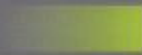
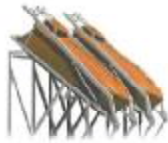


# The Nexus FPSO



[www.nexusfp.no](http://www.nexusfp.no) NEXUS FLOATING PRODUCTION

 NEXUS



Highest level of life saving equipment



Two independent propulsion systems, two thrusters and Becker rudders

## Hull and Marine Systems

Design:	—————	Samsung Heavy Industries
Storage capacity:	—————	950 000 bbls
Cargo pumps:	—————	3 cargo pumps in aft pump room (4000 m3/h each)
Main dimensions:	—————	LBP/B/D/Td – 258/46/26,6/18,2
Propulsion:	—————	2 main diesel engines, 7960 BHP each, 2 independent controllable pitch propellers
Thrusters:	—————	2 aft tunnel thrusters, each performing 1MW
Class notation:	—————	DNV + IAI Ship-shaped production and storage unit POSMOCR, CRANE, HELDK, ECO, PROD(N)
Hull form:	—————	Ship shaped, double sides/double bottom, green-water protection, large freeboard
Topside operational capacities:	—————	10 000 MT (modularized, supports for future modules included)
Accommodation:	—————	80 persons
Offloading:	—————	Stern Discharge System - capacity of 8000 m3/h

## Topside Process Facilities

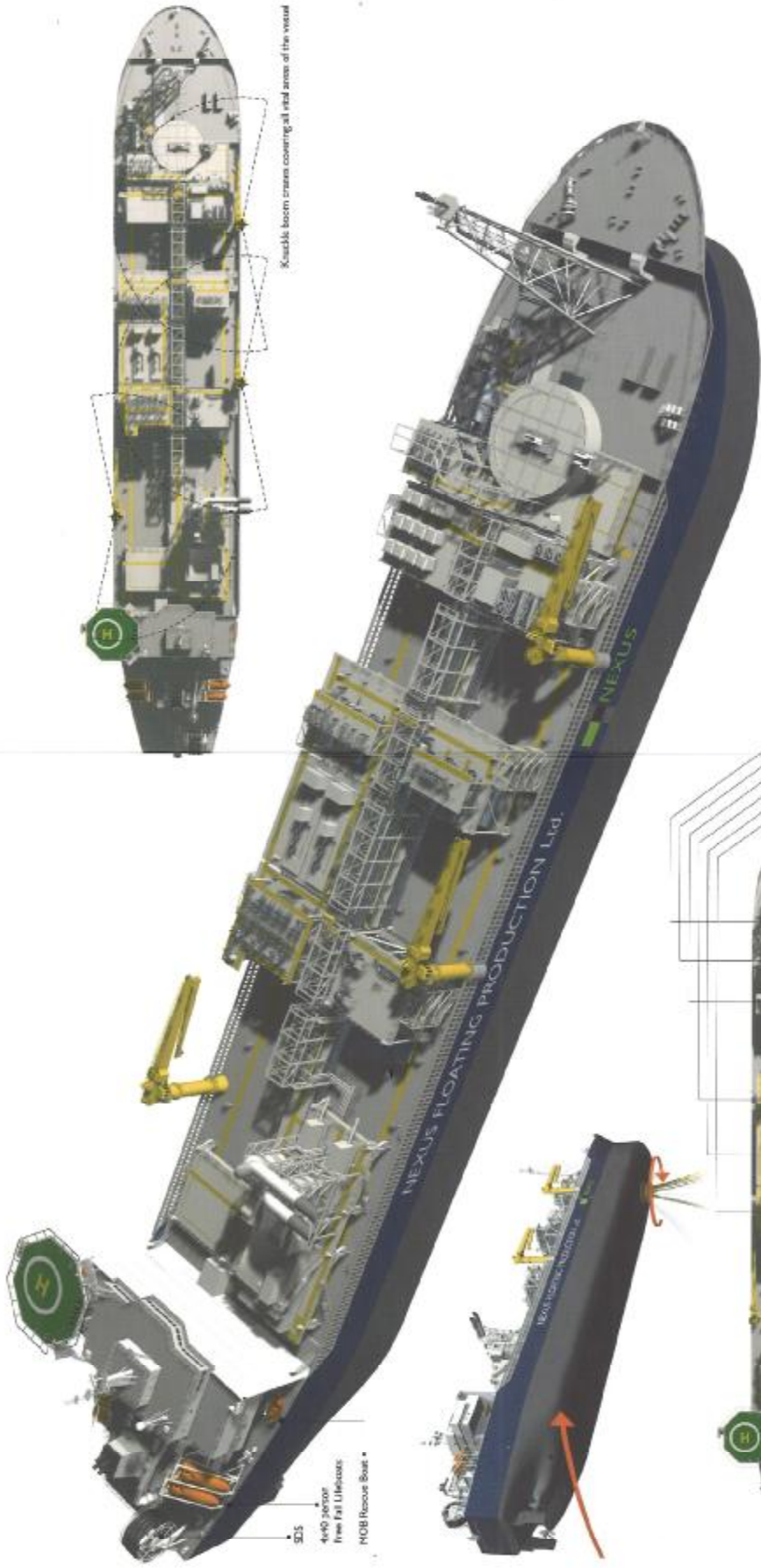
Design:	—————	Rambøll Oil & Gas
Topside weight:	—————	5 900 MT
Maximum liquids:	—————	80 000 bbls/d (+ 30 000 bbls/d test)
Maximum oil:	—————	80 000 bbls/d
Maximum water:	—————	60 000 bbls/d
Maximum gas:	—————	1.5 MMSCM/d
Power Generation:	—————	2x1.5MW dual fuel generators (space available for extra units)
Additional:	—————	VOC recovery, flare knock-out system, glycol system, fuel gas system
Material handling:	—————	3 off knuckle boom cranes, lifting capacity 15 MT at r=45 m
Maximum weight:	—————	> 10 000 MT
Maximum liquids:	—————	> 160 000 bbls/d
Maximum water:	—————	> 120 000 bbls/d
		Space available for additional gas treatment, heavy oil, water injection, gas to liquids, etc.
Layout:	—————	Available deck space and modularized topsides design for easy expansion/adaption - Good area division for safe operation - Central piperack prepared for future expansion - Modular layout prepared for possible increases in capacity

