

HIMS 12: OFFSHORE WELL STIMULATION



HIMS12 Vessel is a PSV vessel that was converted to a Simulation Vessel custom designed to match the requirements of ADNOC offshore Type B Stimulation Vessel. At AlMansoori, years of Marine, Stimulation and Engineering have been vested to come up with an integrated solution for Stimulation and Pumping services. This vessel is ideal for the purpose of Type B requirement as it can be modified to fit the acid storage tanks below deck as per the CAD drawings presented within this brochure. Upon completion of conversion, this vessel is able to hold up to 200k USG of Raw HCL.

HIMS12 offers 10,500 HHP of hydraulic horsepower for 10,000 psi treatment pressure with the highest level of flexibility and rapid response to weather changes. Total 200,000-gal storage capacity of raw HCl under deck.

- Up to 50 Barrel per minute continuous fly mixing and pumping;
- 10 x 1,500 gal precisely metered Chemical tanks with precision dosage pumps;
- On the fly Acid blender;
- 10 k psi 4" X 200 ft flexible HP hose.

All treatments are controlled and monitored remotely using a state-of-the-art control room ensuring proper quality control of the treatment pumped. Thanks to onboard treatment design capabilities, operation sequences and volumes alteration based on formation response are made possible allowing real-time treatment optimization.



APPLICATIONS

- High-rate, High-pressure pumping
- Fracturing, Acidizing
- Scale Inhibition Treatments
- Remote Offshore Operations

BENEFITS

- Rapid deployment and rig up
- Heavy Duty Equipment
- High Storage Capacity
- On the Fly Mixing
- Real-time data Transmission

FEATURES

- Fully Automated mixing facility
- 10,500 HHP pumping capacity
- 10,000 psi 4" X 200 ft. Flexible Hose
- 3" 1502 Weco lines x 3
- 4" Emergency Disconnect
- 15k Wellhead Isolation Tool

MARINE SPECIFICATIONS

Length	84.45 m
Breadth	17.0 m
Draft	6 m
Length between p.p.	76.20 m
Depth Main Deck	7.30 m
Deadweight	Approx. 3800 t

MACHINERY & EQUIPMENT

Main engine	2 x RRM Bergen C25:33 L9 - 2880 kW each
Bow thrusters	2 x RRM Kamewa Ulstein TT 1850 DPN CP 760 kW each
Shaft Generators	2 x (Approx. 2400 kvA) - 440 V/60 Hz each (1800 RPM)
Main Gears	2 x RRM Propulsion Gearbox - 750 AGHC - KP50H PTO:1920kW
Main Propellers	2 x Rolls - Royce (Propeller dia. 2900 mm)
Aux. Engines/Alternators	2 x Scania DI 12 64 m 398 kW each 2 x Alternators - 440 V/60 Hz - 378 kW each

THRUSTERS

Bow Thrusters	2 x RRM Kamewa Ulstein TT 1850 DPN CP 760 kW each
Aft Thrusters	2 x RRM Kamewa Ulstein TT 1650 DPN CP 590 kW each

DIFF. EQUIPMENT

Tugger Winches	2 x RRM Brattvaag – 10t each
Steering Gears	2 x RRM Brattvaag El./Hydr.
FI-FI Monitors	2 x 1200m ³ /h each

FLUID STORAGE CAPACITIES

Fuel oil	1,100 m ³
Fresh water	820 m ³
Water ballast	1,500 m ³
Below deck acid storage	200,000 USG

STIMULATION EQUIPMENT ON DECK

high pressure pumping units	5 x 2,000 HHP
high pressure pumping units	1 x 600 HHP
Skid Mounted Acid Blender unit	62 bbl/min
chemi. storage & supply system 10 tanks x 1500 usg	15,000 USG
Twin pod filter unit	500 GPM
system control cabin	Auto Control System & Data Acquisition System (DAS)
hydraulic quick disconnect coupling	4" & 3", 10,000 PSI
high pressure marine hose	4" & 3" ID FIG 1502 - 10,000 PSI WP - 200 FT LONG
high pressure nitrogen pumping unit	180,000 SCFH
liquid nitrogen storage tanks	UP TO 12,000 USG LIQUID N2

