

# VERSA-DRILL<sup>®</sup> V-2000NG

In a Class of its Own



Rig shown with some options



**VERSA-DRILL<sup>®</sup>**

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

# V-2000NG SPECIFICATIONS

## BASE MACHINE

### Mounting

HME custom carrier 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

105-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



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.

## Centralizer

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

## 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

# 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

## 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  
\*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

## 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

# TRUCK SPECIFICATIONS

## Model

HME custom carrier 6x6 (All wheel drive)

## Wheelbase

207"

## 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

250 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 (207"), 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.



### LAIBE CORPORATION

1414 Bates Street • Indianapolis, IN 46201 U.S.A.  
Telephone: (317) 231-2250 • Fax: (317) 266-8426  
Toll Free (800) 942-3388 • [www.laibecorp.com](http://www.laibecorp.com)

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