APL STP system for easy disconnection and reconnection



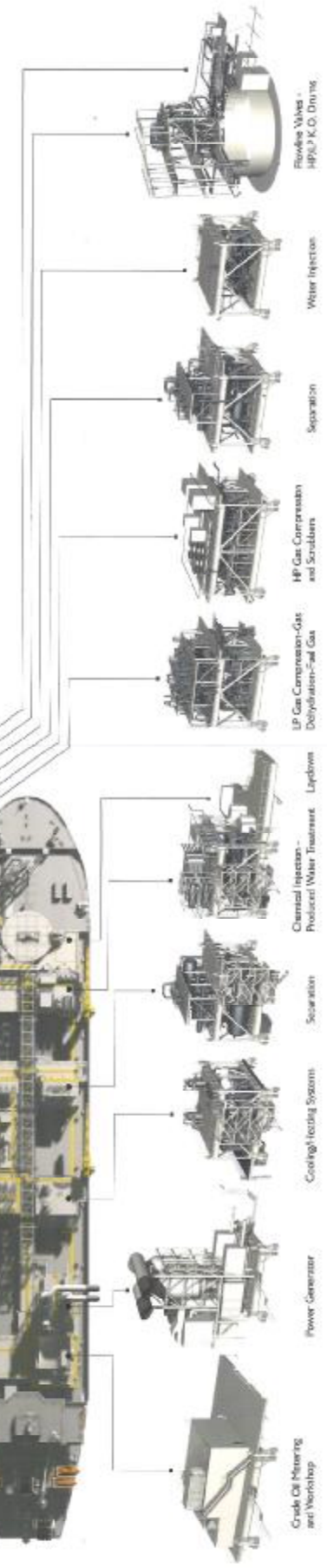
## Turret Mooring System

Design:	—————	Advanced Production and Loading (APL)
Risers capacity:	—————	Turret accommodates 15 - 20 risers and umbilicals
Buoy locking:	—————	Easy disconnect/reconnect turret features
Mooring System:	—————	Mooring system design carried out for harsh weather conditions and a wide range of water depths (from 30 m to 2500 m)



Kawasaki boom cranes covering all vital areas of the vessel

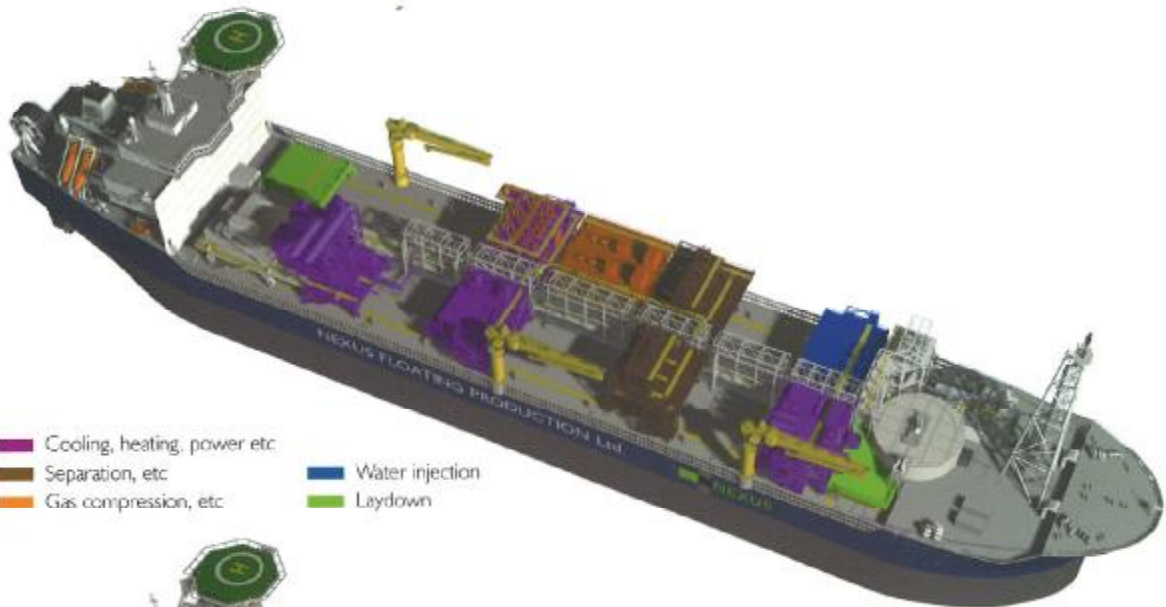
- SDS
- 4x40 2000hp Free Fall Lifters
- HOB Rescue Boat



