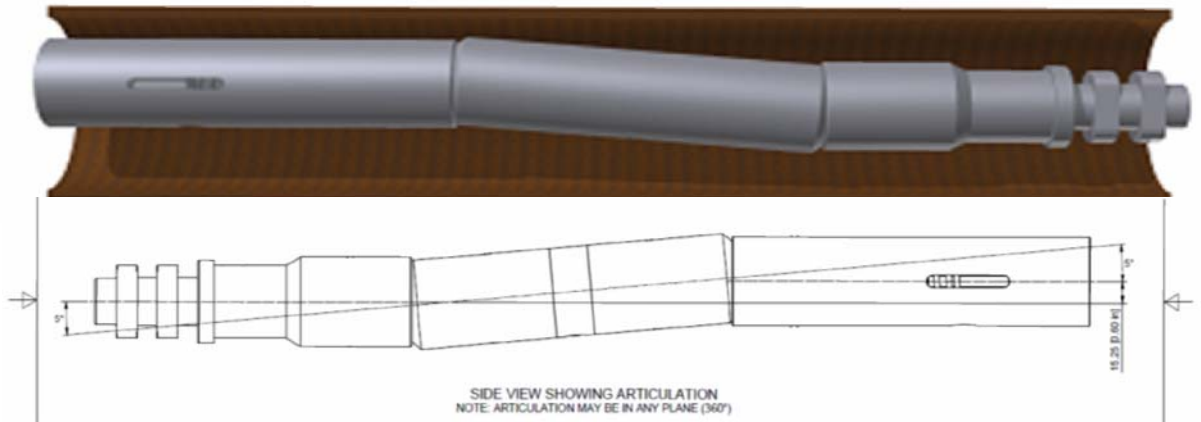


Limited Articulation Double Knuckle Joint

Augments jarring performance in deviated wells



Benefits

- ▶ Minimal angular movement eliminates over-flex.
- ▶ Maximizes load transfer between jar and larger lower tool string component when flexed.

Features

- ▶ Robust design to accommodate mechanical jarring impact.
- ▶ Limited 5° axis shift ensures continual linear platform throughout tool string.

Impact Selector's Limited Articulation Double Knuckle Joint

is designed with mechanical jarring in mind. Industry standard knuckle joints are typically manufactured with a 10 to 15 degree deflection angle taken from the center line. Impact Selector's knuckle joints are limited to 5 degrees. A 5 degree axis shift ensures a continual linear platform throughout the tool string with sufficient flexibility to allow tool strings to negotiate restrictions and upsets within the well while still transmitting mechanical forces effectively.

The Double Knuckle Joint when used in combination with the High Deviation Roller Bogie jar and Roller Bogie system can augment jarring performance in deviated wells. The tool is available with all industry standard connections and is also available as a single knuckle.

Specifications

Size (inches)	1.250	1.500	1.750	1.875	2.125	2.500
Weight (lbs)	2	7	10	11	15	23
Length (inches)	17	16	17	16	17	20
Service Type	Standard and Sour service available					
Connection Type	All connections available to suit customer specification					

*Tool weights and lengths are average values per knuckle joint size. Also available as single knuckle joints.



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