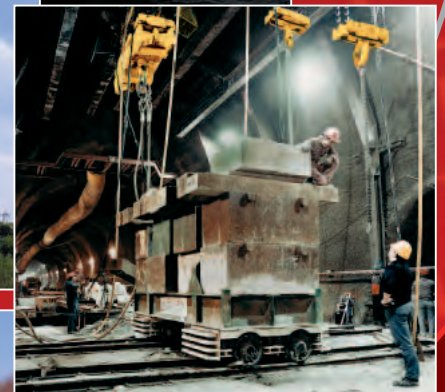


Winch & Hoist

Markets and Applications Overview



- Safety
- Reliability
- Efficiency
- Expertise
- Service



Winch & Hoist

**SAFETY
RELIABILITY
EFFICIENCY
EXPERTISE
SERVICE**

Ingersoll Rand is the worldwide leading manufacturer of Air and Hydraulic Winches and Hoists. The Ingersoll Rand line incorporates the best ideas and innovations to solve the most challenging lifting, pulling and positioning applications in the world's toughest industries.

Ingersoll Rand winches and hoists have high recognition in key heavy industries such as offshore, oil exploration, chemicals, refining, shipbuilding, mining, tunnelling and steel mills...

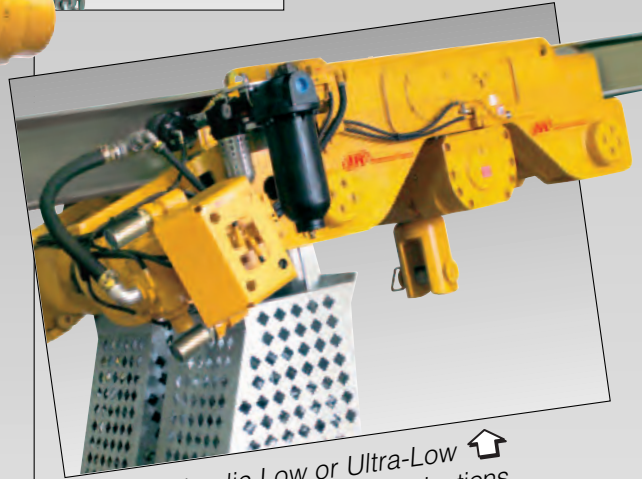
Air or Hydraulic Chain Hoist Range up to 12 ton capacity ↗



Industrial Air Hoist Range: 0.25 to 2 ton capacity ↘



Heavy Air or Hydraulic Chain Hoist Range up to 100 ton capacity ↗



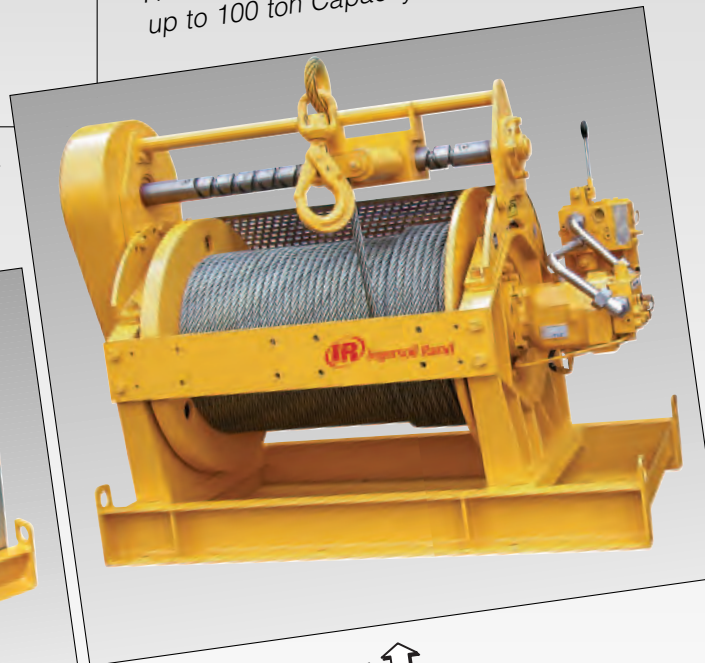
Air & Hydraulic Low or Ultra-Low Headroom Hoist Trolley Combinations up to 100 ton Capacity ↗



Portable Air Winches from 0.15 to 2.4 ton capacity ↗



Air or Hydraulic Manriding Winches for the Oil & Gas Industry ↗




Specials and Customer Applications on request: e.g. Utility Hydraulic Winch for Offshore Platform ↗



WHY CHOOSE INGERSOLL RAND MATERIAL HANDLING EQUIPMENT ?

