INGERSOLL RAND TH75W

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POWERPACK DECK ENGINE

Cummins QSK-19C	600hp (447 kW) @ 1800 rpm
Exhaust	Silenced exhaust for reduced noise levels

AIR COMPRESSOR

Ingersoll-Rand HR2.5	1070 cfm (30.3m^3/min)
Pressure Range	120 to 350 psi (827 to 2413 kPa)
Operational RPM	1800

DERRICK

Construction	Welded cold finished rectangular steel tubing
Rated Capacity	100,000 lb(45,360 Kg)

TOP HEAD DRIVE

Type	Four 12.3 cu.in (201.6 cm3) hydraulic motor spur gear 2 speed
Torque/ Rotation	8000 ft-lb (10848 N-m) 0-105 rpm 6000 ft-lb (8136 N-m) 0-140 rpm

DRILL FEED SYSTEM

Pulldown (drill feed)	30,000 lb (13608 kg)
Pullback	70,000 lb (31752 kg)
Drill Feed Rate	27 ft/min (8.2m/min)
Fast Feed Rate Down	130 ft/min (39.6m/min)

DRILL PIPE HANDLING

A carousel mounted inside the derrick structure rotating hydraulically about a fixed axis

Patented, hydraulically operated, dual (top and bottom), retractable, drill pipe support arms. (The support arms are especially important when positioning drill pipe during angle drilling operations.

A rotary head that remotely retracts to the inside of the derrick in order to be positioned over the carousel for removal or loading of drill pipe.

WIRELINE

Drum Capacity	3280 ft (1000 m)
Line Speed	variable 0-150ft/min (0-45.7 m/min)
Line Pull	2,000lb (907 kg)

WATER INJECTION

Capacity	0-35 gpm (0-132 l/min)
Pressure	1000 psi (6900 kpa) maximum

DIMENSIONS AND WEIGHTS

Width	2.5m
Length (derrick down)	12.60m
Height (derrick down)	4.30m
Height (derrick up)	12.00m
Gross Weight (approx)	29030kg

MUD PUMP

Gardner Denver Piston Pump 5.5 x 8	222gpm (840lmp) 338 psi (2330kPa)

The TH75W is a multipurpose hydraulic tophead drive, truck mounted, deck engine powered drill, designed primarily for reverse circulation exploration applications using either rotary or downhole hammer drilling. This rig also has coring and conventional drilling capabilities.

The TH75W employs a “dump angle derrick” for angle exploration drilling. This “dump angle derrick” can be positioned at any angle between vertical and 45 degrees using the derrick raising cylinders. The derrick then slides downward until the base rests firmly on the ground surface. Automatic pinning secures the derrick once the angle is set. Drilling controls are positioned on the derricks so that the operator is always close to the hole.