Product Brochure

Roller Bogie® Conveyance Tool
Low Loader Roller Bogie® Jar
High Deviation Roller Bogie® Jar
Advanced Kickover Tool
Oriented Perforating Tool
WE Deliver
Original, innovative products that enhance oilfield wireline operations

Working in the upstream oil & gas sector, WE specialize in creating products that allow wireline tools to be deployed and operated efficiently in deviated and difficult wells.

We strive to be recognized as a responsive and trusted partner for our customers, aligned to their business and operational objectives, and with a reputation for providing world-class products that really do add value.

WE Are Wireline Engineering

- Wireline Engineering offices
- Countries where we do business
As wells are drilled deeper, more highly deviated, or their profiles become more challenging, it is increasingly difficult to perform efficient wireline operations. In some wells, frictional resistance caused by wire and wireline tools lying on the low side of the well can prevent the installation of vital equipment or severely inhibit its operation.

Complex and expensive solutions are often recommended to overcome this inhibiting friction. Wireline Engineering has taken a more innovative approach, deciding instead simply to eliminate the friction.

We have developed a range of unique conveyance solutions for deviated wells, to eliminate contact friction and enable gravity-deployed wireline operations to be conducted routinely at higher deviations and in deeper wells than was previously possible.

This includes the market-leading Roller Bogie® products that have transformed the effectiveness of wireline services in deviated wells and brought real operational benefits to well operators throughout the world.
WE Innovate
Enabling technologies that deliver tangible benefits

Roller Bogie® Tools

Used and trusted by more than 200 customers in nearly 60 countries for slickline, electric line and perforating applications, Roller Bogie® is the name on the world’s most trusted, most effective wireline conveyance tool.

A unique patented cost-reducing roller technology, the Roller Bogie® product enables wireline access in deviated wells previously considered difficult or impossible and has become the industry standard in wireline conveyance as a direct result of its incredibly successful track record.

Even after thousands of jobs and hundreds of millions of feet, Roller Bogie® tools continue to demonstrate near-perfect reliability. Roller Bogie® tools are simple, robust and reliable, reducing operational complexity and ultimately dramatically reducing cost compared to other conveyance methods such as coiled tubing, drill pipe or wireline tractors.

Roller Bogie® is protected by granted and pending patents worldwide.
Widely used in over 50 countries in six continents

Proven track record at inclinations up to 87°

Successful operations down to 31,000 feet (9,450m) and up to 500°F (260°C)

Roller Bogie® Slickline Cased Hole

Roller Bogie® Electric Line Cased Hole

Roller Bogie® Electric Line Open Hole

Roller Bogie® is protected by granted and pending patents worldwide.
Function

Self-orienting Roller Bogie® tools lift and support the wireline toolstring off the low side of the well. Large rollers eliminate contact friction making it easier to convey the toolstring to working depth. Once at depth, results are more assured.

With reduced frictional drag, weight transfer is improved and wireline operators can be much more confident of what is happening downhole: running weight remains positive and steady, pick-up weight is lower. The risk of wire breakage is reduced and the toolstring can be manipulated more accurately, more effectively, whether running sensitive logs, working in a gas lift mandrel or precision jarring.

Features

- Patented self-orienting design means the toolstring always rolls, never slides
- Integral swivels for independent component rotation – less wire stress
- Dual rollers distribute loads and bridge over tubing upsets
- Integrated virtually anywhere in the toolstring for optimum positioning
- Streamlined profile – large by-pass area minimizes fluid resistance
- Robust, durable design – leave nothing downhole
- Simple maintenance maximizes longevity and tools are easily redressed

Benefits

- Lower pick-up weights means reduced risk of wire breakage
- Running weight remains positive due to reduced slip-stick
- Better data results from more constant logging speeds
- More effective and visible jarring due to better weight transfer
- Coated and high-chrome tubing are better protected
- Toolstring components are protected from frictional wear
- Avoid the need for costly and complex coiled tubing, drillpipe or wireline tractors at high deviations
The Low-Loader Roller Bogie® Jar is deployed at the bottom of a slickline toolstring to provide the additional lift required for larger bottom-end tools.

