



PRODUCT OVERVIEW

UROS-SUB BOW SPRING CENTRALIZER SUB

ENGINEERING SOLUTIONS FOR CHALLENGING WELLS

The UROS-SUB is ideal for applications in deepwater environments, ultra-narrow close-tolerance conditions, and as a superior alternative to standard subs, which often have higher insertion forces due to bow designs.

Its single-piece design minimizes the risk of failure in high-risk wellbores, while allowing the centralizer to rotate on the sub body with minimal torque. This innovative solution is built to perform under extreme conditions, with the centralizer recessing into the sub body during run-in-hole (RIH) to pass through the tightest restrictions.

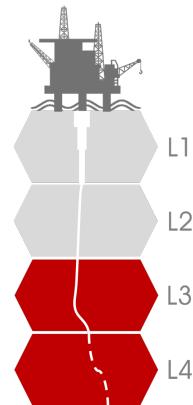
Key benefits of the UROS-SUB centralizer include its suitability for ultra-tight tolerance applications and a low equivalent circulating density (ECD) profile to minimize surge effects during RIH. The design enables rotation when fully compressed and features fewer offset bows for more efficient RIH. The interlocked band design combines the strength of a single-piece centralizer with optimized RIH performance. The sub body itself is manufactured to meet or exceed API 5CT standards for burst, collapse, and tensile strength, and it can be threaded to fit the specific casing string requirements.

PERFORMANCE RATINGS

8
FLEXIBILITY

8
RUNABILITY

7
STRENGTH



KEY PRODUCT BENEFITS

- Designed specifically for ultra-tight tolerance applications
- Low equivalent circulating density (ECD) signature to lower surge effect during run-in-hole (RIH)
- Allows for rotation when fully compressed
- Offset bows for more efficient RIH
- Will meet or exceed host casing burst and collapse specifications
- Interlocked band design gives the strength of a single piece centralizer

TARGET APPLICATIONS

- Deepwater
- Ultra-narrow annulus
- Alternative to standard subs

CORE PRODUCT SIZING

Product size	Centralizer Part Number
9-5/8" ID for use in 12-1/4" Hole	0938-1214 UROS-SUB
11-3/4" ID for use in 14-1/2" Hole	1134-1412 UROS-SUB
11-3/4" ID for use in 14-3/4" Hole	1134-1434 UROS-SUB
16" ID for use in 20" Hole	1600-2000 UROS-SUB
17" for use in 20" Hole	1700-2000 UROS-SUB

FULL CENTRALIZER PRODUCT RANGE

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

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