks and a wide range of accessories are also available for hire and sale.

Established relationships with key manufacturers in the UK and Europe such as SEB International, Bagela/Grundwinch, Tesmec and Plumett means Atlas can offer you the best possible equipment for your project.



SALES • REFURBISHMENT • SERVICING • TESTING • HIRE • INSPECTION • TRAINING



# CABLE WINCHES

Atlas can supply winches to all utility sectors including power, telecoms, water and gas. We have become specialists in this field and have the largest, most comprehensive hire fleet of its kind in the UK. Pulling capacities of up to 100tonnes and bond lengths in excess of 1,500metres are possible. Road towable, site and track mounted chassis options are available for every site situation. Most machines are also equipped with computerised data logging/printing facilities. Special electric winches, Minifors and Tiraks available for internal and riser/service shaft cable pulling applications. Operator training, servicing, repair, inspection and testing is also available across the range.



## Bagela/Grundwinch – KW Range from 2 to 10tonne

A range of high quality trailer mounted winches for cable and pipe pulling applications. Most models are available with data-logger recorder/printers and other options such as side capstans and boom attachments.

Line Pull	<b>Range from 2 – 10tonnes</b>
Max Rope Storage	<b>500 to 1500metres</b>
Line Speed	<b>30 to 70m/min</b>
Power	<b>Diesel</b>
Design Type	<b>Twin bull-wheel</b>
Application	<b>Cable and pipe pulling</b>



## Bagela/Grundwinch – RW Range from 2 to 40tonnes

Similar to the KW range but with the added benefit of 'Constant Tension' making these winches ideal for pipe cracking/bursting applications. High capacity models of 20 and 40tonnes are also available.

Line Pull	<b>Range from 2 – 40tonnes</b>
Max Rope Storage	<b>400 to 1200metres</b>
Line Speed	<b>15 to 60m/min</b>
Power	<b>Diesel</b>
Design Type	<b>Twin bull-wheel/constant tension</b>
Application	<b>Cable and pipe pulling, pipe cracking</b>



## Jakob Thaler Line Range Cable Pulling Winches

A broad range of trailer mounted cable hauling winches with a robust and solid design. The 'Line' series of winches offer many different combinations of line pull and rope storage capacities. Various data-logging options are also available across the range.

Line Pull	<b>Range from 2 – 10tonnes</b>
Max Rope Storage	<b>500 to 2200metres</b>
Line Speed	<b>45 to 85m/min</b>
Power	<b>Diesel</b>
Design Type	<b>Twin bull-wheel</b>
Application	<b>Cable and pipe pulling</b>



## Tesmec – AMC Range, 3 and 5tonne

Highly flexible winches from market leader Tesmec are ideal for tower erection and other lifting jobs as well as stringing operations of low and medium voltage overhead lines. Some machines also feature an additional side capstan.

Line Pull	<b>3tonne and 5tonne</b>
Max Rope Storage	<b>Up to 800metres</b>
Line Speed	<b>83 to 100m/min</b>
Power	<b>Diesel</b>
Design Type	<b>Drum design</b>
Application	<b>Lifting and overhead stringing work</b>



## BESPOKE REQUIREMENTS

Special, non standard versions available up to 100tonnes and rope lengths in excess of 2,000metres on request.

SEE OUR CABLING ACCESSORIES ON PAGE 35.



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ScottishPower Beauty Denny Line



