Drilling Module Incl.

Mud System With

Incl. Quarters

Full Power Module

No Quarters

V Rig Overview

A primary objective in developing the V Rig concept was to look at ways to increase rig versatility without increasing rig weight & cost. One approach was to allow for the "Pin

On" addition or swap out of rig components as needed for a specific job. This allows additional features to be built only when needed, and they can be left onshore when not needed. Also, by optimizing the design the weight penalty for this type of rig vs. a modular type is minimized, amounting to less than 5-10% of structural. This provides the option to use this type of rig for any platform application.

Lift Options

V Rig is designed for Dynamic (SPAR / TLP) or Static (Fixed Platform) applications. The connections between min. Lift packages, when designed for the Dynamic applications, generally give the inherent strength to lift the assembled rig in larger modules. The Lower Drilling Module (LDM) and the Upper Drilling Module (UDM) need only the addition of global lift padeyes & local reinforcing to be installed as a two module lift.

Platform Applications Options

V Rig may be designed for any platform rig application; for jobs requiring installation with rig / platform cranes but also for standard API Modular Rig applications including SPARS & TLPs. The drawing package includes an option for a large Drill Floor with dual function Mast / Derrick & automated pipe handling system.

Fabrication Options

The package break up required for a minimum lift weight rig provides additional flexibility during fabrication in that multiple fabricators may be involved, thus potentially reducing costs & schedule.

Assembly Options

Attempts were made to standardize dimensions & connections so that components will fit in more than one configuration. For example, at the LDM there are column rows at 30'-0" centers in both the North / South & the East / West directions. This allows packages such as the mud process pkg, additional mud tanks, mud logger deck or a 3rd HP mud pump deck to be hung off any face of the LDM. It also allows the LDM to fit on a Skid base, with 30 ft beam centers, in any orientation. Further, the UDM will fit on the LDM in any orientation. The design also allows the active mud system to be placed either in the LDM or in a separate Mud Module.

Drilling Module With Separate Mud Module & **Full Power Module Incl.**

With Pipe Rack Panels Removed

www.JatecEngineers.com

Drilling Module with Separate Mud Module & Partial Power Module, No Quarters

Visit Our Web Site At:

Module Lift Options

Contacts & Location

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JATEC Engineers & Designers Info@JatecEngineers.com



JATEC V RIG SERIES PUB. BROC-01-04 Enhanced Rig Versatility Features That Are Added As Needed Reduced Weight & Simplified **Construction Details** Decreased Assembly Time & **Multiple Lift Configuration** Options Including Full **Installation Using Rig Cranes** RIG V-1000 D On A SPAR **PLATFORM**

Power Module

Power Module Provides Four Configuration Options Depending Upon Requirements For Power, Crew Accommodation, Rig Cranes & Platform Supports.

Optional Mud Module Provides A Full Mud System Or Additional Reserve Mud, Additional Pipe Storage For Drilling Risers Or Other Tubulars And/Or A 2nd Rig Crane, As Needed.

Mud Module

Multiple Configurations Are Provided To Accommodate 40.0 Ft To 65.0 Ft Capping Beam Centers: Any Orientation Of V Door & All Or Part Of The Mud System.

Drilling Module

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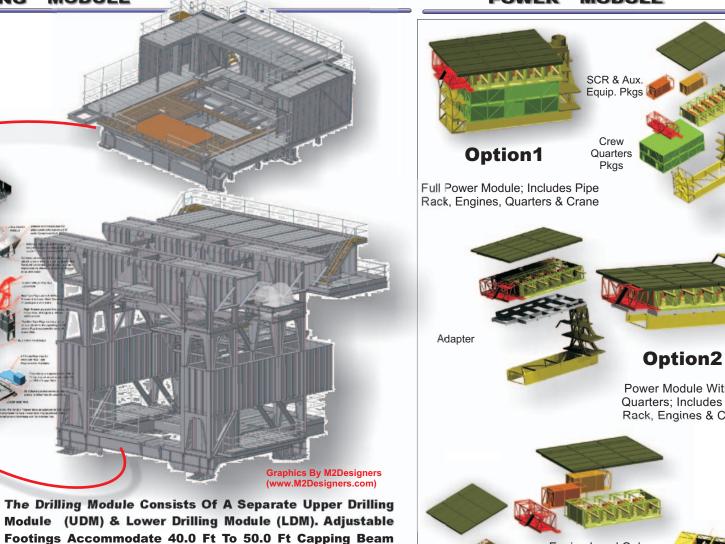
Quarters

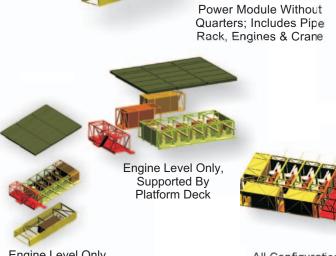
Patents Pending On Some Rig Concepts & Component Details