The Low-Loader Roller Bogie® Jar is used in conjunction with Slickline Roller Bogie® tools placed throughout the toolstring above.

- It ensures larger diameter tools such as kickover tools, plugs or drifts do not cause avoidable frictional drag.
- It incorporates a fully aligned tubular jar to deliver efficient jarring action to actuate bottom-end tools.
- Effective high deviation mechanical jarring.
- Axis-shift knuckle unit transfers jarring forces efficiently.

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A radical step forward in mechanical jarring technology and performance, there's nothing else like it.

Unique to Wireline Engineering, the High Deviation jar has virtually no internal resistance and, in a Roller Bogie® equipped toolstring, provides an ultra-low friction system that allows maximum acceleration of toolstring mass at elevated deviations. The High Deviation jar takes conventional slickline operations well beyond previous boundaries.

- Effective extreme deviation mechanical jarring action
- Sized to match toolstring Roller Bogies®
- Bi-directional jarring
Advanced Kickover Tool

Efficient gas lift intervention is a common challenge for well service professionals. Awkward mandrel orientation or significant well deviation can make it difficult to rotate and align kickover tools and lead to frequent misruns.

The Advanced Kickover Tool specifically addresses these difficulties and greatly increases the number of first time successes.

With the valve pocket at highside, lowside or anywhere in between, a Roller Bogie® toolstring and Advanced Kickover Tool gets the job done.

Easier. Faster. Safer. It’s time to rethink gas lift intervention.

- High efficiency roller subs lift the tool and remove contact friction, making it easier to reach working depth and operate effectively at virtually any deviation
- Low torque swivels allow the tool to rotate easily within the mandrel. Whatever the deviation or pocket orientation, it is now significantly easier to locate the trigger every time
- Length and weight have been greatly reduced and radial balance improved. Engaging the gas lift valve is no longer a time-consuming struggle with gravity
The Oriented Perforating Tool enables the direction in which perforating charges are fired to be pre-selected and uses weight biasing to control gun orientation downhole.

The Oriented Perforating Tool is positioned immediately below wireline perforating guns, with Roller Bogie® conveyance tools installed throughout the gun assembly to eliminate contact friction with the casing and allow the guns to rotate freely.

Adaptable for use with most types and sizes of perforating gun, the Oriented Perforating Tool is made up of modular weight-biased sections that combine to deliver high levels of torque to the gun assembly, rotating the guns to the desired direction of fire. Gun alignment is easily achieved using an indexing system to select the required toolface prior to running in hole.

Unlike certain other systems, the Oriented Perforating Tool places no restriction on the size or type of shaped charge that can be used.
WE Support
Specialist services that further enhance customers’ oilfield operations

There are times when our customers need a little bit of extra support. Whether this is onsite advice, specialist testing or customised project solutions, Wireline Engineering offers a range of services when and where required.

Wellsite Advisors
To ensure the best possible results, particularly where wireline service providers may be unfamiliar with Wireline Engineering’s specialist equipment, experienced wellsites advisors can be provided to offer guidance on the most effective deployment, operation and maintenance of these tools.

Test Mast Facility
We know that our success, and ultimately that of our customers, is dependent on the performance of our products which is why we designed and built a unique wireline mast for testing and development. At a height of 13 metres and with 100,000 lbs impact capability, our test mast can simulate any wellbore orientation from vertical to horizontal.

We also offer the opportunity for third parties to rent our test mast facility.

Special Projects
There will be times when problems arise that are just that little bit different and the equipment needed isn’t available in someone’s catalogue.

Our customers know what they want to achieve but sometimes they just don’t have the means at hand to do so. In these instances we can provide the experience and knowledge required to deliver the right solutions, first time.

We work closely with customers to ensure they feel confident our team understands the problem, and has the experience and knowledge to deliver the right solution, first time.

A combination of key critical assets all under one roof provides Wireline Engineering with maximum control over quality and delivery standards:
- Extensive technical knowledge and operational experience
- Creative design with state of the art manufacturing
- Testing facilities and rigorous quality assurance
Corporate Headquarters –
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