# CABLING CAPSTANS

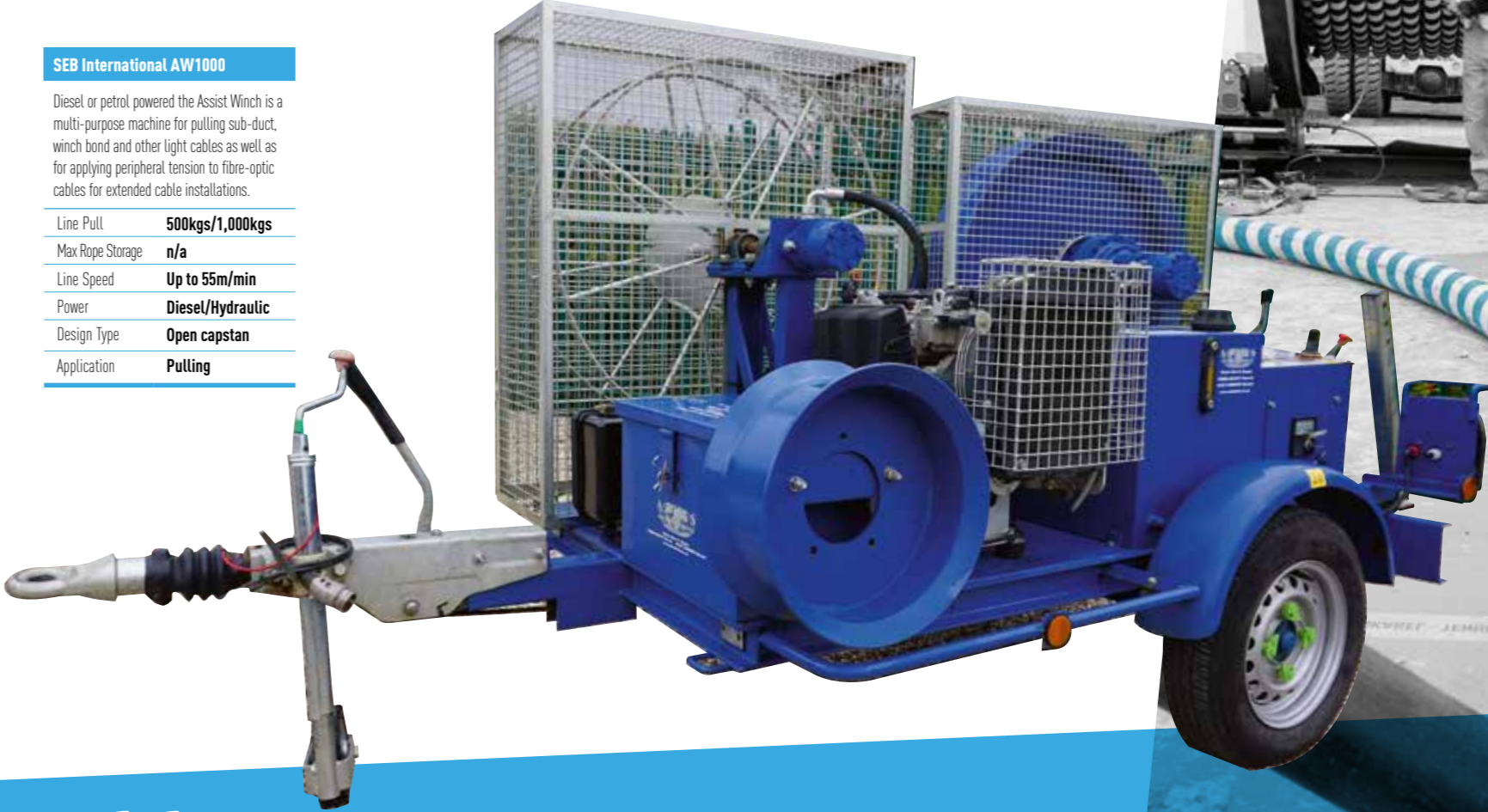
## TRAILER MOUNTED

Originally designed for use by the telecommunications industry these machines are now popular as multi-purpose utility winches for light-medium power cable, sub-duct and pulling winch bond as well as for fibre-optic, coaxial and other data cable applications. In recent years capstan winches such as the SEB International CW3000 have also been adapted for light cable recovery work to good effect showing the all-round versatility of these machines.



SEB International CW3000	
Line Pull	<b>3,000kgs</b>
Max Rope Storage	<b>n/a</b>
Line Speed	<b>Up to 30m/min</b>
Power	<b>Diesel/Hydraulic</b>
Design Type	<b>Open capstan</b>
Application	<b>Pulling</b>

SEB International AW1000	
Line Pull	<b>500kgs/1,000kgs</b>
Max Rope Storage	<b>n/a</b>
Line Speed	<b>Up to 55m/min</b>
Power	<b>Diesel/Hydraulic</b>
Design Type	<b>Open capstan</b>
Application	<b>Pulling</b>



SEE OUR CABLING ACCESSORIES ON PAGE 35.

“Atlas Winch and Hoist Services are a valued and critical part of our supply chain who always provide an excellent service. They go above and beyond their role as a supplier of specialist cabling plant and always provide a solution to the problem. Their extremely knowledgeable team are always happy to help and provide technical support when required. Keep up the good work. Mark Dewar, EHV Projects Manager, H&Askham Group.”



# CABLING CAPSTANS

## PORTABLE

Atlas offer a number of portable capstan winches ideal for pulling telecoms cable or light power cable. Power options include 110volt electric and petrol engine machines for both indoor and outdoor site conditions. Some models also feature a twin capstan design to provide 2 different pulling capacities and speeds depending on your needs. Lightweight and compact, these winches can be easily handled and many have a set of wheels for easy manoeuvrability.



### 110volt Cable Puller

This cable puller is the ideal solution to cable pulling in difficult locations. The electric motor makes it well suited to internal, underground or other confined space situations. The twin capstan arrangement provides 2 speeds and capacity options and the foot controls are easy to use.

Max Drum Pull	<b>1,500kgs/2,500kgs</b>
Max Rope Storage	<b>n/a</b>
Line Speed	<b>2.5 and 4m/min</b>
Power	<b>110volt electric</b>
Design Type	<b>Open capstan (x2)</b>
Application	<b>Pulling</b>

### King KN1000

A stalwart of the cabling industry the petrol powered King winch is a proven tool for pulling telecoms and power cable. Recent models benefit from full guarding and emergency stop features. 1tonne hauling capacity and pulling speeds of up to 27m/min make it a versatile machine.

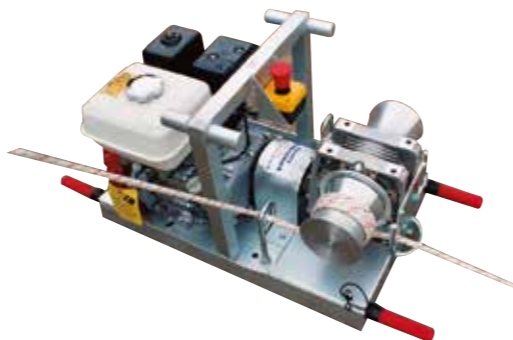
Line Pull	<b>1,000kgs</b>
Max Rope Storage	<b>n/a</b>
Line Speed	<b>Up to 27m/min</b>
Power	<b>Petrol</b>
Design Type	<b>Open capstan</b>
Application	<b>Pulling</b>



