



Saipem

Offshore

Semac 1

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The SEMAC 1 provides a safe, reliable and stable operating platform capable of laying subsea oil and gas pipelines up to 60 inches, with additional facilities for above water tie-in operations, offshore construction and floatel capability. Optional piggyback and dual-lay configuration ensure that SEMAC 1 is capable of installing complex infield pipeline systems in addition to major trunkline systems.





Semac1 1





The equipment and control systems onboard have been maintained to keep up with current technologies.

The vessel has a 12 point mooring system to facilitate accurate positioning and movement during operations with a fully redundant control and monitoring system. The semisubmersible hull construction enables operations to continue during adverse weather conditions.

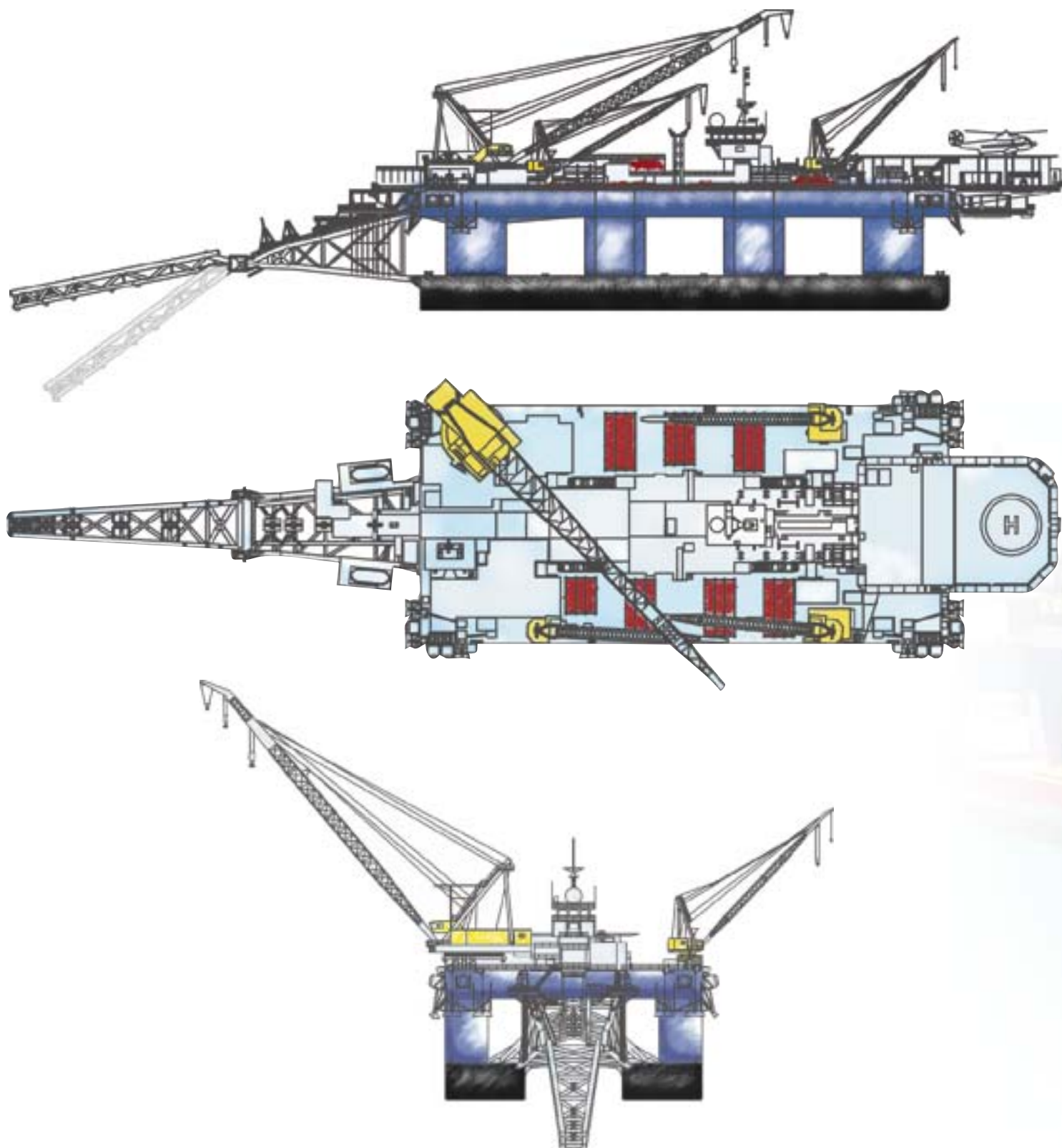
A pipeline davits lifting system provides an effective method of carrying out above water tie-in, dispensing with the conventional type of subsea tie-in system.

SEMAC 1 has the option of using a floating stinger or mini stinger extension depending upon pipe diameter, water depth and seabed conditions.

The SEMAC 1 has an extensive track record of sustained high productivity in both shallow and deep water conditions on major trunkline projects, together with an impressive list of infield projects.



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HULL TYPE

Column stabilised semisubmersible

Abandonment & recovery winch 275 tons (m)

Piggyback welding line facility

Dual-lay welding line and ramp

Above water tie-in capability

6 davits 60 tons (m)

VESSEL FEATURES

Length overall (including truss) 188.1 m

Breadth over anchor bolster (elevation) 59.2 m

Depth to main deck 27.8 m

Transit draft 7.0 m

Operating draft (typical) 13.7 m

Survival draft 7.9 m

Deck load 5,000 tons (m)

HELIDECK

Suitable for helicopters up to and including the Sikorsky

S61N type.

CLASSIFICATION

American Bureau of Shipping

NAVIGATION & COMMUNICATIONS

Fully equipped radio room GMDSS

Satellite communications and TV

2 ARPA radars

GPS/DGPS navigational & positioning

Echosounder

COMPLIANCE

NMD, HSE

POWER GENERATION

6 main generators 13.2 Mw total

1 emergency generator 600 Kw

MOORING SYSTEM

8 Delta flipper anchors 13.5 - 15 tons (m)

7 AC 14 anchors 24 tons (m)

2 DMA anchors 22 tons (m)

12 anchor winches 150 tons (m)

3,000 m anchor wire on each winch of 76 mm

BUNKER CAPACITY

Ballast capacity 21,200 cu.m

Lube oil capacity 45 cu.m

Fuel oil capacity 2,248 cu.m

Potable water capacity 1,070 cu.m

Fresh water generators 160 tons (m)/day

LIFTING EQUIPMENT

The SEMAC 1 is fitted with four revolving pedestal cranes mounted at each corner of the main deck for pipe handling and general lifting. Pipe handling davits may also be mounted on the main deck to facilitate above water tie-ins.

1 pedestal crane 318 tons (m)

2 pedestal cranes 100 tons (m)

6 pipe handling davits 60 tons (m)

CREW FACILITIES

Accommodation for 362 persons

Client offices

Conference rooms

Hospital

Galley

Cinema

Coffee bar

Satellite television

Gymnasium

2 TV rooms

PIPELAY EQUIPMENT

Longitudinal & transverse conveyors, line-up system

3 pipe tensioners 75 tons (m)

Fixed ramp, hinged floating stinger, fixed mini stinger

4 bevelling stations

2 double jointing systems

Welding stations utilising a semiautomatic system

X-ray or AUT equipped NDT stations

2 field joint coating systems



G R O U P

Saipem

People, ideas, energy.

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