

T-320 CLUSTER SLIDER HR5000

TECHNICAL OVERVIEW

Rating	1,500 HP	1,100 kW
Hook load	706,000 lbs @ 12 lines	320 mt
Drilling depth theoretical	16,400 ft	5,000 m

Year of construction 2011, modification 2016

MAST

Type	Open face self-elevating	
Height	152 ft	46.3 m
Base	30 ft x 8 ft	9 x 2.5 m
Max. static hook load	706,000 lbs	320 mt

SUBSTRUCTURE

Type	Bentec swing-up	
Height	40.5 ft	12 m
Casing load	706,000 lbs	320 mt
Setback Load	500,000 lbs	227 mt

DRAWWORKS

Type	Bentec E-350-AC-SG (Single Gear)	
Horsepower rating	1,500 HP	1,100 kW
Max. line pull	71,210 lbs	35.8 t
Drilling line diameter	1 3/8"	35mm
Auxiliary brake	Disc brake + (power braking via AC motors)	

TOP DRIVE

Type	Bentec TD-500-HT	
Capacity	1,000,000 lbs	454 t
Torque	46,500 ft.lbs	63,000 Nm

ROTARY TABLE (ASSISTING)

Type	LS-NOV ZP-375	
Table opening	37 1/2"	952.5 mm

DRIVE GROUP

Engine type	Cummins KTA50-DR1750	
Horsepower rating	3 x 1,750 HP @ 1,500 rpm	
Generator type	Leroy-Somer 4p8. 1-3000	
Generator rating	4 x 1,500 kVA @ 1,500 rpm	
Voltage	690 V, 50 Hz	
Control Unit	Bentec VFD	



MUD SYSTEM

Pump type	Bomco F-1600, 7"x12"	
Horsepower rating	2 x 1,600 HP	
Standpipe pressure	5,000 psi	350 bar
Active mud system	1,165 bbl	185 m ³
Reserve mud system	1,100 bbl	175 m ³
Shale shaker type	3x Mongoose PT	

BOP EQUIPMENT

Annular	13 5/8" – 5,000 psi
Single ram	13 5/8" – 5,000 psi; 2pc

CAMP EQUIPMENT

Full rig and base camp

ADDITIONAL EQUIPMENT

Anti-Collision System (Bentec ACS)
Soft Torque Rotary System (Bentec STRS)
Feed Off Control System (Bentec FOCS)
Air conditioned Driller Cabin with Bentec InfoDrill
Parallel operation between Grid- and self-generated powers is possible.

The rig was modified in 2016 from a single well rig to a cluster slider.