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PRODUCT OVERVIEW

UROS UNDER REAM OFFSET BOW SPRING CENTRALIZER

ENGINEERING SOLUTIONS FOR CHALLENGING WELLS

The UROS centralizer features a patented offset bow design that significantly reduces starting and running forces in wells with under-reamed sections. It is specifically engineered to address challenges in navigating through previously set casings and expanding into open-hole sections. With its ultra-high-strength, single-piece bow spring design, the UROS centralizer offers enhanced durability and flexibility, allowing it to handle both axial and radial loads effectively without any weak points.

This robust centralizer provides over a 50% reduction in starting and running forces compared to traditional under-ream products, ensuring smoother run-in-hole (RIH) performance even in tight annular restrictions. The UROS centralizer is designed to return to gauge in open-hole sections, enhancing standoff and zonal isolation. Ideal for demanding applications like under-reamed well sections, tight annular spaces, offshore and deepwater projects, and complex well paths such as horizontal/ERD and S-Type/J-Type wells, the UROS centralizer meets the unique engineering challenges posed by compressed bows in under-reamed sections.

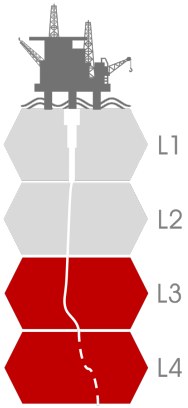
KEY PRODUCT BENEFITS

- Engineered for ultra-high-strength and flexibility
- Returns to gauge in the open hole
- Enhanced run-in-hole (RIH), stand-off and zonal isolation

TARGET APPLICATIONS

- Under-reamed well sections
- Tight annular applications
- Offshore and deep-water
- Highly deviated wells
- Horizontal/ERD wells
- S-Type/J-Type

PERFORMANCE RATINGS



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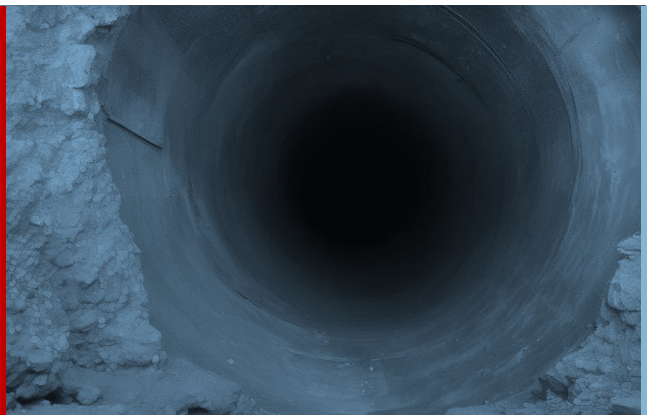
CORE PRODUCT SIZING

Product size	Centralizer Part Number	Recommended Stop Collar Part Number
7" ID for use in 8-1/2" Hole	0700-0812UROS	0700-00SO
7" ID for use in 9-1/2" Hole	0700-0912UROS	0700-00SO
7" ID for use in 9-7/8" Hole	0700-0978UROS	0700-00SO
7-3/4" ID for use in 9-1/2" Hole	0758-0900UROS	0758-00SO
7-5/8" ID for use in 9" Hole	0758-0912UROS	0758-00SO
7-5/8" ID for use in 9-1/2" Hole	0734-0912UROS	0734-00SO
9-5/8" ID for use in 12-1/4" Hole	0958-1214UROS	0958-00SO
9-5/8" ID for use in 13-1/2" Hole	0958-1312UROS	0958-00SO
9-7/8" ID for use in 12-1/4" Hole	0978-1214UROS	0978-00SO
9-7/8" ID for use in 14" Hole	0978-1400UROS	0978-00SO
10-3/4" ID for use in 14-3/4" Hole	1034-1434UROS	1034-00SO
13-3/8" ID for use in 17-1/2" Hole	1338-1712UROS	1338-00SO
13-5/8" ID for use in 17-1/2" Hole	1358-1712UROS	1358-00SO
13-5/8" ID for use in 19" Hole	1358-1900UROS	1358-00SO
14" for use in 17-1/2" Hole	1400-1712UROS	1400-00SO
16" for use in 20" Hole	1600-2000UROS	1600-00SO
17" for use in 20" Hole	1700-2000UROS	1700-00SO

APPLICATION



UNDER REAM SECTIONS

Under reamed well sections, where part of the well that has been enlarged beyond the diameter of the original drilled hole, create several engineering issues which affect the run-in-hole (RIH) performance due to the bows being 'compressed' while passing through smaller ID of the previous set casing.

FULL CENTRALIZER PRODUCT RANGE

MODEL	DUTY			STYLE			CONSTUCTION			STANDOFF		UNDER-REAMED				FLEX		APPLICATION				PERFORMANCE		
	Light	Standard	Heavy	Slip-on	Hinged	Heat Treated	Single Piece	Welded Bows	Mechanical	Bow Spring	Solid Body	Standard Bows	Offset Bows	Close Tolerance	Sub	Used in tight spots	Used in restrictions	Level 1	Level 2	Level 3	Level 4	Flexibility	Runability	Strength
OBH	■				■	□			■	■								■				5	4	4
OBH-W	■				■	□		■		■								■				5	5	5
OSN			■	■			■				■							■						
ES		■		■		■	■			■									■			6	7	6
OBS		■		■		■	■			■									■	■		4	5	7
S2		■		■		■	■			■						■		■	■	■		7	8	7
S2-H		■			■	■	■			■						■		■	■	■				
S2-HD			■	■		■	■			■		■				■		■	■	■		7	7	8
TUR		■		■		■	■			■		■				■	■			■	■			
TUR-CT		■		■		■	■			■		■		■		■	■			■	■			
TUR-SUB		■		■		■	■			■		■		■	■	■	■			■	■			
UROS		■		■		■	■			■			■			■	■			■	■	8	8	7
UROS-CT		■		■		■	■			■			■	■		■	■			■	■			
UROS-SUB		■		■		■	■			■			■	■	■	■	■			■	■			

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