

Products and Services

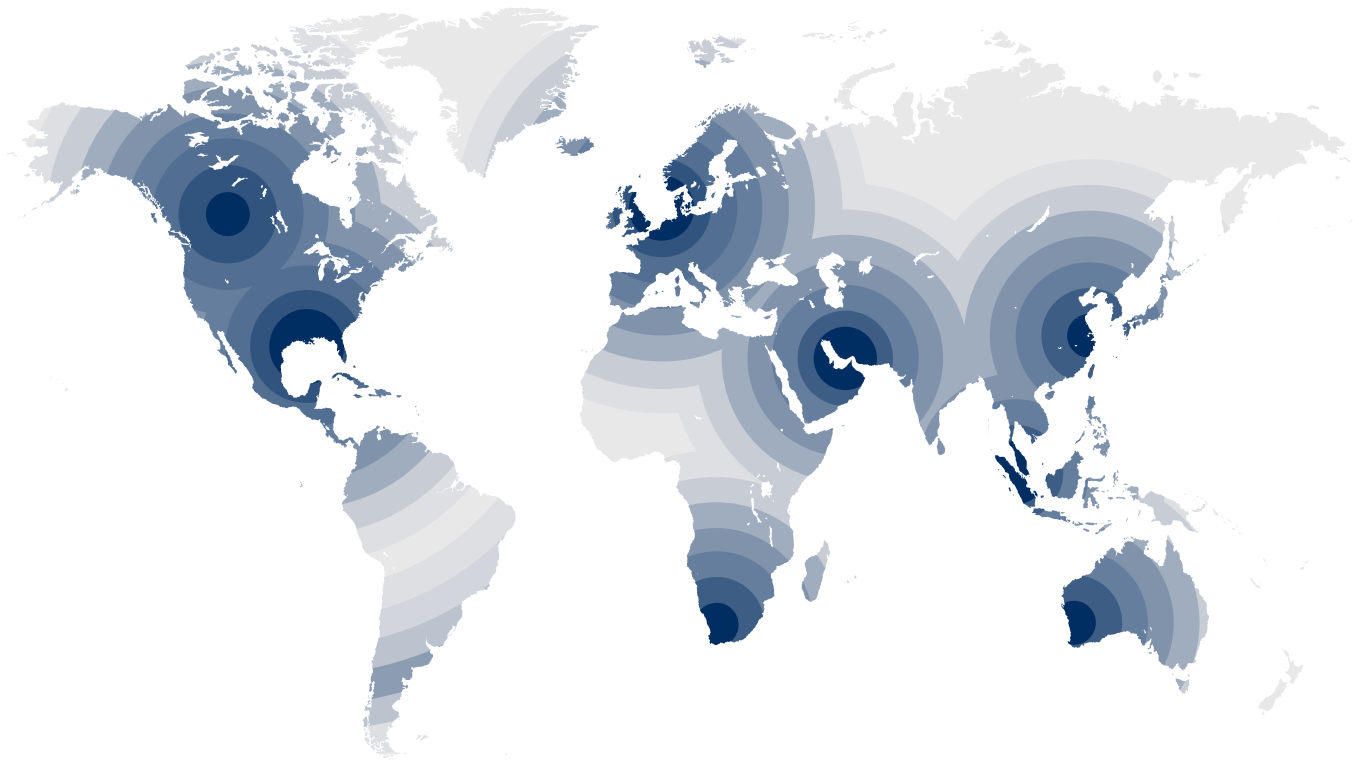
Hunting provides products and services to the world's leading national, international energy companies and oil service companies enabling the extraction of oil and gas. Manufacturing and sales locations are located in the key energy producing regions of the world.

Proprietary Technology

Hunting owns and develops proprietary patented products with a full range of applications below the wellhead including mud motors, premium connections, well perforating, logging and intervention tools.

Geographic Footprint

In strategic locations around the world Hunting owns and operates plants, properties and equipment employing people to serve its global customers with local services and products.



Global Business Units

Perforating & Logging Systems	Advanced Manufacturing	Electronics
Connection Technology & OCTG	Well Intervention Equipment	Trenchless & MWD
Subsea Technologies	Well Testing	Organic Oil Recovery

Health, Safety, Environment and Quality Assurance

Hunting is committed to working safely in an environmentally responsible manner. These principles are fully integrated within our Quality Management System that defines the company's global operations.