### Goodwinch PP1000

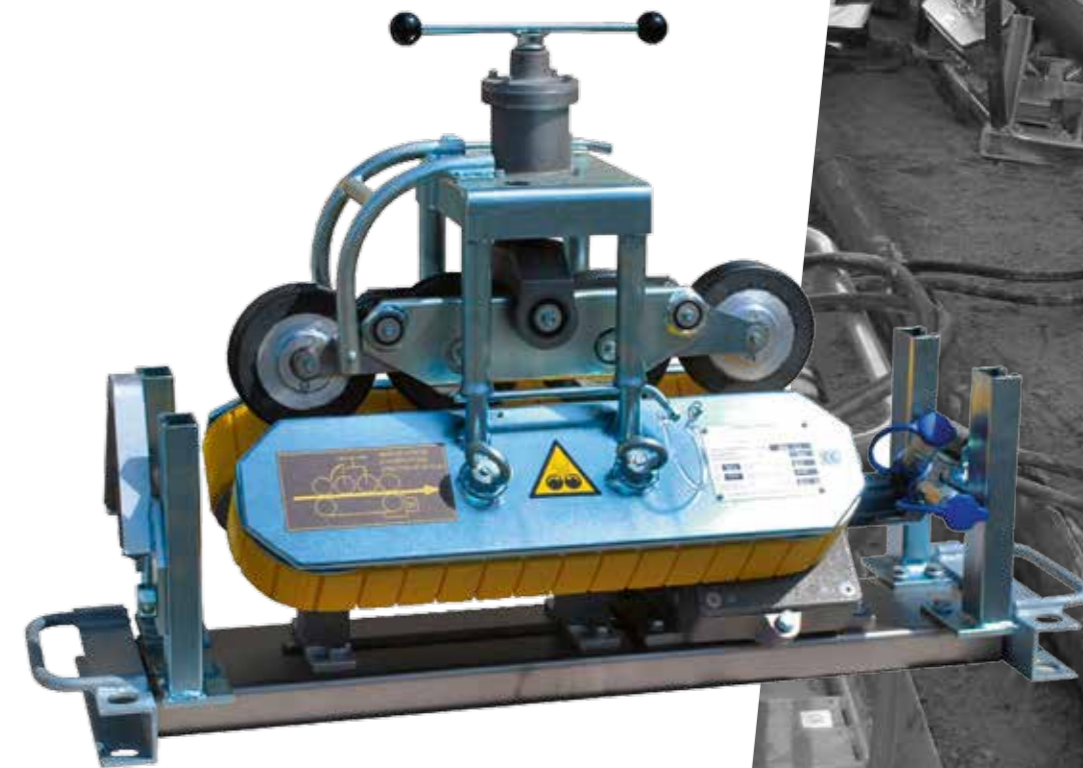
Weighing just 50kgs this compact and lightweight unit is portable, easy to handle and ideal for cable pulling or other hauling applications. The petrol engine provides fully variable speed control and the twin capstan design also allows for different pulling capacities

Line Pull	<b>500kgs/1,000kgs</b>
Max Rope Storage	<b>n/a</b>
Line Speed	<b>Up to 25m/min</b>
Power	<b>Petrol</b>
Design Type	<b>Open capstan (x2)</b>
Application	<b>Pulling</b>



# CABLE PUSHERS

Cable pushers provide the ideal solution to the challenges of increasingly long and heavy cable installations. Normally used in conjunction with a cable pulling winch, cable pushers greatly reduce the strain and tension required to pull a cable and therefore help prevent potential cable damage. Offered in hydraulic form with either electric or petrol power packs or as direct electric machines, these pushers can also handle a wide range of cable diameters. Compact and lightweight cable pushers work well in tunnels or other confined space situations and can be used individually or in series.

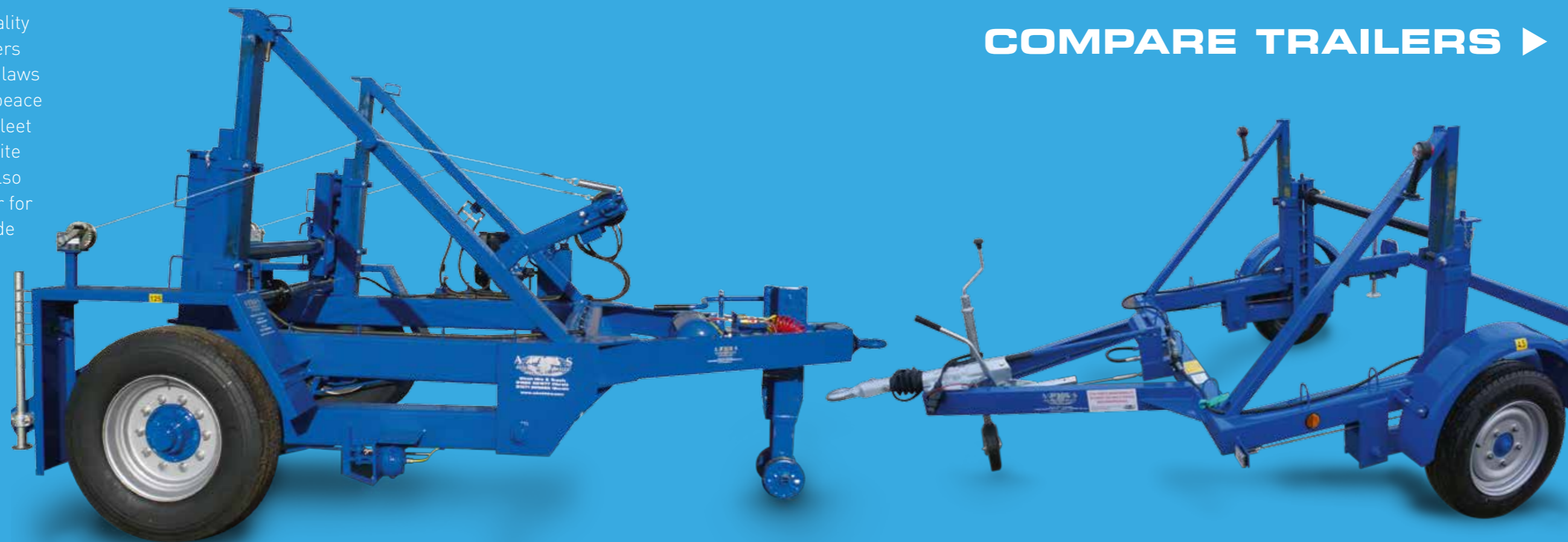


Plumett Cable pushers in use on The South West Link Sweden.



# CABLE DRUM TRAILERS

Atlas can supply a range of new and high quality used cable drum trailers. New highway trailers have full 'type approval' ensuring all current laws and standards are met giving you complete peace of mind. We also possess the largest rental fleet in the UK with a wide range of highway and site trailers available for hire. Our diverse fleet also contains many non-standard models to cater for larger cable drum sizes. Other options include drum drives and drum brake systems. Highway trailers are available with payloads from 830kg up to 8.5tonnes. Site only trailers can be offered to handle drums up to 50tonnes.



