

PRODUCT OVERVIEW

S2-HD SINGLE PIECE BOW SPRING CENTRALIZER

ENGINEERING SOLUTIONS FOR CHALLENGING WELLS

The S2-HD Bow Spring Centralizer is engineered to provide exceptional strength and reliability in the most challenging well conditions. This heavy-duty version of the patented S2 centralizer is constructed from a single piece, ensuring no weak points and delivering ultra-high durability essential for high-load environments where traditional solid centralizers might be used. The S2-HD is specifically designed for casing-running situations in which heavy loads and extreme forces are at play.

Beyond its unmatched strength, the S2-HD is designed to enhance operational efficiency. It maximizes flow area, reduces torque, and enables smoother rotation and reciprocation during run-in-hole (RIH) operations, which can significantly streamline well operations and reduce risks associated with high-friction environments. The centralizer is rigorously tested to exceed API 10D standards, giving operators confidence in its performance across a wide range of challenging applications.

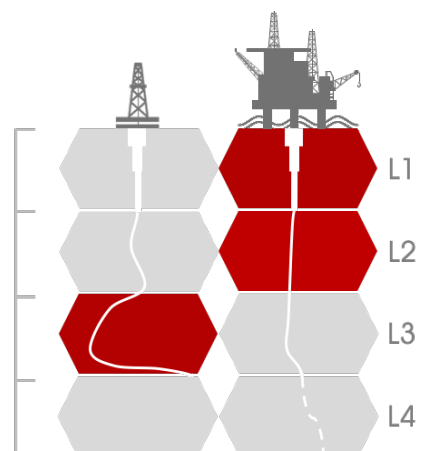
KEY PRODUCT BENEFITS

- Tested to exceed API 10D 7th Edition
- Supports cementing best practices
- Made to gauge
- Optimum standoff
- Maximum flow by area
- Reduced torque and drag
- Enhanced rotation and reciprocation

TARGET APPLICATIONS

- Tight spots
- Onshore and offshore wells
- Unconsolidated wells
- Extended reach wells
- Horizontal and highly deviated wells
- HTHP and geothermal wells
- Shale oil and gas wells
- OH completions w/packers
- Sand screen completions
- J-type and S-type

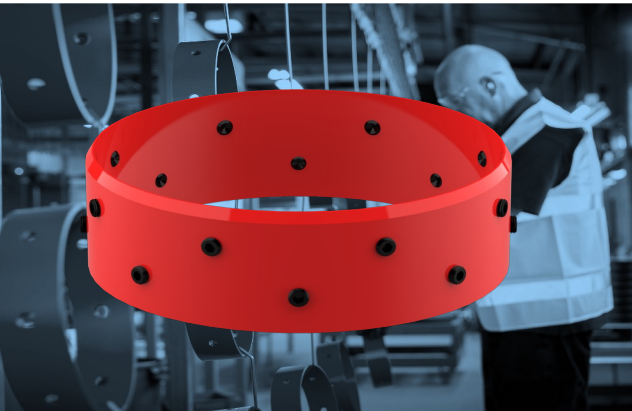
PERFORMANCE RATINGS



CORE PRODUCT SIZING

Product size	Centralizer Part Number	Recommended Stop Collar Part Number
5-1/2" ID for use in 8-1/2" Hole	0512-0812SHD	0512-HDSO
5-1/2" ID for use in 8-3/4" Hole	0512-0834SHD	0512-HDSO
7" ID for use in 8-1/2" Hole	0700-0812SHD	0700-HDSO
7" ID for use in 8-3/4" Hole	0700-0834SHD	0700-HDSO
9-5/8" ID for use in 12-1/4" Hole	0958-1214SHD	0958-HDSO
9-7/8" ID for use in 12-1/4" Hole	0978-1214SHD	0978-HDSO
13-3/8" ID for use in 16-1/2" Hole	1338-1612SHD	1338-HDSO
13-3/8" ID for use in 17-1/2" Hole	1338-1712SHD	1338-HDSO
13-5/8" ID for use in 16-1/2" Hole	1358-1612SHD	1358-HDSO
13-5/8" ID for use in 17-1/2" Hole	1358-1712SHD	1358-HDSO
14" ID for use in 17-1/2" Hole	1400-1712SHD	1400-HDSO

RECOMMENDED



HDSO SLIP ON STOP COLLAR

The HDSO Stop Collar is the heavy-duty counterpart to the S2-HD centralizer, designed for challenging wells where strength is essential. Engineered for high performance, each collar withstands intense axial forces with heat-treated, tempered steel. Features include high holding force, anti-vibration screw retention, and fitment tested up to 50 lb-ft torque.

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**