



MechLOK Drill Pipe Swivel

MECHANICALLY LOCKABLE. FOR ERD WELL LINER INSTALLATIONS.

The MechLOK Drill Pipe Swivel can be run on any string where potential problems exist in reaching target depth due to torque and drag issues, typically in long, horizontal extended reach drilling (ERD) wells.

A drill-string deployed swivel tool, our MechLOK Swivel facilitates the rotation of the drill pipe above the liner in an ERD well, reducing drag, redistributing friction and mitigating helical buckling of the work-string. It also increases the available weight to push completions and liners to target depth in ERD wells.

Our MechLOK Swivel can be locked and prevented from swivelling immediately by a simple, mechanical manipulation of the drill-string. Once locked the tool can be rotated to the right or left, in compression or in tension. Using this unique, patented single tool mitigates the HSE risk involved in handling multiple roller bearing subs or alternative drag reducing tools.

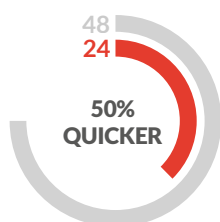
THE BENEFITS

- Reduces the need for heavy-weight drill pipe or collars
- Protects items from potentially harmful torque
- Immediate locking enables mechanical release of setting tools when required
- No drop ball, no hydraulic concerns
- Ensures completions or liners get to TD
- Maximises ROI

IN NUMBERS

■ Conventional Technology

■ MechLOK Drill Pipe Swivel



24 HOURS SAVED

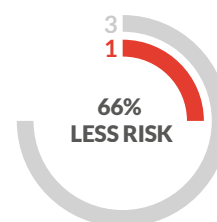
Using the MechLOK Swivel guarantees getting to target depth safely on the first attempt.



**\$1,000,000
\$550,000**

\$450,000 SAVED

By running a completion or liner in an ERD well in half the time.



REDUCED HSE EXPOSURE

Personnel injury risk drops dramatically due to the minimal manpower requirement.

Tool Specifications	Tool Parameters	
	Imperial Data Figures	Metric Data Figures
Drill Pipe Size	5" to 5-7/8"	127.000mm to 149.230mm
Tool O.D.	8.250"	209.60mm
Tool I.D.	2.598"	66.00mm
Tool Length Extended	151" / 12.61ft	3.84m
Tool Length Compressed	139" / 11.58ft	3.53m
Tool End Connections	To match drill-pipe connections	
Maximum Operating Temperature	350°F	175°C
Approximate Tool Weight	1,686lbs	765kg
Internal Yield Pressure	12,500psi	860bar
External Collapse Pressure	10,000psi	690bar
Tensile Yield of Tool	900,000lbs	410 metric tons
Compressive Yield of Tool	900,000lbs	410 metric tons
Maximum Dog Leg of Tool	10°/100ft	10°/30m
Operating Differential Pressure Rating	5,000psi	345bar
TBearing Life – Compression Load	(125,000lbs / 57 metric tons) 12hrs @ 50rpm	
Bearing Life at 50,000lbs Compression Load	(50,000lbs / 23 metric tons) 50hrs @ 50 rpm	
Recommended Rotary Speed	30 – 50rpm	
Maximum Intermittent Rotary Speed	85rpm	
Method to Lock Swivel	100% Mechanical	
Locking Method (RH – Clockwise)	25 Rotations in Tension	
Maximum Operating Torque Locked (RH or LH)	40,000ft.lbs	54,233Nm
Maximum Static Load on Bearings	325,000lbs (static) 150,000lbs (rotating)	147 metric tons (static) 68 metric tons (rotating)
Maximum Casing Size to Deploy Tool	9-5/8" 53.3# & 9-7/8" 62.8#	244.500mm 78.1kg/m & 250.830mm 91.6kg/m
Operating Range of Tool	0-35,000ft	0-10,668m

- Nomenclature: # - Pounds per foot
- Patent Number: GB 2559273

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