

VERSA-DRILL® V-2000NG

In a Class of its Own

"All New"
Australian Safety
& Road Compliant



Rig shown with some options

New Options:

Reverse
Circulation
Package

500 RPM,
750 RPM &
1,000 RPM
Top Head With
Wireline Package



VERSA-DRILL®

Leading the industry
with innovative,
state-of-the-art drilling rigs.

V-2000NG SPECIFICATIONS

BASE MACHINE

Mounting

Custom 2 man carrier with center man drive, 6x6 (all wheel drive), CAT C-18 (630HP)

Power Distribution

Drill/truck single-power source with exclusive Versa-Drill power distribution gearbox/pump drive, provides direct coupled thru-drive to power rig hydraulics and Ingersoll-Rand screw air compressor

Hydraulics

Rotation is a closed loop circuit powered by a variable displacement piston pump

Feed, winch, auxiliary and set-up functions are powered by 4 axial piston load sense pumps

250-gallon reservoir with 10 micron in-tank return filter and 10 micron pressure filters for closed-loop pumps

Air Compressors

900 CFM/350 PSI self-contained module
1070 CFM/350 PSI self-contained module
1250 CFM/350 PSI self-contained module

All compressor modules are direct driven with drive shaft from power distribution box accompanied by hydraulic chassis clutch control (controlled at drill console)

Derrick

12" x 28" tubular derrick construction
35' 6" overall length
26' head travel
(No derrick crown load)

Feed System (patented)

Direct coupled, cylinder driven

Pullback 80,000 lb.

Pulldown 34,000 lb.

Travel Speed Up 0 to 180'/min.

Down 0 to 230'/min.

Top Head Rotation

Standard high performance 3-speed/torque planetary, spur gear top head

High Torque 8,100 ft.-lb. @ 132 RPM

Mid Torque 6,200 ft.-lb. @ 173 RPM

Low Torque 4,280 ft.-lb. @ 250 RPM

Main Winch & Jib Boom

12,000 lb. (standard) hydraulic powered main winch, includes hydraulic jib boom with 180° radius swing and 40" extension

18,000 lb. main winch (optional)

Rope Capacity 220' of 5/8" rotation resistant cable

Lift Capacity 12,000 lb. single line (bare drum),

18,000 lb. (optional)

Speed 104'/min. (bare drum)

Control Panel

User friendly electro/hydraulic controls with functionally grouped gauges and twin fold-up aluminum platforms

Leveling Jacks

2 mid-mounted 48" stroke jacks (behind cab) and 2 rear-mounted 36" stroke leveling jacks with independent controls

Centralizer

Retractable hydraulic split centralizer table including hydraulic breakout wrench and air operated holding wrench. Table opening will accommodate up to 20" casing



Versa-Drill's (patented) automated drill rod handling system; stores, handles and positions 500' of on-board drill rod.



Operator-friendly control panel and hydraulic retractable split centralizer table.

Automated Drill Rod Storage & Handling System (patented)

Automated drill rod storage and control system stores and positions 25 pieces (500') of 4 1/2" x 20' drill rod or 31 pieces (620') of 3 1/2" x 20' drill rod

DIMENSIONS

Overall Length

35' 6"

Overall Height

Derrick up – 42'
Derrick up w/tophead at full stroke – 61' 6"
Derrick down – 12' 4"

Overall Width

102"

OPTIONS

Catwalk

18" Aluminum catwalk available on driller and helper side of drill rig.
Optional handrails

Casing Stinger Assembly

Provides the ability to handle a maximum 40,000 lbs. of Range III casing

Auxiliary Hoists

Up to 8,000 lb. auxiliary hydraulic winch with swing jib and optional freefall

DHD Lubricator

7-gallon capacity (electric)

Water Injection

a. *FMC Bean pump w/25 GPM capacity
b. *CAT w/25 GPM capacity
c. Bean pump w/75 GPM capacity
*Optional foam pulse pump (available)

Mud Pumps*

Mission 3x4 centrifugal w/mechanical seal (300 GPM/230 PSI)
*Rig or skid-mounted

Night Lighting System

9 halogen lights functionally mounted on drill rig

Reverse Circulation Package

500 RPM Top Head with Wire Line Winch Package:

500 RPM with 1938 ft-lbs (high speed)
360 RPM with 3158 ft-lbs (mid speed)
221 RPM with 4378.8 ft-lbs (low speed)

750 RPM 2 SPEED Top Head with Wire Line Winch Package:

750 RPM @ 1,300 ft. lbs.
125 RPM @ 8,000 ft. lbs.

2 Speed Top Head

1,000 RPM @ 969 ft. lbs. of Torque
122 RPM @ 8,000 ft. lbs. of Torque

Hammer Holder(s)*

- a. 6" Hammer holder
 - b. 8" Hammer holder
 - c. 10" Hammer holder
 - d. 12" Hammer holder
- *Any combination of, no more than 3

Stabilizer Chute

Up to 9" x 15' stabilizer chute mounted on rig

Secondary Rod Loader For Beyond 500'

20" Table Opening

Tilt Top Head

TRUCK SPECIFICATIONS

Model

Custom 2 man carrier with center man drive, 6x6 (all wheel drive)

Wheelbase

208"

GVWR

69,000 lb.

Front Axle Suspension

Axle Rating 23,000 lb.
Suspension 23,000 lb. leaf

Rear Axle Suspension

Axle Rating 46,000 lb. tandems
Suspension 46,000 lb. spring-mounted walking beam
*Driver controlled locking axles

Engine

CAT C-18 (630 HP)

Transmission

Manual, 10-speed

Frame

12 5/8" x 3/8" x 3 1/4"
11 7/8" x 5/16" x 2 7/8" C-channel

Brakes

Air brake system with anti-lock brakes

Clutch

Eaton self-adjusting clutch

Fuel Tank Capacity

225 gallons (total)

Other Specifications

Alcoa aluminum wheels
Aluminum fuel tanks
Brushed aluminum mirrors
Power steering
Power brakes
Jacobs engine brake
AM/FM radio w/CD player
Air conditioning
Diesel fired engine heater
Water preheater

VERSA-DRILL® V-2000NG

Design Features

Low Profile Carrier

6x6 (all wheel drive), short wheelbase (208"), deluxe aluminum center mount one-man cab, aluminum wheels and fuel tanks (250 gallon fuel capacity).

Feed System (patented)

Powerful direct coupled, hydraulic cylinder driven feed system. Eliminates use of chains, cables, sprockets and sheaves (80,000 lb. pullback/34,000 lb. pulldown).

Drill Rod Storage and Control System (patented)

Totally automated handling, positioning and storage of all drill rod, on board.

Drill/Truck Diesel Power

Single power source with exclusive Versa-Drill power distribution gear box/pump drive, provides direct coupled thru-drive to power rig hydraulics and air compressor.

Air Compressors

Ingersoll-Rand self-contained modules (900/350, 1070/350 or 1250/350), environmentally protected, 145° ambient cooling, lower noise levels.

Casing Handling

Retractable split centralizer table, sliding off hole top-head and swing jib that centers directly over the hole, providing easier handling of up to 20" diameter casing.



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