

NAGA 3

NAGA 3 is a three-legged 350 ft independent leg cantilever drilling rig designed by GustoMSC and built by Drydocks World SE Asia, Batam Indonesia under license. Built to the standards 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.

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GENERAL	
Name	VELESTO NAGA 3
Design	GustoMSC-CJ46-X100D
Delivery	September 10
Construction Yard	PT. Drydocks World Graha, Batam, Indonesia
Jack Up Type	Independent Leg Jack Up Drilling Rig
Flag	Singapore
Classification	ABS
Class Notations	A1 Self-Elevating Drilling Unit
Accommodation	150 POB

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	10.23kips/ft2
Design Water Depth	350 ft
Minimum Water Depth	22 ft <i>*Subject to site specific</i>
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	CAP 437
Refueling System	2 x Wilmax 750 gallon
Accommodation	150 POB

DRILLING EQUIPMENT	
Derrick	NOV SSBN 750 35ft x 35 ft x 160 ft
Hookload	1,500 kips
Drawworks	NOV D 3000 AC 3000 HP
Top Drive	NOV TDS-8SA Rated Capacity: 680 MT
Racking Capacity	30,000 ft
Pipe Handling	NOV Bridge Raker BR10-SD (Vertical Column Racker)
Iron Roughneck	Primary: NOV AR-3200
Rotary Table	NOV RST D495, 49-1/2"
Hydraulic Cathead	20x NOV HC-26EV
Driller's Instrumentation	NOV Cyberbase System

TUBULARS	
Drill Pipe	5-1/2" S-135 FH DSTJ (21.9 ppf) 4" DSTJ ST-39 (14 ppf)

WELL CONTROL	
BOP	18-3/4" NOV NXT-M 15,000 psi WP
BOP Annular	18-3/4" Shaffer SBOP (Wedge Lock Type) 10,000 psi WP
Diverter	Vetco Gray KFDJ-500 49-1/2"
Choke & Kill Manifold	3-1/16" ID 15,000 psi
BOP Hoist	Ingersoll Rand Lifting Capacity: 140 MT
Conductor Tensioner	Nov 225 MT, Max 30" Casing
BOP Top Tensioner Unit	ICON P100A 210bar

LIFTING EQUIPMENT	
Deck Crane	3x Favelle Favco 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 9.2 T at 41.4 m
Fly Hoist Capacity	Up to 10.0 T at 42.1 m Up to 9.4 T at 43.3 m
Bridge Racker	NOV BR10-SD (Vertical Column Racker)

MUD SYSTEM	
Mud Pumps	3 x NOV 14-P-220, 2,200 hp Triplex Type, 7,500 psi Working Pressure
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	2 x NOV Brandt DG-10
Mud/Gas Separator	RB Pipetech, 150 psi WP, 12" ID

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

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

SURVIVAL EQUIPMENT	
Lifeboat Quantity	5
Lifeboat Capacity	4 x 50 pax and 1 x 120 pax (total 320 pax)
Liferaft Quantity	6

MOORING EQUIPMENT	
Mooring Winches	4 x Rolls Royce MW 350/38E single drum, 38mm Wire rope, 43.8 Tons stall pull, 104 tons band break
Anchor Lines	6 x 36 IWRC Galvanized Rop , 2300 ft
Anchor	4 x Delta 3.5 MT

SURVIVAL EQUIPMENT	
Lifeboat Quantity	5
Lifeboat Capacity	4 x 50 pax and 1 x 120 pax (total 320 pax)
Liferaft Quantity	6

MOORING EQUIPMENT	
Mooring Winches	4 x Rolls Royce MW 350/38E single drum, 38mm Wire rope, 43.8 Tons stall pull, 104 tons band break
Anchor Lines	6 x 36 IWRC Galvanized Rope, 2300 ft
Anchor	4 x Delta 3.5 MT

JACKING SYSTEM	
No. of Jack or Pinions	Gusto MSC 6 pinions per chord, 3 x chords per leg,
Max. Jacking Load	15692 kips per leg
Fixation Available	YES
RPD Monitoring	YES

SPECIAL FEATURES AND OTHER INFORMATION	
Skidding	X-Y Skidding System
Field Transit	Capable to rig move with 300 kips of setback in the derrick

OFFLINE SYSTEM	
Ability to make-up and break-out drill pipe offline	
Ability to perform offline Centrifuge	

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