## COMPARE TRAILERS ►

Model	Max drum weight	Max drum width	Max drum dia.	Min drum dia.	Spindle dia.	Use
CD20	830kg	1075mm	1070mm	570mm	50mm	Highway/Site
CD32	1200kg	1375mm	2100mm	700mm	50mm	Highway/Site
CD40	1500kg	1250mm	2200mm	750mm	50mm	Highway/Site
CD60	2430kg/3000kg	1280mm	2500mm	1060mm	76mm	Highway/Site
CD70	2770kg	1280mm	2500mm	1060mm	76mm	Highway/Site
PT60	2380kg	1710mm	3200mm	1420mm	76mm	Highway/Site
PT70	2720kg	1600mm	3200mm	1420mm	76mm	Highway/Site
CD130	5350kg/7250kg	1470mm	2860mm	1360mm	76mm	Highway/Site
CD140	5085kg/7000kg	1600mm	3800mm	2000mm	89mm	Highway/Site
CD220	10000kg	1730mm	3660mm	2550mm	101mm	Highway/Site
CD130SS	8000kg	1600mm	3500mm	1560mm	76mm	Site Only
CD250S	10000kg	2000mm	3500mm	2200mm	89mm	Site Only
CD360S	15000kg	2400mm	4540mm	2400mm	76mm	Site Only
CD500S	20000kg	2400mm	4600mm	2500mm	127mm	Site Only
CD700S	30000kg	2400mm	4800mm	2700mm	152mm	Site Only
CD900S	40000kg	2800mm	5000mm	2900mm	152mm	Site Only
CD980S	50000kg	2800mm	5000mm	2900mm	152mm	Site Only

### BESPOKE REQUIREMENTS

Additional, non-standard trailers are also available for unusual and extra-wide drum sizes. Various trailers are also available with diesel drum drive/power lift systems. Drum brake mechanisms can also be fitted to most trailer sizes. Other trailer models, sizes and capacities available on request.

CUSTOM OPTIONS AVAILABLE – CONTACT US FOR MORE DETAILS.

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# CABLE DRUM JACKS

For simple and effective drum handling, cable drum jacks are an essential tool. Available in Screw design up to 8tonnes, Hydraulic Jacks up to 10tonnes and Hydraulic Jack Towers up to 40tonnes for the largest and heaviest of drums. Cable drum jacks are also complemented by a full range of spindles and collars available in various lengths and diameters.

For other cable drum lifting and handling needs we also offer dedicated drum lifting spindles supplied complete with spreader bar and chain assembly.



Jack Towers			
Model	Capacity/Pair	Min Drum Dia.	Max Drum Dia.
JT20	20,000kgs	1,480mm	3,400mm
JT20L	20,000kgs	2,360mm	3,400mm
JT30L	30,000kgs	3,000mm	4,500mm
JT40L	40,000kgs	3,000mm	4,500mm

\*L models are fitted with additional outrigger legs for extra stability. Modified versions available for larger drum diameters.



Hydraulic Jacks			
Model	Capacity/Pair	Min Drum Dia.	Max Drum Dia.
HJ3	3,000kgs	800mm	2,500mm
HJ6	6,000kgs	880mm	3,000mm
HJ10	10,000kgs	1,080mm	3,500mm



Screw Jacks			
Model	Capacity/Pair	Min Drum Dia.	Max Drum Dia.
SJ3	3,000kgs	1,060mm	1,600mm
SJ6	6,000kgs	1,360mm	1,900mm
SJ8	8,000kgs	1,660mm	2,200mm

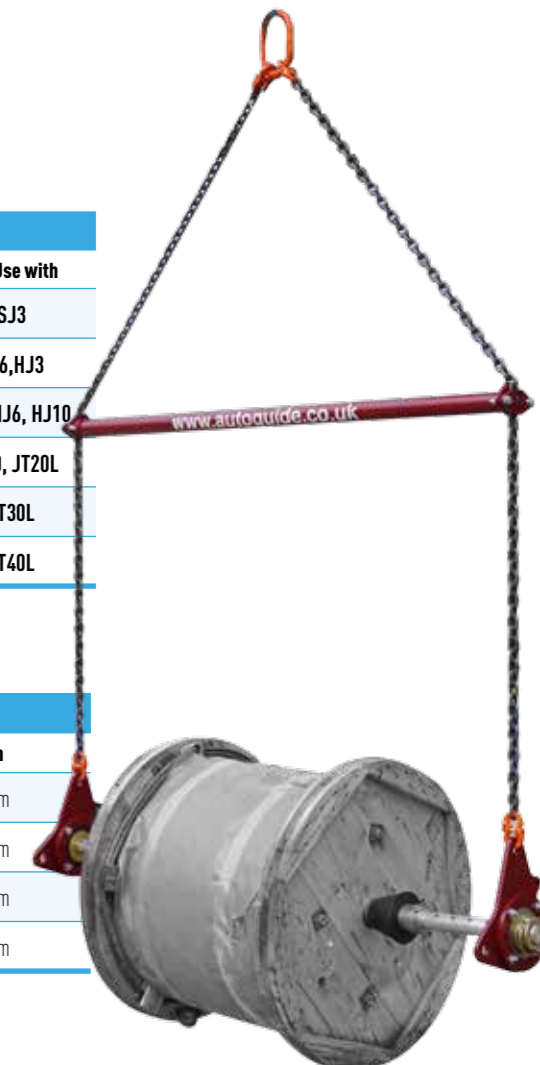
Screw Jacks are also available with Plinths to safely provide an additional 300mm of height for large drum diameters.

