



**DR-1500**  
DRILLFLOOR ROBOT

# Drill Floor Robot

*DFR-1500*



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The fully electric Drill Floor Robot (DFR-1500) automates all pipe and tool operations to reduce the needs for manual labor on a rig's drill floor.

Automated grippers, spinners, clapping and other handling tools enable the DFR-1500 robot to perform safer, hands-free drill floor operations. With its unique Robot Tool Spinner Grippers (RTSG), the DFR-1500 can spin objects such as lifting subs, x-overs and stabilizers directly into or out of stick-up or other objects, for example spinning in a lifting sub off a BHA sub-assembly.


## Features & Benefits

- Easy to Install
- All Electric
- Lifting Capacity 1,500kg
- Designed for Operations in EX Zone
- Exchangeable Tools
- Automatic or Manual Controls





# Technical Data

Technical Data				
Services	Pick-up / Lay-down and Spin In/Out of drill floor components and tools, such as subs, x-overs, stabilizer and similar.			
	Height	Width	Length	
	3,170mm	1,620mm	5,200mm	
	Robot Tool Spinner Gripper (RTSG): Spinner Gripper: 577mm length and Ø492mm diameter			
Weight	DFR	RTSG	Cables	Total
	13,000kg	300kg	100kg	13,400kg
Payload Excluding RTSG	1,500kg			
Payload with RTSG	1,200kg at 2,500mm			
Gripper reach/span (diameter)	2 7/8 in. – 10 3/4 in.			
Accuracy	+/- 2mm at 25% load / +/- 5mm at maximum load			
Gripper Accuracy	+/- 2.5mm for measurement of the diameter of the gripped object			
Repeatability	+/- 1mm at any load			
Power Requirements	<ul style="list-style-type: none"> <li>• Approximately 80 kW peak, 22,75 kW on average</li> <li>• Voltage: 400-480 VAC, 50/60 Hz / 3 phase+ N</li> <li>• Circuit Breaker: 100A</li> <li>• Built-in Energy Recovery System</li> </ul>			