

## 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.

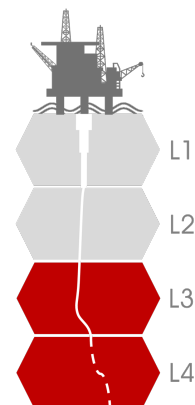
### KEY PRODUCT BENEFITS

- 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

## FULL CENTRALIZER PRODUCT RANGE

MODEL	DUTY			STYLE		CONSTRUCTION			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																							7	8	7
S2-HD																							7	7	8
TUR																									
TUR-CT																									
TUR-SUB																									
UROS																							8	8	7
UROS-CT																									
UROS-SUB																									