Spindle Bars and Collars				
Model	Capacity	Spindle Dia.	Length	For Use with
DS4	6,000kgs	50mm	1,219mm	SJ3
DS6	6,000kgs	50mm	1,800mm	SJ6, HJ3
DS12	12,000kgs	76mm	2,100mm	SJ8, HJ6, HJ10
DS20	20,000kgs	100mm	2,900mm	JT20, JT20L
DS30	30,000kgs	127mm	4,000mm	JT30L
DS40	40,000kgs	140mm	4,000mm	JT40L

Special lengths available on request.

Drum Lifting and Handling Spindles			
Model	Capacity	Spindle Dia.	Length
39543	5,000kgs	76mm	2,000mm
39544	5,000kgs	76mm	1,500mm
39545	2,500kgs	50mm	2,000mm
39546	2,500kgs	50mm	1,500mm

(Complete with spreader bar and chain assembly)



SEE OUR CABLING ACCESSORIES ON PAGE 35.

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# CABLING ACCESSORIES

Atlas hold an assortment of cabling accessories and ancillaries to assist with all of your cable and pipe pulling activities. The range includes all manner of cable roller, bellmouths, cable stockings, cobra/conduit rod, cable lubricant and duct proving and cleaning equipment to name a few.

Many commonly used items can also be hired as well as purchased with most equipment available for immediate delivery from our extensive stocks or on a next day service. Contact us now for full details.

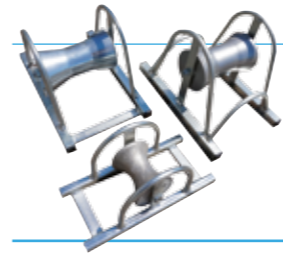
## Conduit Rod and Duct Rods

Conduit or 'Cobra' rod comes in 4, 6, 9, 11 and 14mm dia. and is supplied on a frame and reel for easy dispensing. Standard lengths range from 40 up to 500metres subject to diameter. Non-standard lengths available on request. We can also supply various guide tips, end fittings and repair kits. Traditional Duct Rods also available in 2 or 3metre lengths, 24mm outside diameter.



## Cable Rollers

Standard straight rollers for cable up to 76mm dia. Heavy duty and Bridge rollers for cable up to 125mm dia.



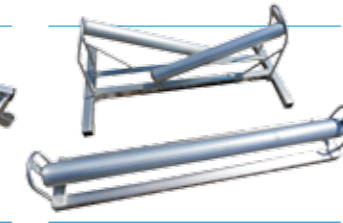
## Corner Rollers

Triple Corner Rollers and Angle Corner Rollers for handling cables on difficult corners.



## Draw Off/Lead Rollers

Extra wide Draw Off Rollers and 'V' Roller Assemblies for effective cable guidance.



## Swivel Links

Heavy duty Swivel Links in 3, 5, 10 and 20tonne capacities as standard. Other sizes available on request.



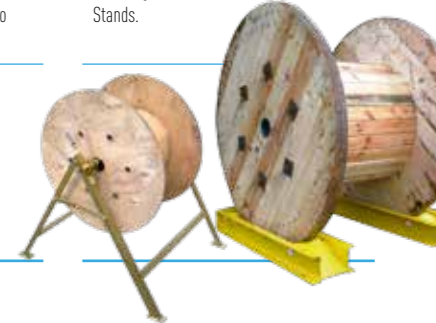
## Sub Duct Pulling Eyes

Sub Duct Pulling Eyes (Carrots); screw in design with clevis pin and eye. Sizes to suit 24-29mm and 29-37mm dia. sub duct. 3 and 4 way pulling slings/harnesses also available for use with pulling eyes.



## Other Drum Handling

For lighter applications we can offer some alternative drum handling solutions including Cable Drum Rotators and Drum Stands.



## Bellmouths

Bellmouths available in a range of sizes for ducts from 60mm to 250mm i.d. Available with or without guide rollers. Special sizes and 4 Roller models available on request.



## Manhole Rollers

Manhole and Rope Guiding Rollers to safely guide cable and rope in and out of manholes, pits or joint-boxes.



## Duct Proving Equipment

A selection of Mandrels, Duct Brushes and Foam Pigs for proving and cleaning ducts. A full range of sizes are available to suit all pipe and duct diameters.



## Cable Stockings

Cable Stockings available for cable diameters from 6mm up to 130mm. We can offer single eye, double eye and lace up as well as 3 leg stockings for handling Triplex cables. Larger sizes and Stainless Steel or Kevlar versions are also available.



## Cable Lubricant

Lubricants for both power and telecommunications cables, water based and environmentally friendly. Supplied in 20litre pails.



## Other Cabling Accessories

Additional items include:

- Skid plates and cable bends
- Suspension rollers
- Duct rods
- Measuring wheels
- Cable avoidance tools
- Hydraulic cutters and crimping tools
- Towing heads
- Pipe stoppers and rope blowing tees
- Breakaway fuse connectors
- Pit lifters and keys

EXTENSIVE STOCK AVAILABLE FOR SALE AND HIRE.

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# GENERAL LIFTING EQUIPMENT - LOOSE TACKLE



Atlas can supply all your lifting tackle and testing needs, through our group company Lifting Material Supplies. Lifting Material Supplies are experts in supply of wire rope, custom made wire rope slings, chain slings, shackles, hoists and trolleys. We can also carry out inspection and servicing plus onsite testing of trolley beams, hoists and rigging gear.

Our depot in central Scotland stocks an extensive range of lifting equipment. Our experienced staff are available to advise and recommend the best solutions and provide a quick, same day response to all your lifting equipment requirements.



CONTACT LIFTING MATERIAL SUPPLIES FOR ALL LOOSE TACKLE.

## LOOSE TACKLE SUPPLIES

We stock an extensive range of off-the-shelf loose tackle equipment, from respected names in the industry such as Crosby, Tractel,

Gunnebo and William Hackett. See below and overleaf for a small selection of our range.