Quality Assurance

It is essential that products and services provided by Hunting are designed and manufactured to conform to the agreed API, proprietary licensor, or other specification of the customer, meeting their needs and expectations the first time, every time.

It is the policy of Hunting that only the highest quality products and services, that meet all specification requirements, are provided to customers. Hunting operates a corporate Quality Management System covering all worldwide locations.

Health, Safety and the Environment

Hunting is committed to achieving and maintaining the highest standards of safety for its employees, customers, suppliers and the public. All Hunting business units consciously operate in a manner that includes environmental matters as an integral part of its business plan.

Hunting's aims are no accidents, no harm to people, and no damage to the environment.

The Hunting goal is "Total Customer Satisfaction".

Further Information

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'Precision Engineering in a Changing World'

HWM-DHT_003_VariBall_0.9

Variball™ Roller System



Slickline Roller System

E-Line Roller System

Cutter System

Slickline Go-Devil

VariJar High Angle Linear

Ballistic

Capillary

The VariBall™ Roller System

VariBall™ Go Faster. Go Further

huntingplc.com/products-services/well-intervention-equipment

The VariBall™ Roller System was developed to enhance the extended reach of Slick Line and E-Line operations in highly deviated wells.



◀ VariBall™ Roller System for Slickline and E-Line

The VariBall Roller System for slickline and e-line provides an efficient and effective down hole roller for systems used in high angled wells.

The elliptical roller ensures that the only point of contact between the toolstring and the tubing wall is the roller reducing frictional drag. The elliptical shape causes the roller to self-align in its most efficient rotational plane parallel with the low side of the tubing.

To aid orientation and allow for wireline rotation, the VariBall has an integral swivel as part of the main assembly. The rollers are interchangeable allowing the client to require one chassis and various sized rollers to allow operational flexibility.

Operators can now reliably service high deviated wells without the requirement to perform more costly operations.

Benefits of the VariBall™ Roller System

- Different sizes of chassis that, when combined with varying roller configurations, cover the range from 2-3/8" through to 7" tubing.
- Elliptical self-aligning rollers
- Orientated body to ensure roller to tubing contact
- 360° built-in swivel
- Proven field reliability throughout the Hunting VariBall product range
- Flexibility and adaptability over current roller systems on the market
- Minimal parts, low maintenance
- Open tolerance design of chassis to roller, which allows ingress/egress of wellbore debris
- Cost savings - inventory and spare parts
- VariBall rollers are 4140/45 carbon steel as standard and have been put through a hardening process.



VariBall™ Cutter System ▲

The Slickline VariBall Cutter System has been designed to provide an efficient and effective downhole wire cutter for use in highly deviated wells.

Applying the VariBall concept to a standard cutter reduces friction and increases target accuracy during wire cutting and retrieval operations.

Each VariBall Cutter System comes complete with wire cutter interfaces to suit 0.092" - 0.313" wire and is also supplied with both standard (one drop) and interface type (two drop) type assemblies.

Slickline VariBall™ Go-Devil ▼

The Slickline VariBall Go-Devil has been designed to provide an efficient and effective drop bar for use in highly deviated wells.

Compared to a standard Go-Devil, the VariBall Go-Devil minimises friction, increasing the potential to reach the target depth and allow successful wire cutting operations.



Ballistic VariBall™ ▲

The Ballistic VariBall System has been designed to enhance the deployment of perforating gun assemblies in highly deviated wells by reducing friction between the gun body and the tubing. Elliptical rollers minimise contact between the tubing and gun bodies eliminating friction and allowing well bore access in high deviation wells. The Ballistic VariBall can be run on a variety of gun sizes and types.

Ballistic VariBall features interchangeable subs allowing multiple configurations options including and not limited to Threaded Gun Connector, Bolted Gun Connector, Top Sub, Booster-to-Booster Tandem Sub, EBFire® Switch Tandem Adaptor Assembly with Port and Arming Sub Adaptor Assembly with Port.

VariJar High Angle Linear ▶

The VariJar was developed to further enhance extended reach and jarring efficiency during slickline operations in high angled wells.

Features include an increased stroke which allows higher impacts being achieved during jarring, roller bearings to minimise the friction between the jar rod and housing allowing the jar to close freely in higher angle wells. Slotted housing as opposed to circular ports to allow fluid ingress and egress preventing debris from entering the jar and causing jamming of the jar mechanism.

The VariBall self-aligning top and bottom subs minimize friction between the jar assembly and the tubing wall.

