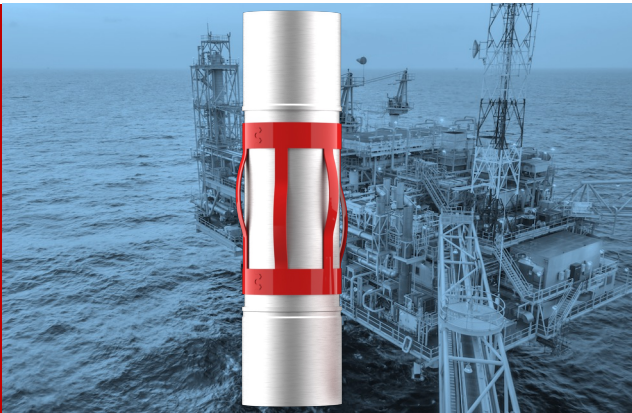


PRODUCT OVERVIEW

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.

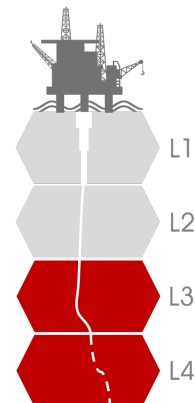
KEY PRODUCT BENEFITS

- 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

PERFORMANCE RATINGS



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

MODEL	DUTY	STYLE	MATERIAL	CONSTRUCTION	STANDOFF	UNDER-REAMED	FLEX	APPLICATION	PERFORMANCE
	Light Standard Heavy	Slip-on Hinged Steel	Heat Treated Single Piece Welded Bows	Mechanical Bow Spring Solid Body	Standard Bows Offset Bows Close Tolerance Subs	Used in tight spots Used in restrictions	Level 1 Level 2 Level 3 Level 4	Flexibility Runability Strength	
OBH	Light	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in tight spots	Level 1	Flexibility	5 4 4
OBH-W	Light	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	5 5 5
OSN	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	0 5 8
OBS-2	Light	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	6 7 6
ES	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	6 7 6
OBS	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	4 5 7
S2	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	7 8 7
S2-H	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	7 8 7
S2-HD	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	7 7 8
TUR	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	
TUR-CT	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	
TUR-SUB	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	
UROS	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	8 8 7
UROS-CT	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	
UROS-SUB	Standard	Slip-on	Heat Treated	Mechanical	Standard Bows	Used in restrictions	Level 1	Flexibility	

**FULL
CENTRALIZER
PRODUCT
RANGE**