- Ingersoll Rand products are designed for applications in hot, cold, dusty, dirty, explosive and wet conditions.
- Increased safety for the operator.
- Unlimited duty cycle.
- Ingersoll Rand winches & hoists are rugged, reliable, compact, and offer excellent power-to-weight ratio.
- Easy to operate and maintain.
- Speed control is variable and offers good spotting capability.
- Reduced downtimes. Robust construction provides long-lasting use.



Air and hydraulic hoists and winches are particularly well suited for use in potentially explosive atmospheres. Their construction makes them explosion -proof by nature. They can also be delivered in conformity with the ATEX 94/9/CE directive.

AIR or HYDRAULIC ?

PNEUMATIC:

- ⇒ Rugged and simple design.
- ⇒ Easy installation and operation.
- ⇒ Cannot burn out.
- ⇒ Easy to move.

HYDRAULIC:


- ⇒ Low noise level.
- ⇒ Precision of control.
- ⇒ Lower energy cost.
- ⇒ Ideal for fixed installation.



↑ Air or Hydraulic B.O.P. Systems up to 400 ton capacity.



↙ Winches up to 20 ton capacity. Air, Hydraulic or Electric versions



Ingersoll Rand Hoists and Winches can be CE marked when fitted as standard with all the safety devices for compliance with the European Machinery Directive 98/37/EEC (delivered with a declaration of conformity). The hydraulic models are fitted as standard with specific safety options for incorporation into assemblies which have to meet the CE Directives (delivered with a declaration of incorporation).

Whatever your lifting challenge, we have a solution

WINCHES & HOISTS FOR OFFSHORE DRILLING APPLICATIONS

The most comprehensive range of manual, electric, air and hydraulic chain and winches on the market - 0.25 to 100 T CAPACITY !
Setting the standards in winch and hoist technology, our lifting equipment is known throughout the offshore drilling industry for their reliability and safety.



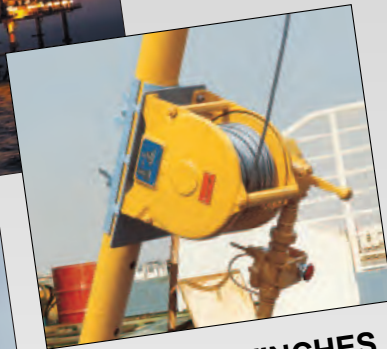
HOIST AND TROLLEY COMBINATIONS FOR BOP HANDLING

The easy and economical solution to handle Blow Out Preventers on drilling rigs.



HYDRAULIC WINCHES

Liftstar hydraulic are offshore tough to withstand the harsh environments in marine applications.



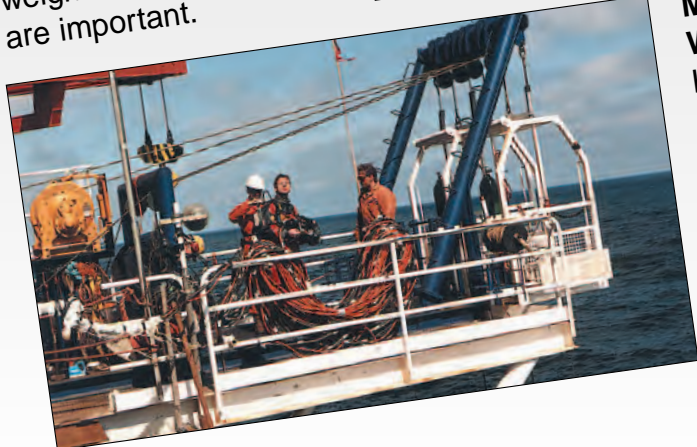
PORTABLE WINCHES

Economically priced, the portable range of winches is particularly suitable where light weight and compact size are important.



MANRIDING WINCHES

Hydraulic or pneumatic manriding winches are dedicated to personnel on offshore installations in compliance with the toughest safety regulations.



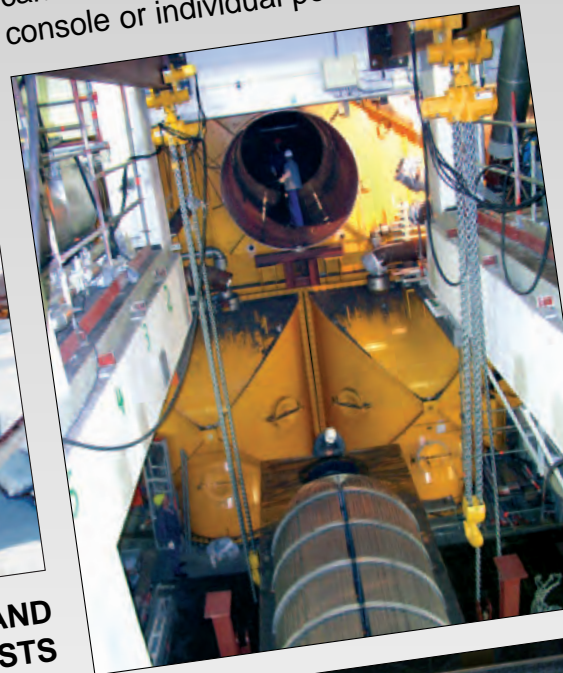
NS

hoists

are
safety.



