

NOVOS™ enabled

Rapid Rig Smaller. Faster. Safer.



NOV Rig
Technologies



High performance singles rig

The NOV Rapid Rig™ is an efficient “singles” land rig delivering maximum speed, safety, and performance in a compact, road-legal drilling package. Developed with a 250 ton hook-load capacity for shallow to moderate well depths, the Rapid Rig’s smaller size and self-deploying design allows for ease of transport and faster on-site rig-up. The rig design reduces crew size and accident exposure while providing a comfortable, efficient work environment. The Amphion drilling control system automates drill floor activity, giving the driller more control and awareness of the overall drilling operation. The Rapid Rig’s compact components and AC powered primary systems further reduce environmental impact at the well site.

Smaller. Faster. Safer.

- Highly effective “singles” rig utilizing range II or III drill pipe
- Innovative design allows for easy rig-up/down using a single forklift; no cranes or gin poles
- Simplified rig-up with minimized utility connections
- Extremely mobile rig with just 17 (highway-legal) transport loads and less tubulars
- Highly efficient rig with minimal crew required to operate
- Utilizes the Amphion™ drilling control system



Specialized link tilt system and hydraulic elevator

These two rig components reach out to lift pipe above floor.



Stabbing guide and ST 80R iron roughneck

This unit captures the tail end of pipe, followed by ST- 80R iron roughneck operation for pipe connection with maximum safety and efficiency.



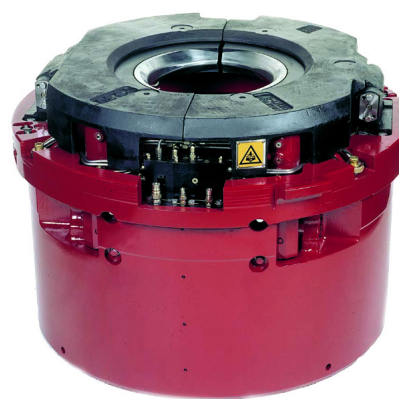
TDS-10SA AC powered top drive

Delivers industry-proven reliable drilling performance and remains mounted in mast with block for transport while keeping drill line reeved in place.



SSGD-250

Compact, responsive single speed gear driven AC drawworks with regenerative braking.



PS-21 hydraulically operated power slips

Eliminates manual operations at well center and operates on all drill pipe, collars, and casing sizes up to 14 in. OD.



Rapid Rig's HVAC control cabin and the Amphion drilling control system

Offer a comfortable, safe, and ergonomic operating environment with advanced auto drilling, monitoring, and systems management.



Modular Rapid Rig mud system

Engineered for optimal performance and highway transport without removing equipment, featuring dual, low profile shale shakers.

