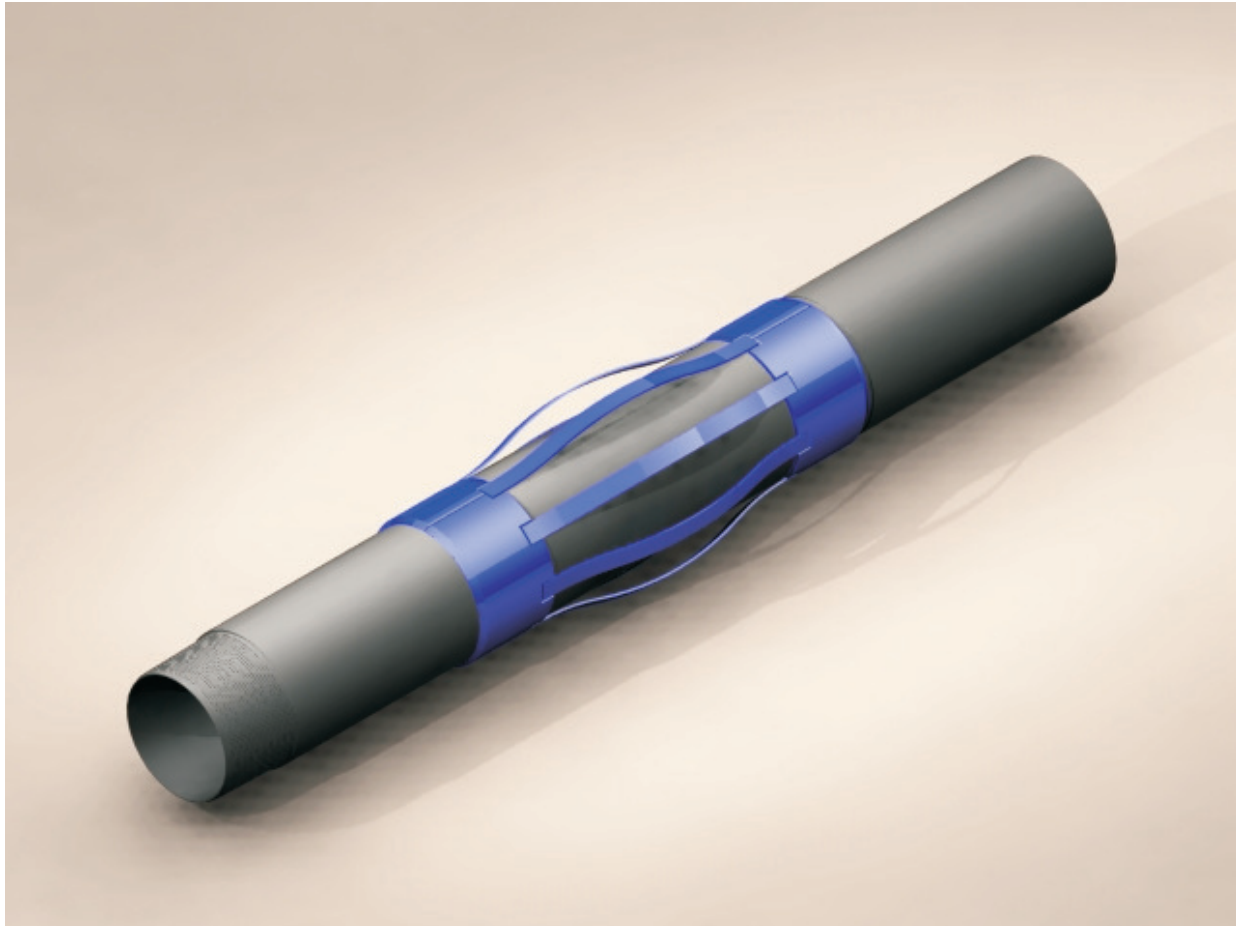


IJ BOW

INTEGRAL JOINT BOW SPRING CENTRALIZER

FOR CLOSE TOLERANCE OR MINIMUM SPACING CASING-IN-CASING PROGRAMS



- **Designed for Under-Reamed/Bi-Center Bit Applications**
- **Compound Bow Design Minimizes Starting and Running Forces While Providing High Restoring Force**
- **Provides Excellent Standoff Where Other Centralization Cannot be Used**
- **Integral to the Casing for High Strength**
- **Only In-Line Bow Which Can be Rotated**
- **Best Value in its Class**

The **IJ Bow**, integral joint bow spring, centralizer provides a unique solution for bi-center bit drilled holes. These holes require casing centralization after very close tolerance casing-in-casing runs. The compressed bow spring expands to effectively centralize the casing in the large under-reamed section of open hole. The IJ Bow accomplishes these feats by use of engineered compound bow springs held by a slim hole machined casing body designed to your specification and threading. The low running force combined with high restoring force further enhances getting casing to bottom in highly deviated wells. The IJ Bow also allows the casing to be rotated to help overcome trouble spots. Effective stand-off, high strength and placement ease in combination with its economy combine to make the IJ Bow an unbeatable value. The **IJ Bow** centralizer is the right choice in under-reamed hole centralization.

IJ BOW

INTEGRAL JOINT CENTRALIZER

FOR CLOSE TOLERANCE OR MINIMUM SPACING CASING-IN-CASING PROGRAMS

**STANDARD LENGTH 65" - 83" (OTHERS AVAILABLE)
 LENGTH PROVIDES 12 INCH TONG CLEARANCE EACH END
 LENGTH SUFFICIENT FOR ONE THREAD RE-CUT EACH END**

PRODUCT DATA								
CASING SIZE IN.	MINIMUM PREVIOUS CASING SIZE AND WEIGHT	DRIFT DIAMETER	COMPRESSED DIAMETER IN.	BOW SPRING OVERALL DIAMETER IN.	NUMBER OF SPRINGS	HOLE SIZE IN.	OVERALL LENGTH IN.	TOTAL WEIGHT TYPICAL CASING LBS.
5 1/2	N/A	N/A	5.905	7.636	6	6 1/2	65	145 For 23# Casing
7 5/8	9 5/8 - 53.5#	8.379	8.242	11.225	6	9 7/8	76	256 For 39# Casing
7 3/4	9 5/8 - 53.5# 9 3/4 - 59.2# 9 7/8 - 62.8#	8.379 8.500 8.500	8.366	11.349	6	9 7/8	76	297 For 46.1# Casing
9 7/8	11 3/4 - 65# 11 7/8 - 71.8#	10.526 10.625	10.522	13.513	8	12 1/4	80	442 For 62.8# Casing
11 3/4	13 5/8 - 88.2#	12.250	12.239	14.981	12	14 3/4	80	463 For 65# Casing
11 7/8	13 3/8 - 68# 13 5/8 - 88.2#	12.259 12.250	12.250	14.992	12	14 3/4	80	505 For 71.8# Casing
13 3/8	N/A	N/A	13.811	17.554	14	17	83	534 For 72# Casing
16	18 - 104.7#	N/A	16.497	20.242	16	20	83	729 For 97# Casing

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**BOX/PIN THREADS
 VARIOUS SPRING LENGTHS**

**BUILT TO SPECIFIC
 THREAD, WEIGHT, AND
 GRADE REQUIREMENTS**

PLEASE CALL FOR SUITABLE APPLICATIONS AND AVAILABILITY