UP TO 400 T LIFTING CAPACITY
4 x 100 ton hoist/trolley combinations
can be easily controlled from a single
console or individual pendants.



LIFTCHAIN AIR AND HYDRAULIC HOISTS

Liftchain hoists are the first choice for all lifting applications in the oil industry. They offer new standard features with increased safety, rugged reliability, enhanced control and reduced maintenance.

FORCE 5 WINCHES

Serving the oil industry for more than 50 years, Ingersoll Rand Force 5 winches are world proven in tough and difficult environments.

ULTRA LOW HEADROOM
Ultra low headroom trolley hoists specially designed for areas with height restriction.

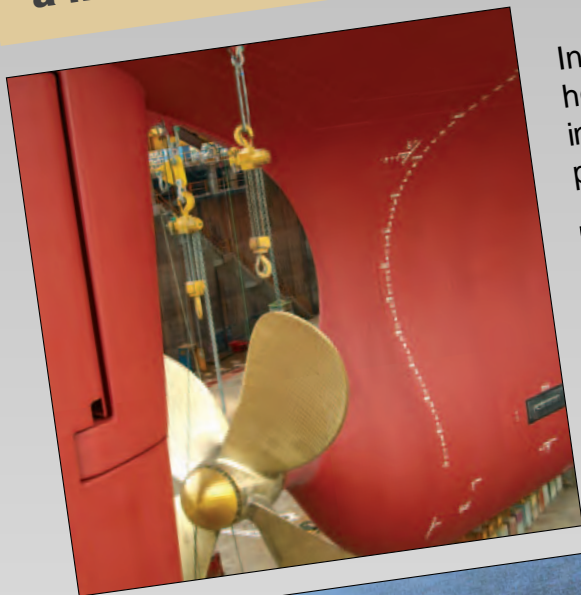


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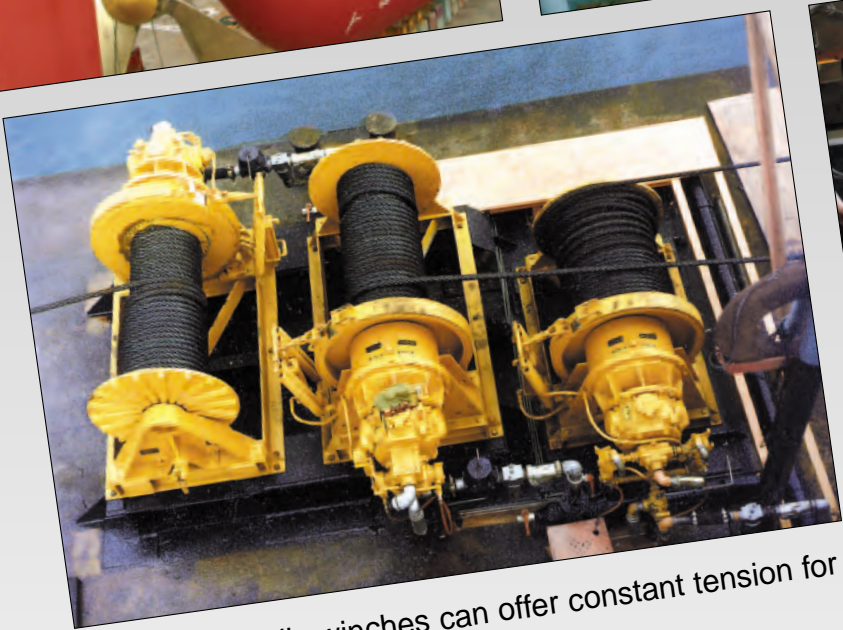
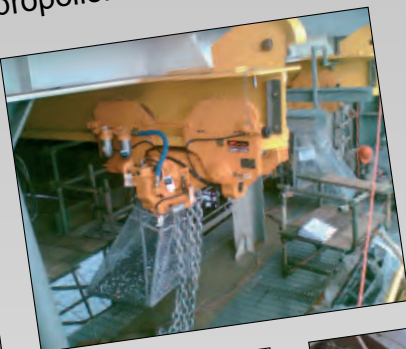
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SHIPYARD, CEMENT PLANT & HEAVY INDUSTRY APPLICATIONS

Ingersoll Rand hoists and winches have been proven for decades by field experience in difficult environments such as construction, marine, shipyard and mining. Their exceptional reliability keeps downtime to a minimum.



