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, license, 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 operate 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. Hunting business units consciously operate in a manner that includes environmental matters as an integral part of its business plan.

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

This hunting goal is "Total Customer Satisfaction".

Further Information

| Web | www.hunting-intl.com |
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VariBall™ Roller System Field Test Deviations

- Major North Sea Operator 1
- Major North Sea Operator 2
- Major North Sea Operator 3

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VariBall System Technical Information

- Capillary VariBall
- E-Line Roller System
- Capillary
- VariJar
- Ballistic

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This hunting goal is "Total Customer Satisfaction".
The VariBall™ Roller System has been developed to further enhance extended reach in Slickline/E-Line operations in highly deviated wells. Successful wireline operations in excess of 80º have been performed utilising the VariBall Roller System.

The 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. Successful wireline operations in excess of 80 degrees are now routinely performed utilising the VariBall Roller System.

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 inbuilt 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.

Slickline VariBall

The Slickline VariBall System has been designed to provide an efficient and effective downhole wire cutter for use in highly deviated wells. Compared to a standard Go-D Deal, the VariBall Go-D Deal minimises friction, increasing the potential to reach the target depth and allow successful wire cutting operations.

Benefits of the VariBall™ Roller System

• Four 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
• 360º 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, reviews design of chassis to roller which allows ingress / egress of wellbore debris
• Cool design – inventory and space saving
• VariBall Rollers are 4140/45 carbon steel standard and have been put through a hardening process.

Varial High Angle Liner

The VariBall™ Roller System has been developed to further enhance extended reach wire line operations in high angled wells.

Features include an increased stroke which allows higher impacts being achieved during press, roller bearings to minimise the friction between the jar rod and housing allowing the jar to close more in higher angle wells. Balanced housing as opposed to circular ports to allow fluid ingress and egress therefore preventing solids entering the jar and causing sticking of the jar mechanism.

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

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 System can be run on any customer gun size from 2 1/8" up to 4 1/2".

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

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