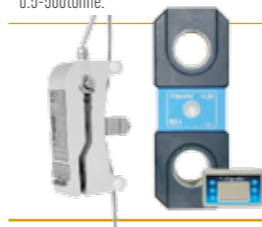
### Tractel lifting and pulling machines

Tirfor winches, both manual and powered options available. Suitable for a variety of lifting, pulling and tensioning applications. Available with maxiflex wire rope up to 300metres long.



### Load Links and Load Measurement

Suppliers of load indicating and load measuring devices, load links, load shackles, running line monitors, static line meters, anchor point bolt testers. 0.5-500tonne.



### Scaffold hoists

Scaffold and construction hoists available in various configurations, capacities and heights of lift. Typically 110volt, 200kg and 25metres of wire rope c/w scaffold mounting bracket.



### Hydraulic Jacks and Pumps

Single and double acting hydraulic cylinders, flat body pad jacks, hollow ram, threaded cylinders. Standard tonnage range 5-300tonnes, high tonnage range 100-1000tonnes. Full range of manual and powered pump sets available.



### Manual Chain Blocks and Lever Hoists

Stockist and suppliers of a full range of manual hand chain blocks and lever hoists from respected manufactures - Tractel, William Hackett, Kito and Yale. 0.5 - 60tonne capacities available.



### Height Safety Equipment

Body harnesses, lanyard, tripods, fall arrest blocks, rescue kits, inertia blocks, manriding baskets and man anchoring systems available.



### Electric Chain Hoists

We supply, assemble and install electric driven chain hoists and trolleys. Light crane systems for various engineering and production requirements. 100kg - 60tonnes capacities available.



### Wire Rope Hoists

Electric driven, runway beam wire rope hoists and EOT crane systems available from reputable manufacturers such as Stahl, Yale and Demag. 100kg to 600tonnes full supply and installation service available.



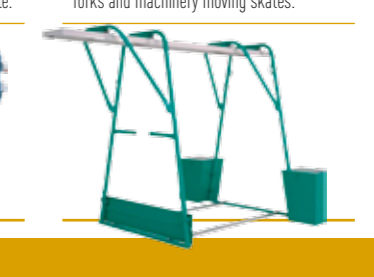
### Beam Clamps and Trolleys

Fixed suspension and adjustable beam clamps and full range of push, manual and powered travel runway beam trolleys available. Full supply, installation and testing services available.



### Miscellaneous

We can supply spreader beams, jib cranes, mobile gantry's, pump davits and sockets, pallet trucks, bottle jacks, sack barrows, hydraulic tables, lifting magnets, crane forks and machinery moving skates.



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#### Hooks

Various shank hooks, eye hooks, swivel safety hooks, forged hooks, hook latch kits and hook block assemblies. All our hooks are from respected manufacturers such as Crosby, William Hackett, De HAAN and Ropeblock.



#### Chain Assemblies

We offer complete bespoke chain assembly service for Grade 8, Grade 10 and stainless steel sling assemblies. Single leg, double leg, three and four leg combinations available.



#### Wire Rope Slings

We manufacture bespoke wire rope slings Single leg available with soft and hard eye, special end terminations, solid eye, hook and shackle attachments, turn buckle adjusters. Available from 1tonne to 120tonne.



#### Wire Rope Sling Assemblies

We manufacture and offer a complete wire rope assembly service for all grades and constructions of wire. Single leg, double leg, three and four leg combinations available with a full range of terminations and attachments – 1tonne to 120tonne.



#### Shackles

A full range of Crosby American Federal Specification shackles available, bow and dee shackles with screw or safety pin. Wide body - sling protector shackles available from 500kg up to 1500tonnes. BS 3032 small dee small bow, large dee large bow available from 500kg to 100tonnes.



#### Wire Rope

Stockists of complete range of steel wire ropes from 2mm to 76mm (larger sizes available on request). Standard constructions, non rotating constructions, compacted high performance wire and stainless steel. A full range of terminations and components available.



#### Synthetic Ropes

Stockist and suppliers of polypropylene, polyester, nylon, high performance Dyneema® rope from 4mm dia to 220mm dia. Full range of end terminations and splicing services provided.



#### Wire Rope Accessories

Wire rope grips, wire rope stockings, bulldog grips, thimbles, wire rope clamps, closed and open spelter sockets, wedge socket attachments (Crosby-Terminator), wirelock resin socket kits available. 4mm dia to 76mm dia, (larger sizes available on request).



#### Rigging Accessories

Rigging screws, turn buckles, master links, eye bolts, swivel hoist rings, weld-on lifting links, pad eyes, snatch blocks, diverter sheaves all from respected manufacturers and suppliers – Crosby, William Hackett, Van Beest and Gunnebo.



#### Web Slings

Full range of standard 1-12tonne available from stock and larger bespoke manufactured 12-80tonne flat belt polyester slings available. Reinforced eyes and protective wear sleeves available.



#### Round Slings

Full range of standard 1-12tonnes available from stock and larger bespoke manufactured 15-120tonnes polyester round slings available. Reinforced eyes and protective wear sleeves available.



#### Cargo Lashing and Ratchet Straps

Full range of chain and polyester lashing systems available. Chain tensioner, lorry load binders, ratchet belt tensioners. Lashing capacities of 1-10tonnes. Plus bespoke manufacture service available.

