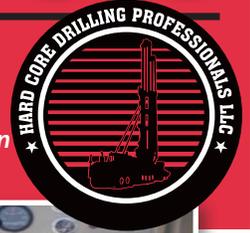


Speedstar 30K ARCH air/mud rotary combination rigs represent the most technologically advanced rigs available to the drilling industry. This drilling rig possess the unique capability to perform a wide range of drilling tasks with minimal reconfiguration including air rotary casing hammer, Mitsubishi underreaming, direct air rotary, mud rotary, dual tube reverse circulation, 94mm wireline coring, and down-hole hammer.

SPEEDSTAR30K

Relatively compact in size, this rig provides excellent accessibility, quick operational setup and efficient rig movement/decontamination. Superior features of this rig include: deck-mounted air compressors, mud pumps and injection pumps that decrease the site footprint and decrease move time between locations by eliminating the need for auxiliary and external air/mud circulation equipment.



“Safe from the Core”

Pulldown/Holdback

The pulldown / holdback system powers the tophead rotary in the pulldown mode and the holdback mode through the use of heavy-duty cables and a 6-1/2" hydraulic cylinder. Pulldown mode 25,000 lb. Holdback mode 30,000 lb.

Auxiliary Winch

The hydraulically driven auxiliary winch has a 4,000-lb capacity with a single line-pull on bare drum with 750-ft. of 3/8" wireline. The winch speed approximately 276 ft./min. at mid drum. The winch has a 2,000-lb. capacity with a single line pull on bare drum with 100-ft. of 3/8" wire line.

Jib Boom

Adjustable jib boom for winch cable is mounted on top of mast. Is has one (1) hydraulic cylinder for boom extension.

Winch on Mast

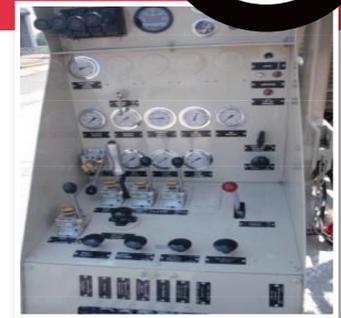
Hydrostatically driven winch mounted on the mast for tripping and pipe handling through the jib boom. Rated working capacity is 30,000 lbs.

Air Compressor

Sullair two-stage, twin-screw rotary compressor is rated at 1,000 CFM at a maximum pressure of up to 350 PSI.

Mud Pump

Mission Magnum 4x3 centrifugal pump with infinitely controlled speed is capable of producing 320 GPM at 150 PSI.



Tophead Rotary

Hydrostatically powered tophead rotary with an infinitely controlled rotation speed of 0 to 120 RPM and a maximum torque of 70,000 in.-lbs. Air/fluid course is 2-1/2 in. dia. Drill 7-7/8" to 12-1/4" hole up to 600' deep.

Casing Hammer Package

Weldco-Beales model 1321 casing driver for 7-5/8" to 16" casing. The driver weighs 4,100 lbs. and develops up to 7,600 ft.-lbs. of driving force. Can drive casing 200' to 300' deep. Six-inch flex coupling from casing hammer to cyclone hose installed with safety cables for safe discharge of cuttings. Has casing jacks for pulling back casing.

Lights

Shockproof 12-volt halogen lights for night drilling; powered by the truck electrical system.

Cyclone

Used to separate the drill cuttings from the circulating air, the cyclone is lined with hardened steel for abrasion. The cyclone is connected using bolted flanges with "D" rings welded to the fittings. Cables attached to the "D" rings safely secure the discharge hose leading from the casing hammer.

Water Injection Pump with Foam

A hydraulically powered water injection pump, equipped with variable speed control for output up to 18 GPM and 700 PSI. A needle control valve on the suction side enables foam to be metered into the system.

Average Dimensions and Weight

Length Mast Down • 35'-6"	Height Mast Down • 12'-6"
Width • 8'-6"	Length Mast Up • 32'-10"
Height Mast Up • 35'	Weight • 52,000 lbs.

H_C Drilling Professionals

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