

Right technology

The background of the entire slide is a photograph of an oil drilling rig in a desert environment. The rig is a tall, lattice-structured derrick with a platform at the top. The desert landscape is arid with sparse, low-lying vegetation. The entire image is overlaid with several horizontal, wavy bands of different shades of blue, creating a layered, oceanic effect. The top band is a light blue, followed by a medium blue, and then a darker blue band that covers the middle section of the image.

Right application

Optimus
QUALITY WHERE YOU NEED IT

The Optimus Range

Well integrity begins with the cementing process. To achieve a high-quality cement job, Centek provides a range of centralizers that center casing for correct cement placement. We offer various options that enable you to choose the right product technology for your application, giving optimal stand-off and centralization at an economical price.

The range is designed for use in generally less demanding conditions, both offshore and onshore. Optimus products are manufactured in-house using the latest technology including heat treatment, press shop, machine shop and paint shop. Testing is completed at site of manufacture and all products are supported by Centek Group quality assurance.

Optimus - quality where you need it at a price you can afford.

The Optimus range - distributed exclusively by Centek Group.

Optimus:
'(a) compromise that produces the best possible result'

Single Piece, Bow Spring Centralizer

The Optimus single piece, bow spring centralizer has been developed as a solution for markets that don't currently benefit from Centek technology.

The unit is decreased in height when compared to Centek standard models but maintains restoring force to meet the needs of less demanding wells, while the blade strength retains excellent stand-off.

Available to suit casing sizes ranging from 4 1/2" to 20".



FEATURES AND BENEFITS

- For use in vertical, deviated and horizontal wells
- Low start and running forces
- Flexible
- Good stand-off
- High restoring force
- Testing exceeds API 10D standards



Non-Weld Hinged Bow Spring Centralizer

The Optimus non-weld hinged, bow spring centralizer is designed for vertical or deviated wells. Features include enhanced restoring force combined with low starting force ensuring good zonal isolation. High performance characteristics are combined with easy field assembly and lower delivery costs.

Bow springs are manufactured from high quality alloy steel, hot bent to shape using dies and then heat treated under controlled temperature and time cycles for consistent spring characteristics.



FEATURES AND BENEFITS

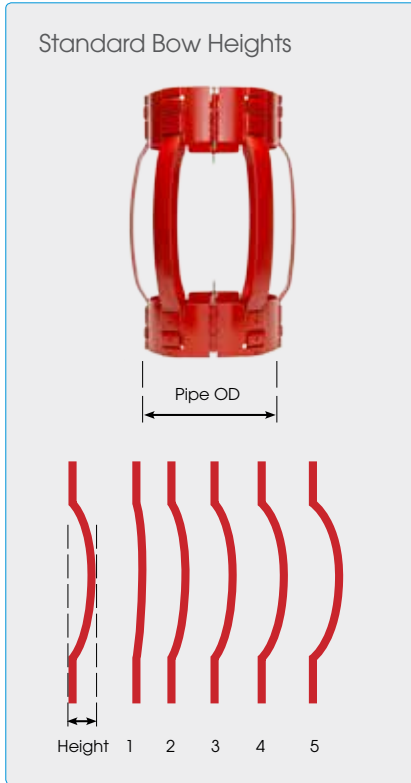
- Extended profile
- Easy field assembly
- Supplied with stop collar and hinge pin
- Testing exceeds API 10D standards



Sizing Non-Weld Hinged Bow Spring Centralizer

Available to suit casing sizes ranging from 4 1/2" to 24".

5 different bow profiles provided to meet all open hole configurations.



Rigid Centralizer

The Optimus spiral rigid centralizers induce swirl which, in turn, increases the displacement efficiency. These centralizers are made from solid steel so they function as bearings during pipe rotation and reduce torque requirements. The spiral blades overlap the 360 degree circumference and give reduced flow area between them.

They also decrease casing drag and plow effect.

The Optimus range is complimented further by the straight blade rigid centralizer option, tested to API compression standards and suitable for all well designs.

Available to suit casing sizes ranging from 2 7/8" to 26"



FEATURES AND BENEFITS

- High axial load strength
- Steel construction provides superior toughness
- Spiral blades allow passage through unexpected under gauge open hole
- Units can be run between casing and in less demanding wells



Stop collars

The Optimus range of stop collars are available in either a slip on or latch on design. Both are secured to pipe via the use of high tensile steel, concave designed set screws. Heat treated hinge pins are used for the latch on device to eliminate brittleness during installation.

Set screws will penetrate the casing sufficiently, if installed correctly and to the correct torque value.

Axial holding forces are ca. 22,000lbs. or greater depending on the size range, which far exceeds the value set by API. API further allows for 4" of pipe gouge which could also lead to corrosion. The Optimus range reaches this higher value with no gouging of pipe.

Stop collars are available in sizes to match selected centralizer.



Right Technology, Right Application

The Optimus range is suitable for most standard well types.
Make Optimus the tool of choice for your applications.

Application	Premium Range												Optimus Range						
	Centralizers								Stop Collars				Centralizers				Stop Collars		
	Sub	CentFace	UROS-CT	TUR CT	UROS	TUR	S2 HD	S2	Hinged Centralizer	OOSO	HDSO	HDHN	NASO	Rigid - Straight	Rigid - Spiral	BS - Hinge Non-Weld	BS - Single Piece	Collar - Latch On	Collar - Slip On
Vertical Sections	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Deviated Sections	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Horizontal Sections		●	●	●	●	●	●	●		●	●		●	●	●		●		●
Highly Deviated Sections or Dog Leg Sections	●	●	●	●	●	●	●	●		●	●		●						
ERD Sections							●	●		●	●		●	●	●				●
Open Hole	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cased Hole	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Under-reamed Sections	●	●	●	●	●	●				●	●		●						
Wash Out Sections	●	●	●	●	●	●				●	●		●						
HTHP Wells	●	●	●	●	●	●	●	●		●	●		●				●		●
Geothermal Wells					●	●	●	●		●	●		●		●		●		●
Uncemented Completions	●	●	●	●	●	●			●	●	●	●	●				●		
Gravel Pack / Screens							●	●		●	●		●	●	●				
Deep Water	●	●	●	●	●	●	●			●	●		●						
Tight Tolerance Strings	●	●	●	●						●	●		●						
Rotating Strings	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●
S & J Type Wells		●				●	●	●	●	●	●		●						

The Optimus range is exclusively distributed by Centek Group and is manufactured to meet Centek's stringent quality standards.



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