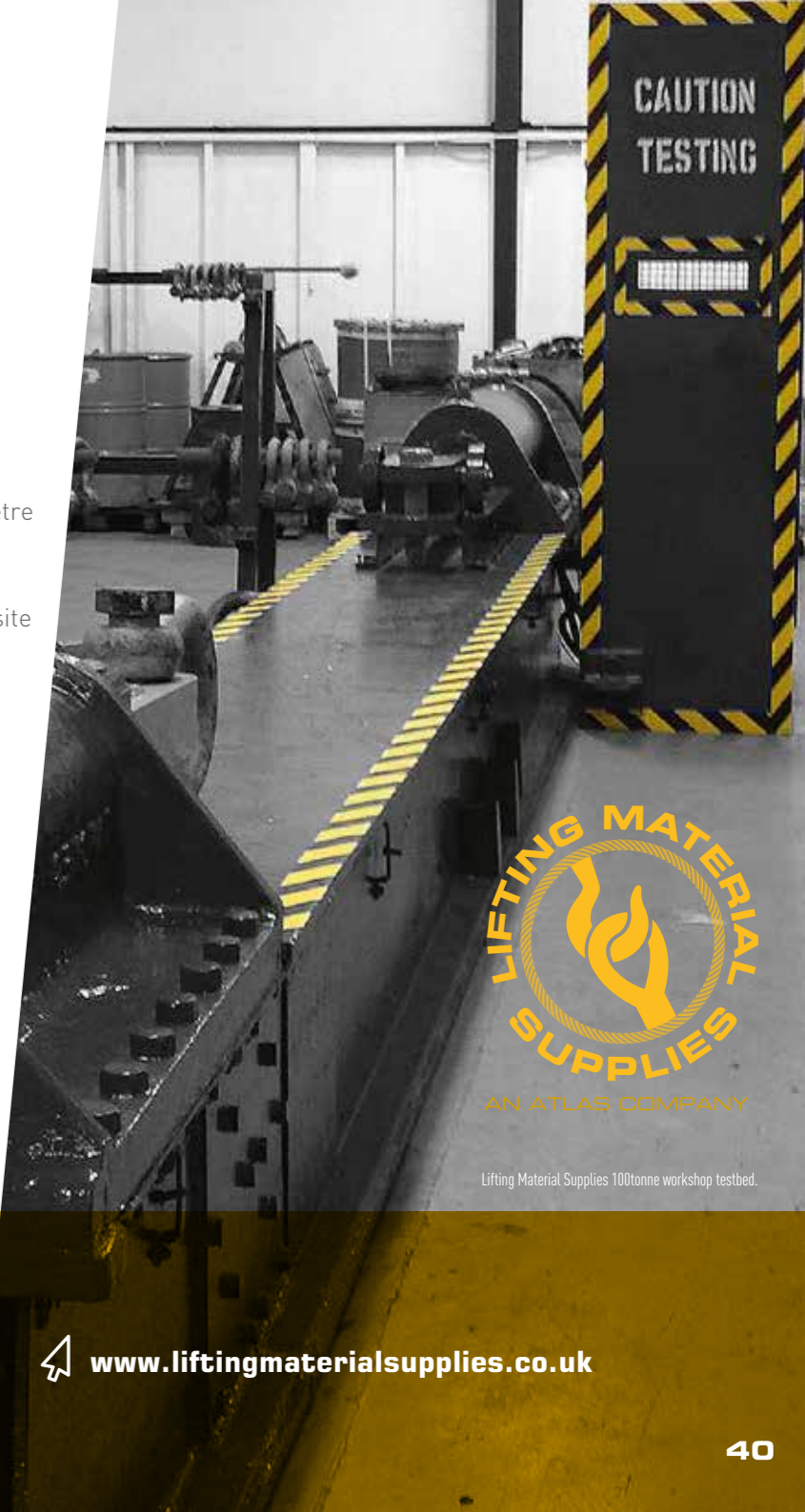


## INSPECTION AND TESTING SERVICES

Lifting Material Supplies carry out inspection and specialist onsite testing of all lifting equipment – specialist offshore frames and assemblies, lifting beams up to 500tonnes. Full LOLER inspection and examination services are available. All our lifting and test engineers are LEEA qualified and ISO9001 accredited. Between us we have over 100 years of experience in the lifting industry. Our knowledge and experience mean you can entrust us to take care of all your maintenance and inspection needs. We pride ourselves on our professionalism in all aspects of our work.

#### TEST FACILITIES AND CAPABILITIES

Our in-house 100tonne static test bed is available for NDT and destruction testing. Mobile 160tonne hydraulic test frame available and 400tonne x 9metre reaction beam for on site testing applications. 500tonnes of steel test weights, concrete ballast blocks and water weights available for on and off site testing. Calibrated load cells and load shackles available up to 500tonnes.



Lifting Material Supplies 100tonne workshop testbed.

CONTACT LIFTING MATERIAL SUPPLIES FOR ALL LOOSE TACKLE.

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# ATLAS SERVICES

Atlas are not only capable of supplying all your lifting and pulling equipment but also have the knowledge and expertise to offer an extensive range of complimentary support services for your project. From winch engineers, operators and technicians. Atlas can provide all you need – wire rope spooling and lubrication services, cable installation operations, training on the safe use and operation of winches is all available from our experienced team.

Full LOLER inspection and testing services, 100tonne static test bed, 160tonne portable test bench, 400tonne x 9metre reaction beam, 300tonne hydraulic test rams and 500tonnes of site test weights. Qualified winch operators and riggers, electrical and hydraulic technicians are available worldwide.

## WINCH OPERATOR TRAINING

In house and onsite accredited training provided for standard cable pulling winch operation. Non standard winch operator training available tailor-made to suit clients specific needs.

## WINCH OPERATORS/ RIGGERS

Fully qualified and trained onshore and offshore winch operators/riggers available to operate Atlas or clients owned equipment. Worldwide service available.

## INSPECTION AND TESTING

LEEA Qualified engineers and technicians available to carry out full LOLER inspection and examinations. In-house 100tonne test bed, 160tonne portable test frame, on-site load testing up to 400tonnes. Local and nationwide service available.

## ROPE SPOOLING OPERATIONS

Specialist rope and cable spooling equipment is available with qualified operators. Umbilical cable change overs, installation of crane ropes, re-drumming of redundant cable and wire. Portable units 6t/12t/25t, along with larger specialist spoolers up to 300tonnes payload and 30tonnes back tension.