5 Engine Pkg Option

Tower &

Base Pkgs





Engine Level Only, Supported By Crane Beams. No Crane

All Configurations Available With 4 Or 5 Engines As Required

Other Configuration Options

The Power Module Provides Crew Accommodations, Engines, Pipe Rack Area & A Rig Crane, As Needed. **Several Configuration Options Are Available, The Two Basic Configurations Are Shown Here.**

Power Module Capacity Table

ITEM	V Rig Models										
	V-750D		V-1000D		V-1250D		V-1500D				
<u>Live Load Capacity</u>											
·											
Pipe Rack, Static Conditions	825,0		1,100,0		1,375.0		1650.0				
•											
Pipe Rack, TLP Conditions	750.0		1,000.0		1,250,0		1,500,0				
Pipe Rack, SPAR Conditions	600,0		800.0		1,000,0		1,200,0				



Mud Mix House

Mud Tanks

Option1

2,000+ Bbl Mud System With 2 H.P. Pumps, With Crane





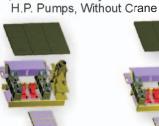


Option2

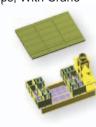
2,000+ Bbl Mud System With 3

2,000+ Bbl Mud System With 3 H.P. Pumps, With Crane

Option 3







1,000 Bbl Mud System With 2 H.P. Pumps, With

1,000 Bbl Mud System With 3 H.P. Pumps, With

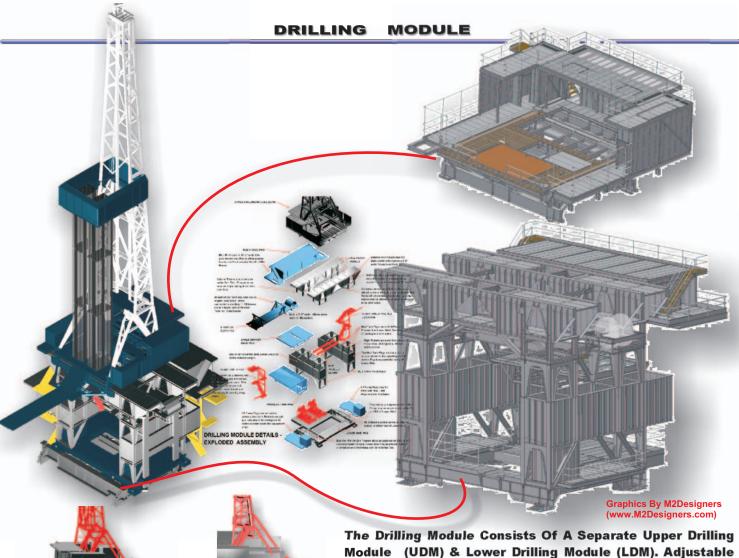
1.000 To 2.000+ Bbl Reserve

Other Configuration Options

The Mud Module Is Optional; Providing Additional Pipe Rack Area, A 2nd Rig Crane Or Extra Mud Capacity, As Needed. In Some Applications The Active Mud System May Be Provided In This Module Rather Than At The DM.

MUD Module Capacity Table

[TEM V Rig Models											
ITEM											
	V-750D		V-1000D		V-1250D		V-1500D				
<u>Live Load Capacity</u> (Kips Or B bls.)											
Pipe Rack, Static Conditions	825.0		1,100.0		1,375.0		1650.0				
Pipe Rack, TLP Conditions	750.0		1,000.0		1,250.0		1,500.0				
Pipe Rack, SPAR Conditions	600.0		800.0		1,000.0		1,200.0				
Liquid Mud Capacity, All Conds.	1,000.0		1,000.0		1,000.0		1,000.0				
	To 2,500.0		To 2,500.0	T-	o 2,500.0		To 2,500.0				



Setback (Kips)

H.P. Mud Pumps

Lower Skid Extende

Tubular Catwalk

Mud (Bbls)

Centers. A Skid Base Is Added For Centers Greater Than 50.0

Ft. The UDM May Be Rotated On The LDM To Achieve Any V

Door Orientation. All Or Part Of The Active & Reserve Mud

Drilling Module Capacity Table

1,000.0

700.0

900.0

System May Be Accommodated In The DM.

750.0

500.0

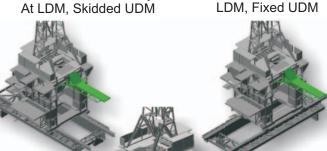
700.0

Option 2

Process Mud Only At

Option 1

1,000 To 1,250 Bbl Mud System



Drilling Module Orientation Options

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1,500.0

1,000.0

1,300.0

1,250.0

850.0

1,100.0