The 3-in-1 Nautilus provides acoustic positioning, depth control and automatic streamer steering in one integrated unit. The combination of Seal Sentinel® plus Nautilus provides the most advanced and quietest steered streamer in the industry. Nautilus regularizes the spread automatically to give better 3D coverage, and provides greatly improved 4D repeatability by combining this with feather-matching, depth control and more accurate steering to pre-plot positions.

**FEATURES:**
- Single integrated in-line unit, purpose designed for Sentinel streamers, providing:
  - positioning with full acoustic bracing
  - depth control
  - steering
- Streamer-powered
- Advanced acoustic network
- Advanced hydrodynamic design provides powerful steering
- Autonomous streamer separation and depth regularization
- Redundant telemetry and power supply

**BENEFITS:**

**Safer:**
- In-line power reduces in-water HSE exposure
  - No routine lithium battery shipments
  - Fewer workboat trips
- Reduced risk of streamer tangles
- Safe deployment of closer streamer separations for denser spreads

**Quieter:**
- Fewer ancillary devices on cable
- Quieter when steered

**Better:**
- Improved 4D repeatability
- Improved full streamer positioning
- Reduced infill due to uniform streamer spread
- Improved signal-to-noise ratio with lowest-noise steered streamer
NAUTILUS STREAMERS ON “AUTOPILOT”
Nautilus functions autonomously to regularize the streamer spread. It calculates the separation between streamers and applies compensation steering to maintain the specified separation from the designated master streamer. Likewise the streamer depths automatically correct to a preset level, allowing robust and stable control of BroadSeis™ variable-depth streamer profiles.

Nautilus provides options for greater operational flexibility:
- Regularize spread to master
- Steer master and regularize rest of spread to follow
- Independent steering of any or all streamers

DOVETAILE™ EFFICIENT STREAMER ACQUISITION
Nautilus is ideal for use in Dovetail streamer configurations. Dovetail combats poor far-offset fold coverage due to extreme feathering, caused by strong local currents etc. by using three interlinked components:

Acquisition:
- Fan-Mode streamer acquisition by Nautilus, which can be programmed to produce a fanned spread automatically
- Variable Bin Expansion (VBE) applied to onboard binning to facilitate vessel steering for maximum coverage

Processing:
- Trace interpolation using REVIVE5D, an intelligent 5D anti-leakage Fourier algorithm

Dovetail reduces survey time leading to faster data receipt and reduced HSE exposure, with no reduction in data quality.

DENGER SPREADS
The powerful steering allows closer streamer separations to be deployed. Combined with our high-capacity multi-streamer vessels this can provide denser spreads for high-resolution data acquisition.

FULLY BRACED ACOUSTIC NETWORK
The Nautilus nodes provide a fully braced acoustic network, with no additional devices required for mounting on the streamers. This provides acoustic positioning along the full length of the streamer to ensure the most accurate streamer position.

The unique multiple chirp system allows a quantitative measure of the quality of the acoustics.

For more information, visit www.cggveritas.com

As the Nautilus wing unit clips to the cable during deployment, it is easily stored in racks when not in use.

The Nautilus fins clip easily over the node unit for deployment.

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