## TRAILER SALES AND SERVICING

In addition to cable drum trailers Atlas now also offers various plant trailers available for sale and hire, the range includes flat bed, tilt deck and tipper trailers. Service, repairs, spares and accessories are available for all makes and models by experienced engineers in fully equipped workshops.

## DESIGN AND CONSULTATION

Site visits and customer consultation by qualified and experienced engineers to assess project requirements. Design solutions formulated based on time, material availability and budget to produce a quality end product and complete project package. Full certification and documentation provided.

**“ Atlas have worked tirelessly and unselfishly, they have assisted me and my operations above and beyond our expectations and I would like to thank you all for your most excellent service. ”**

**A.Miklaszaewcz, Offshore professional, James Fisher and Sons, Marine Services.**



The Three Bridges, Firth of Forth Scotland.

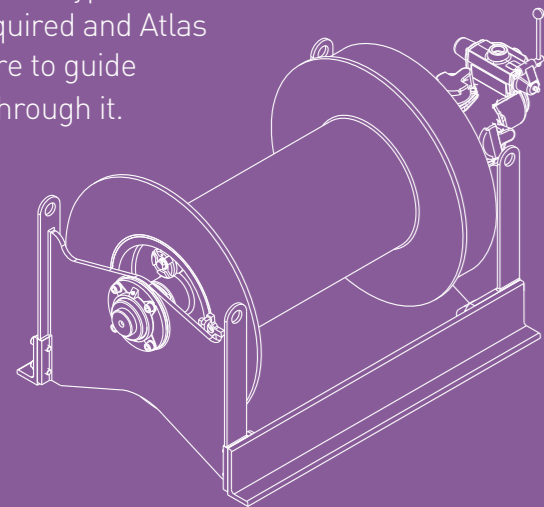
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# WINCH SELECTION GUIDE

Selecting a winch requires more thought than you might think. With over 70 years of experience of winches and the various applications and uses, Atlas has the expertise to help you select the safest and most appropriate equipment for your application.

From a chandelier winch in a grand hotel to a 6-8 point winch mooring system for a quayside, the same type of information is required and Atlas is here to guide you through it.



## COMMON REQUIREMENTS WHEN SPECIFYING A WINCH



Is the winch for lifting or pulling?



What capacity do you require?



What rope length is required to be stored on the drum?



What winching speed is required?



Is it a fixed speed or does it need to be variable?



What would be your preferred power – electric, diesel, air or manually operated?



What type of control do you require? Local, remote, wireless?



Are there any environmental issues to be considered? Very Hot, Very Cold, or an environmentally sensitive area e.g. a river bank?

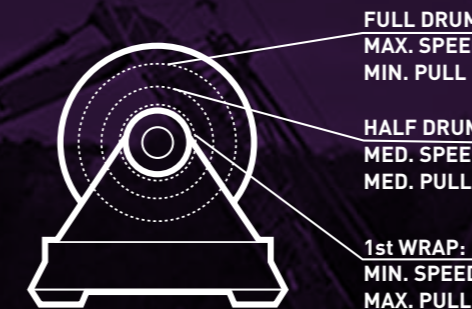


Do you require any special features?

- Winch spooling gear
- Spindle limit switch
- Overload protection
- Drum guards
- Free spool clutch
- Load measurement

### LINE PULL AND LINE SPEED

Line pull and line speed vary according to how much wire is on the winch drum. The first wrap or first layer of rope on the drum delivers the slowest speed and the maximum line pull or lifting capacity. A full drum delivers the maximum line speed and the minimum pull or lifting capacity. It is important to understand these principles for any application, by rating the winch on a full drum, you can then be sure that in all conditions the winch will handle the specified load.



HALF DRUM Rating establishes average performance only. Do Not confuse this rating with cable capacity, which is approximately 36% of FULL DRUM storage at this point.

### LIFTING AND PULLING

For lifting a load the winch can be directly sized according to the weight of the load plus the wire rope. For hauling, working out the size of the winch is more difficult due to many variables; what are the track or ground conditions on which the load is being hauled? Is there any gradient or incline involved? If so what angle? The type and size of wheels, frictional resistances all need to be considered. We can calculate the winch size accurately using various formulas and based on our own experience.

### USING ROPE BLOCKS

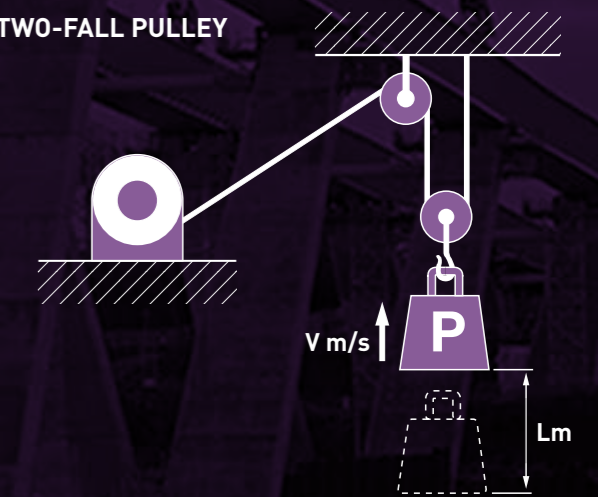
Multi reeving can be a sensible way of reducing the size of the winch required. By using one or more rope blocks, it is possible to lift or haul many times more than the rated capacity of a winch. A simple two fall pulley system as illustrated basically doubles the weight of load that can be lifted, with the load moving at half the winch speed. Reeving systems with up to 12 falls are not uncommon.

### WINCH PERFORMANCES

Two Fall Pulley	Three Fall Pulley
Max load $P \times 2$	Max Load $P \times 3$
Rope Speed $V \div 2$	Rope Speed $V \div 3$
Rope Length $2 \times L$	Rope Length $3 \times L$

$V$  = Winch Speed,  $P$  = Load,  $L$  = Rope Length

### TWO-FALL PULLEY



OUR EXPERTS ARE ON HAND TO HELP YOU SELECT THE RIGHT EQUIPMENT.



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