

## NAGA 3

NAGA 3 is a three legged 350 ft independent leg cantilever drilling jack-up rig, designed by GustoMSC and built by Drydocks World SE Asia, Batam Indonesia under license. Built to the standard of IMO MODU Code 1989 with 1991, 1994 amendments and consolidated version 2001 and complies with the 1974, 1978 and 1988 Protocol including Amendments up until consolidated version 2001.

NAGA 3 is a high standard unit, with large VDL (3500MT Drilling VDL), bigger deck space, 120 POB, capable to drill at 350 ft water depth and deep drilling of 30,000 ft depth.

The GustoMSC patented X-Y cantilever design is unique and allows the rotary table to be skidded out to a maximum of 70 ft and 20 ft from the centre line.

The X-Y cantilever enhances drilling efficiency and reduces the weight of the cantilever, thus increasing the unit's capacity. With the X-Y system, the load charts of the cantilever allow for maximum combined loads (1,500 kips) over the full envelop, improving development drilling over fixed platforms.

### **VELESTO DRILLING SDN BHD (623288-D)**

(formerly known as UMW OFFSHORE DRILLING SDN BHD)

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GENERAL	
Name	NAGA 3
Design	GustoMSC-CJ46-X100D
Delivery	September 2010
Construction Yard	PT. DryDocks World Graha, Batam, Indonesia
Jack Up Type	Independent Leg Jack Up Drilling Rig
Flag	Singapore
Classification	DNV
Class Notations	A1 Self-Elevating Drilling Unit

MAIN DIMENSIONS / TECHNICAL	
Length and Breadth	214.07 ft x 203.41 ft
Depth	26.24 ft
Draft	16.4 ft
Leg Length	483.5 ft
Leg Length(under hull)	421 ft
Leg Spacing	Transverse : 150.9ft Longitudinal : 131.2ft
Spud Can Diameter	45 ft
Bearing Pressure	10.23 kips/ft <sup>2</sup>
Design Water Depth	350 ft
Minimum Water Depth	22 ft*Subject to SSA
Drilling Depth	30,000 ft
Variable Load	Afloat: 5,511 kips Elevated : 7,716 kips
Drilling Envelope	70 ft x 40 ft
Helideck	Capacity : 12.8 MT
Helideck Compliance	CAP437
Refueling System	2 x Wilmax 740 gallon
Accommodation	120 POB

DRILLING EQUIPMENT	
Derrick	NOV SSBN 750 35 ft x 35 ft x 160 ft
Hookload	1,500 kips
Drawworks	NOV D 3000 AC
Top drive	NOV TDS-8SA Rated Capacity : 680 MT
Racking Capacity	30,000 ft
Pipe Handling	NOV Bridge Racker BR6-SD
Iron Roughneck	NOV AR3200
Rotary Table	NOV D495-7K, 49 <sup>1</sup> / <sub>2</sub> "
Driller's Instrumentation	NOV Cyberbase System

TUBULARS	
Drill Pipe	5 <sup>1</sup> / <sub>2</sub> " S-135 (21.9 ppf) 3 <sup>1</sup> / <sub>2</sub> " S-135 (15.5 ppf)

WELL CONTROL	
BOP	18 <sup>3</sup> / <sub>4</sub> " - NOV SHAFFER SLX 15,000 psi WP
BOP Annular	18 <sup>3</sup> / <sub>4</sub> " NOV SBOP BIG BOY 10,000 psi WP
Diverter	Vetco Gray KFDJ-500
Choke & Kill Manifold	3 <sup>1</sup> / <sub>16</sub> " ID 15,000psi
BOP Hoist	Ingersoll Rand Lifting Capacity : 150 MT
Conductor Tensioner	NOV 227 MT

LIFTING EQUIPMENT	
Deck Crane	3 x FavelleFavco 7.5/10k
Location	1 x Port Aft, 1 x Port Forward, 1 x Starboard
Main Hoist Capacity	Up to 50.0 T at 12.0 m Up to 10 T at 41.4 m
Fly Hoist Capacity	Up to 5 T at all radii

POWER PLANT	
Main Engines	5 x Caterpillar 3516B-HD, 2,150 hp
Main Generators	5 x KATO @ 1,720 ekW
Emergency Engine	Caterpillar 3516B-HD DITA
Emergency Generator	KATO @1,450ekW

MUD SYSTEM	
Mud Pumps	3 x NOV 14-P-220 , 2,200hp Triplex Type, 7,500 WP
Shale Shakers	5 x NOV VSM 300
Desander	1 x NOV Brandt Integrated with VSM 300
Desilter	1 x NOV Brandt Integrated with VSM 300
Degasser	NOV DG-12
Mud/Gas Separator	RB Pipetech, 150 Psi WP, 12" ID

STORAGE CAPACITIES	
Fuel	4,446bbl
Potable Water	2,704 bbl
Liquid Mud	4,365bbl
Brine	1,264bbl
Barite/Bentonite Silos	1,412 ft <sup>3</sup>
Cement Silos	7,486 ft <sup>3</sup>
Sack Storage	5,000 sacks
Base Oil	1,264 bbl
Preload (Independent)	51,079bbl
Drill/Preload Water Tank	20,838bbl (interchangeable drill water/preload tank)

**NOTE:** Specifications, dimension and capacities are indicative and subject to change without notice