

PRODUCT OVERVIEW

TUR-SUB BOW SPRING CENTRALIZER SUB



ENGINEERING SOLUTIONS FOR CHALLENGING WELLS

Engineered for use in tight annulus conditions and deep-water operations, the TUR-SUB centralizer compresses virtually flat to pass through narrow well sections while maintaining integrity and strength. Its precise manufacturing and single-piece construction eliminate the risks of failure, ensuring reliable performance in critical wellbore environments. During operations, the TUR-SUB's design allows the sub body to rotate within the centralizer at minimal torque, with the centralizer fully recessing into the sub body to navigate the tightest restrictions.

The TUR-SUB centralizer's interlocked band design provides the strength of a single-piece construction, ensuring superior durability. The sub body is built to meet API 5CT standards and will exceed burst, collapse, and tensile ratings and will be threaded to fit the casing string. Additionally, Centek offers the flexibility to tailor sub bodies to meet customer-specific requirements, making the TUR-SUB a versatile and reliable choice for challenging well operations.

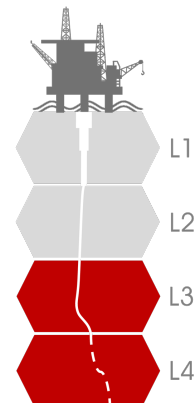
KEY PRODUCT BENEFITS

- 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
- Fewer 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 that will have higher initial insertion forces due to bow design

PERFORMANCE RATINGS



CORE PRODUCT SIZING

Product size	Centralizer Part Number
9-5/8" for use in 12-1/4" Hole	0958-1214TUR-SUB
11-3/4" for use in 14" Hole	1134-1400TUR-SUB
11-3/4" for use in 14-1/2" Hole	1134-1412TUR-SUB
11-3/4" for use in 14-3/4" Hole	1134-1434TUR-SUB
14" for use in 17-1/2" Hole	1400-1712TUR-SUB
16" for use in 20" Hole	1600-2000TUR-SUB
17-7/8" for use in 22" Hole	1778-2200TUR-SUB
9-5/8" for use in 12-1/4" Hole	0958-1214TUR-SUB
11-3/4" for use in 14" Hole	1134-1400TUR-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	■		■	■		■		■	5 4 4
OBH-W	■		■	■		■		■	5 5 5
OSN		■	■	■	■			■	0 5 8
OBS-2	■		■	■		■		■	6 7 6
ES		■	■	■		■		■	6 7 6
OBS		■	■	■		■		■	4 5 7
S2		■	■	■		■	■	■	7 8 7
S2-H		■	■	■		■	■	■	7 8 7
S2-HD		■	■	■		■	■	■	7 7 8
TUR		■	■	■		■	■	■	
TUR-CT		■	■	■		■	■	■	
TUR-SUB		■	■	■		■	■	■	
UROS			■	■		■	■	■	8 8 7
UROS-CT			■	■		■	■	■	
UROS-SUB			■	■		■	■	■	

**FULL
CENTRALIZER
PRODUCT
RANGE**