Isolizer™ Centralizer

The Isolizer™ centralizer is an alternative solution to centralizer subs for tight-tolerance applications. Unlike conventional centralizer subs that can only be placed between joints, the Isolizer centralizer provides the flexibility of placement at any point on the casing string. This design helps increase both safety and efficiency by eliminating the need for additional connections made on the rig floor.

The Isolizer centralizer is designed to be used in applications such as tight tolerance and under-reamed hole sections that demand the powerful restoring force of a high-performance centralizer. The Isolizer centralizer is available in almost any casing size or open-hole combination to allow casing centralization for even the most challenging wellbore configurations.

The Isolizer centralizer is a slip-on, tight-tolerance, steel bow spring centralizer integrated with composite-resin-blend stop collars. The stop collars are chemically bonded directly to an abraded surface of the casing joint with field-proven adhesion-bond values so high that the stop collar is essentially integral to the casing.

Additionally, Halliburton offers an industry-unique design with windowed end rings through which composite-resin-blend blades are adhered to the casing with allowance for the compression of the bow springs. This design helps reduce the running forces by pulling the centralizer through tight tolerance sections rather than pushing it through with the upper end ring.

The Isolizer centralizer in combination with the casing-bonded stop collars can be installed on the customers’ casing in a pipe yard, a Halliburton facility or certain field locations. This design accommodates casing stand lengths that stay within the limits of the pipe stand while reducing any wait time for grade- or thread-specific matches.

**Application**

- Designed for lean-profile drilling applications where centralizers are required to pass through close- / tight-tolerance sections with powerful restoring force to centralize casing in under-reamed hole sections
- Meets most deep water well construction designs and requirements

**Benefits**

- Offers placement flexibility anywhere on the casing string and is not limited to placement between joints as with conventional centralizer subs
- Easy installation onto the casing by a trained installation crew and can be completed in a pipe yard, a Halliburton facility or as required in certain field locations
- Pre-installation results in rig-floor safety improvements over conventional centralizer subs by reducing the number of connections to be made on the rig floor by as much as 50%
  - Configuration reduces casing stand length over conventional centralizer subs
- Window stop collar design allows centralizers to be pulled in either direction, thus reducing the starting and running forces
- Ideal for CRA tubulars and are not casing weight, grade- or thread-dependent
- The slip-on design avoids the need for grade- or thread-specific matches to the casing string, significantly reducing lead time over the conventional centralizer subs manufacturing requirements.
Features

- Two models are available
  - Rotating model – stop collars are placed outside the centralizer end rings
  - Pull through versions

- Centralizer placement for optimized mud displacement and cement placement can be modeled with Halliburton’s industry unique predictive analysis and modeling service, iCem® Service

- Finite Element Analysis (FEA) is conducted to validate the performance of each individual centralizer design according to specific well parameters.

- Centralizer bow springs and stop collars can be custom designed to meet unique well parameters

- Composite-resin-blend stop collars are field proven and the bonding process for applying stop collars helps assure a strong mechanical bond
  - Helps mitigate corrosion as the process is non-damaging to the tubulars

- Can be used in high temperature environments

- Can be installed on any grade of casing including CRA alloys

For more information on the Isolizer™ Centralizer, please call your local Halliburton representation or email us at cementing@halliburton.com.

© 2015 Halliburton. All rights reserved. Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.