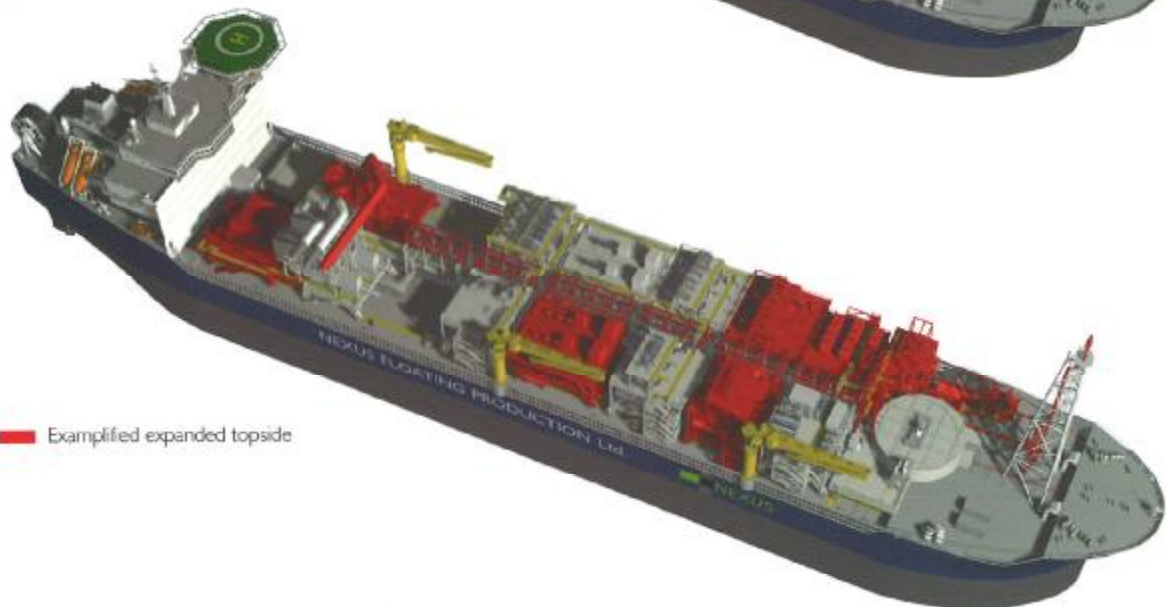
- Crude Oil Metering and Workshop
- Power Generator
- Cooling/Heating Systems
- Separation
- Chemical Injection - Produced Water Treatment
- Laydown

- LP Gas Compression-Gas Dehydration-Feed Gas
- HP Gas Compression and Scrubbers
- Separation
- Water Injection
- Flowline Valves - HP/LP K.O. Drilling

## Topside layout



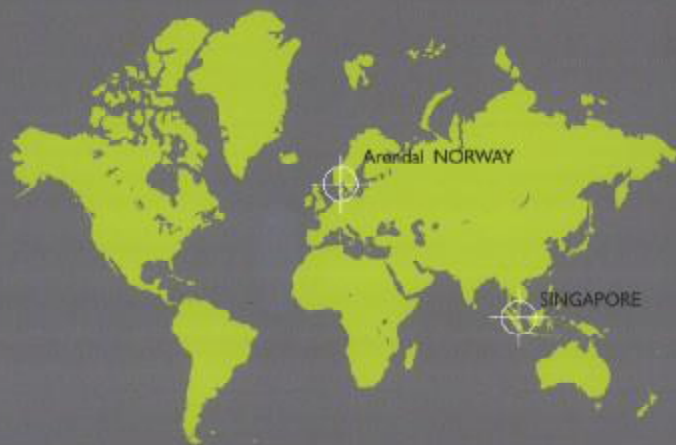
- Cooling, heating, power etc
- Separation, etc
- Gas compression, etc
- Water injection
- Laydown



- Exemplified expanded topside

*The newbuilt Nexus FPSO design accommodates:*

- *harsh environment*
- *strict regulatory requirements*
- *a wide range of production scenarios*
- *high process regularity*
- *large storage capacity*
- *disconnectable high capacity turret mooring system*
- *sequential field development strategies*



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