Unmatched service and support

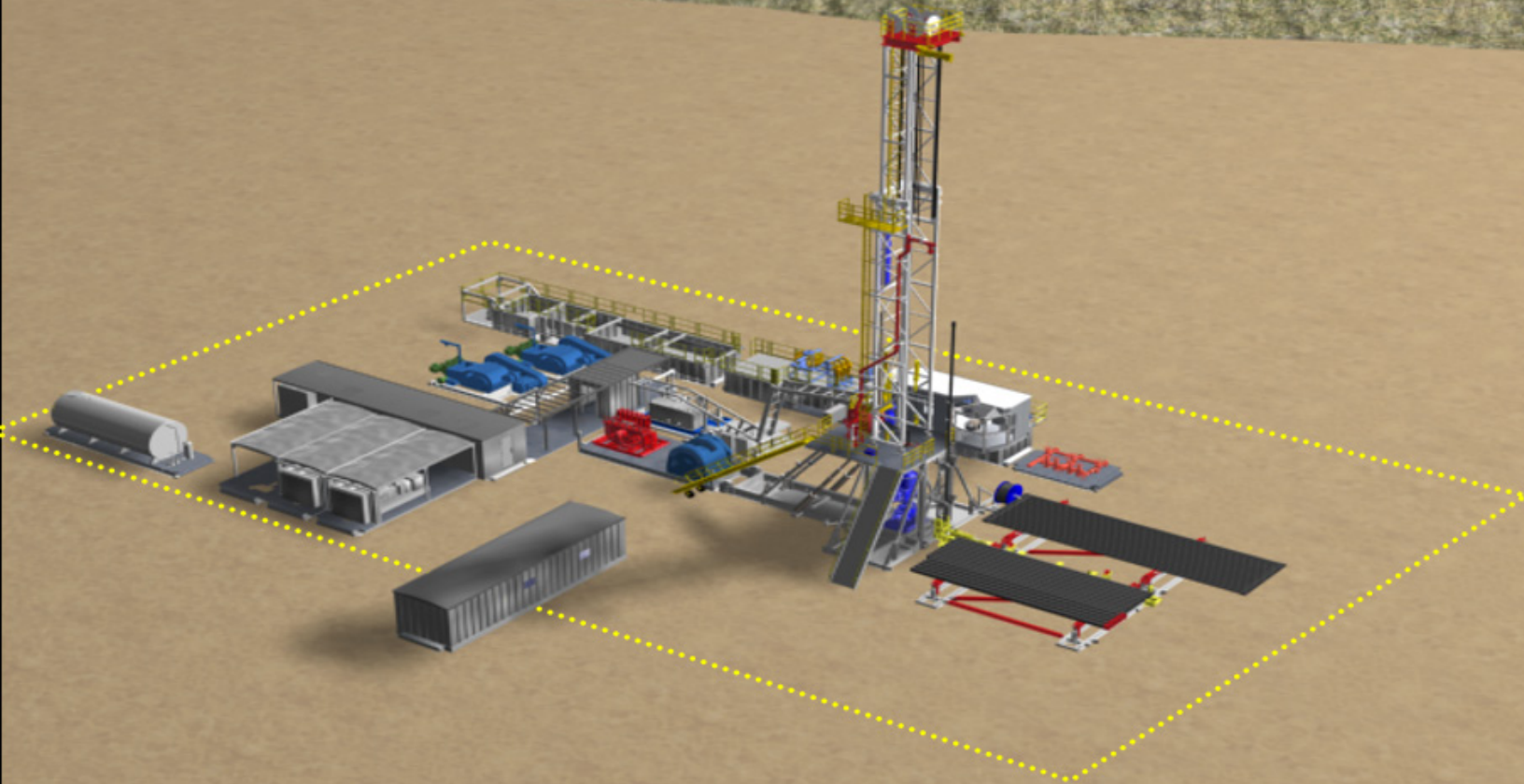
Wherever the versatile Rapid Rig allows you to operate, you are backed by our industry-leading, global network of service, support, and supply-chain centers. Greater versatility, lower operating costs, and maximized utilization.

- Minimized rig-up/down time
- Compact well site footprint
- Reduced environmental impact
- Smaller crew size
- Lower transport cost



LXT BOPs

Our line of BOPs are lightweight, compact, and feature easily serviced ram assemblies.



Compact drill site requirements

119 ft x 153 ft (36.3 m x 46.7 m). Rapid Rig's compact drill site layout is highly versatile and easily deployed, even in the most restrictive and environmentally sensitive locations.

Specifications	
Mast hook load rating:	500,000 lb (250 tons) with 8 lines strung
Mast height:	80 ft (when fully scoped for operation)
Base dimensions:	7 ft x 5 ft
Pipe slip/floor load rating:	500,000 lb (250 tons)
Drill floor height:	20 ft
Clear height under floor:	18 ft
Drill floor dimensions:	17 ft 3 in. x 23 ft
Nominal power, type:	1,500 hp, single speed, gear driven, single AC electric motor drive
Braking system:	Regenerative dynamic braking, disc parking/emergency brakes
Nominal torque, type:	350 hp, 20,000 ft-lb, single AC electric motor drive
Load capacity:	500,000 lb. (250 tons)
Tubular weight capacity:	6,000 lb
Drill pipe capacity:	Up to 5 in. range III
Drill collar capacity:	Up to 8 in. range II
Casing capacity:	Up to 13 $\frac{3}{8}$ in.
Control system	SDAQ display and controls, amphiion architecture, NOV auto driller, compatible for optional RigSense™

Specifications	
Mud system	620 bbl, two tank system with dual 3-panel linear motion shale shaker, atmospheric degasser, two cone desander
Mud pumps	Two (2) 1,000 hp triplex pumps, AC electric motor driven
Power generation	Two (2) 1,350 bhp, 1,800 rpm, 1,750 kva
Hydraulic power	Dual driven system 65 gpm diesel, 96 gpm electric
BOP:	11 in. 5,000 psi WP bolted spherical BOP,
Spool:	11 in. 5,000 psi WP double and 11 in. 5,000 psi WP single LXT
Koomey™ unit:	
Choke and kill manifold:	11 in. 5,000 psi WP drilling spool 6 station, (12) 11 gal. bottles 3 $\frac{1}{8}$ in. 5,000 psi wp
Tanks	Diesel fuel 190 bbl, water 400 bbl

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