

PRODUCT OVERVIEW

TUR UNDER REAM BOW SPRING CENTRALIZER

ENGINEERING SOLUTIONS FOR CHALLENGING WELLS

The Centek TUR bow spring centralizer is engineered for use in close tolerance, under-reamed applications commonly found in some of the world's most challenging offshore fields. The flexible TUR centralizer excels in providing effective cementation through restrictions. Its large flow-by area enhances fluid dynamics, ensuring improved circulation and displacement efficiency, which are crucial for achieving optimal cementing results in difficult wellbore environments.

The TUR centralizer offers several key benefits, including low starting forces and reduced running forces, which help save time during operations. Its application-specific restoring force ensures that the centralizer performs reliably in highly deviated, horizontal, and extended-reach wells. The TUR is ideal for under-reamed well sections, offshore and deepwater applications, and vertical washout areas, making it a versatile solution for complex well designs like S-Type and J-Type configurations.

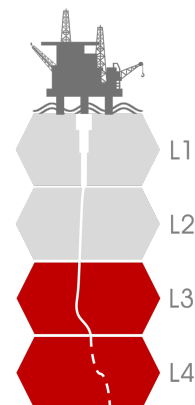
KEY PRODUCT BENEFITS

- Low starting forces
- Reduced running forces - saves time
- Application specific restoring force

TARGET APPLICATIONS

- Under-reamed wells sections
- Offshore and deepwater
- Highly deviated wells
- Horizontal/ERD wells
- Vertical wash out sections
- S-Type/J-Type

PERFORMANCE RATINGS



CORE PRODUCT SIZING

Product size	Centralizer Part Number	Recommended Stop Collar Part Number
4-1/2" for use in 6-1/2" Hole	0412-0612TUR	0412-00SO
4-1/2" for use in 7-1/4" Hole	0412-0714TUR	0412-00SO
5" for use in 7" Hole	0500-0700TUR	0500-00SO
5" for use in 7-1/2" Hole	0500-0712TUR	0500-00SO
5" for use in 8-1/2" Hole	0500-0812TUR	0500-00SO
5" for use in 9-1/2" Hole	0500-0912TUR	0500-00SO
5-1/2" for use in 7-1/2" Hole	0512-0712TUR	0512-00SO
5-1/2" for use in 9-1/2" Hole	0512-0912TUR	0512-00SO
7" for use in 9" Hole	0700-0900TUR	0700-00SO
7" for use in 9-1/4" Hole	0700-0914TUR	0700-00SO
7-3/4" for use in 10-1/4" Hole	0734-1014TUR	0734-00SO
7-5/8" for use in 9-1/2" Hole	0758-0912TUR	0758-00SO
7-5/8" for use in 9-7/8" Hole	0758-0978TUR	0758-00SO
7-5/8" for use in 10-5/8" Hole	0758-1058TUR	0758-00SO
8-5/8" for use in 9-7/8" Hole	0858-0978TUR	0858-00SO
9-5/8" for use in 12-1/4" Hole	0958-1214TUR	0958-00SO
9-5/8" for use in 13-1/4" Hole	0958-1314TUR	0958-00SO
9-7/8" for use in 12-1/4" Hole	0978-1214TUR	0978-00SO
9-7/8" for use in 13-1/2" Hole	0978-1312TUR	0978-00SO
10" for use in 13-1/4" Hole	1000-1314TUR	1000-00SO
10.15" for use in 14-3/4" Hole	1015-1434TUR	1015-00SO
10-3/4" for use in 13" Hole	1034-1300TUR	1034-00SO
10-3/4" for use in 13-1/2" Hole	1034-1312TUR	1034-00SO
13-3/8" for use in 16" Hole	1338-1600TUR	1338-00SO
13-3/8" for use in 17-1/2" Hole	1338-1712TUR	1338-00SO
13-3/8" for use in 19" Hole	1338-1900TUR	1338-00SO
13-5/8" for use in 17-1/2" Hole	1358-1712TUR	1358-00SO
14" for use in 19" Hole	1400-1900TUR	1400-00SO
16" for use in 20" Hole	1600-2000TUR	1600-00SO

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		■		■		■	■			■			■	■	■	■	■				■	■			