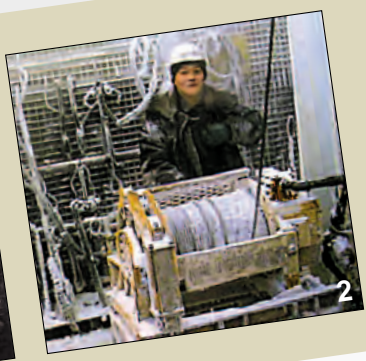
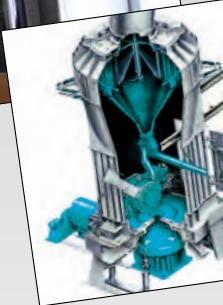
Ingersoll Rand air chain hoists are commonly used in shipyards for handling of propellers and rudders.



Air and hydraulic winches can offer constant tension for mooring and sea going applications.



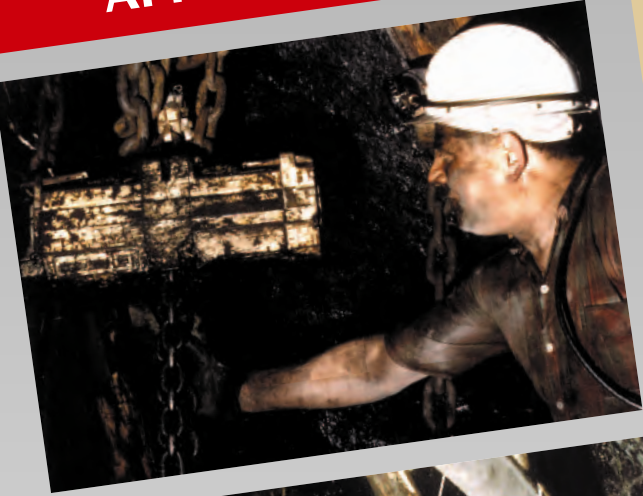
COMPACT DESIGN
Air or hydraulic chain hoists brings strength and durability to maintenance operations in cement plants: replacement of milling wheels.



INGERSOLL RAND HOISTS & WINCHES IN THE MOST HARDOUS ENVIRONMENTS

- In underground mining with dust, heat, humidity... (pict. 1)
- On offshore rig in Syberia, with extreme low temperatures (pict. 2)

MINING, TUNNELLING & CONSTRUCTION APPLICATIONS



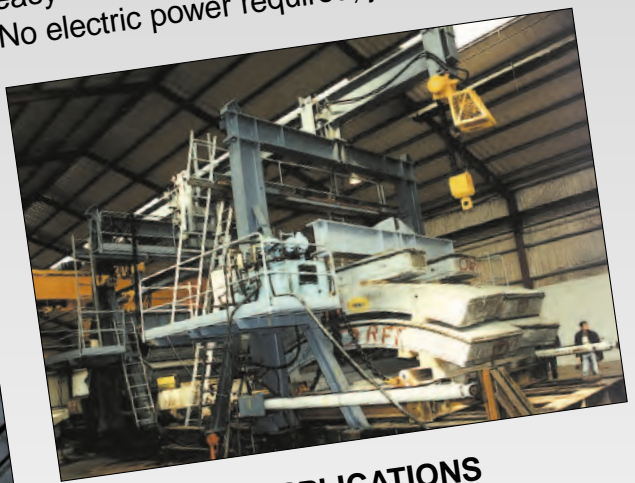
Ingersoll Rand excels in providing complete system solutions, from upfront engineering through system installation and testing. Ingersoll Rand provides a wealth of engineering experience to bring together your lifting, pulling, tensioning and material handling applications.

MINER VERSIONS
Liftchain Miner hoists are proven performers offering exceptional quality and value for underground mining works.

PORTABLE AIR WINCHES
The Liftstar & Pullstar portable range is ideally suited for the demanding conditions found in underground. Light weight and compact for portability.



Our hoists and winches are very easy to install, maintain and operate. No electric power required, just a simple air hose!



TUNNELING APPLICATIONS
The space-saving design of our heavy hydraulic and pneumatic hoists, as well as their ability to withstand dirt, dust and moisture make them an ideal partner for the most difficult tunnelling applications.

Your Safety is our Number 1 Priority!





Services by Ingersoll Rand

- Inspection, testing and certification
- Repair, modification and complete refurbishment
- Engineered solutions
- Global product training



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