

SAIPEM 7000

SEMISUBMERSIBLE CRANE AND PIPELAYING (J-LAY) DP VESSEL



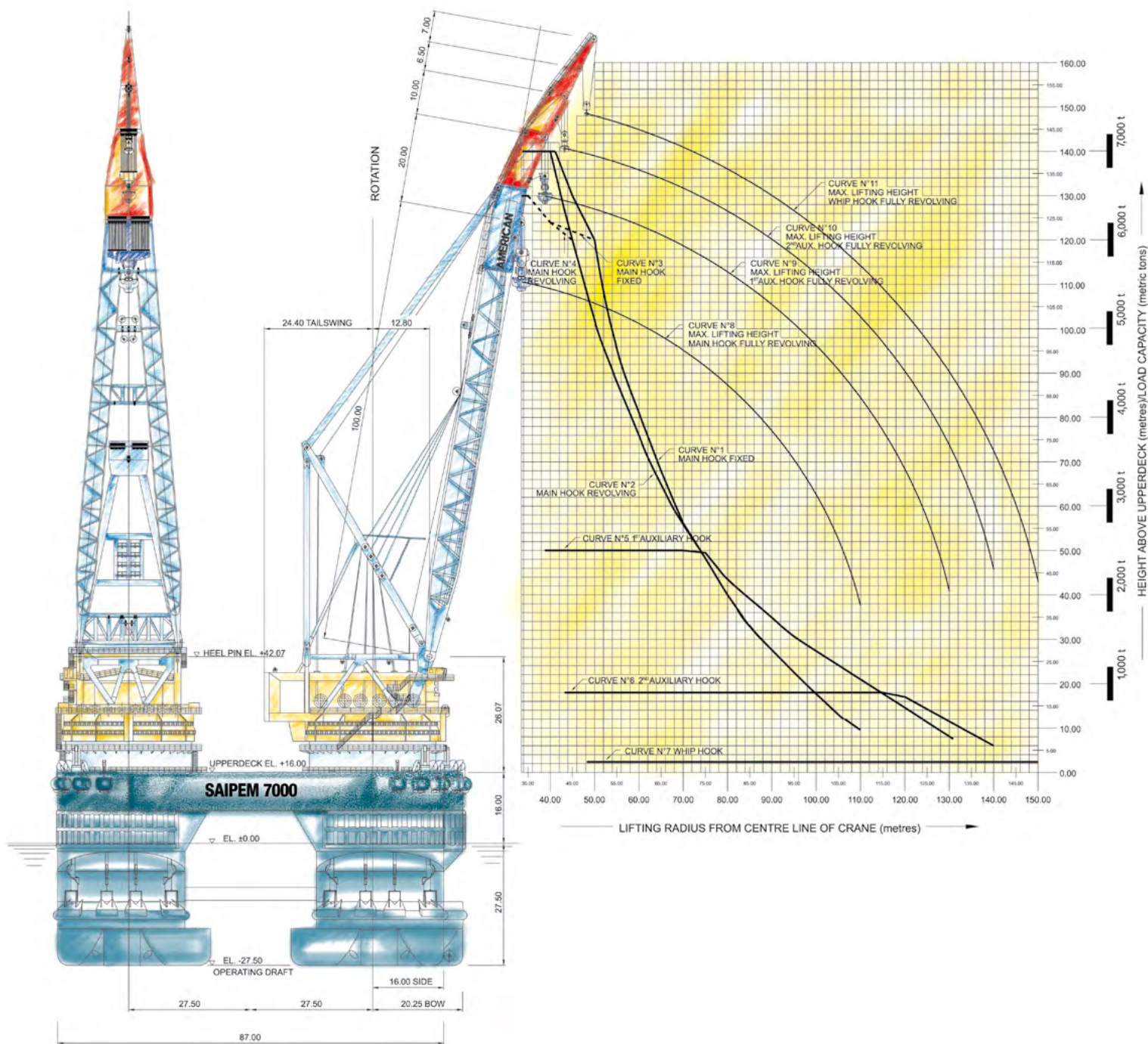


With its state-of-the-art J-lay tower, upgraded dynamic positioning capability and fast ballasting system, the Saipem 7000 semisubmersible crane vessel has the capacity to handle the entire workscope of offshore construction developments worldwide, encompassing pipelaying in water depths greater than 2,000 metres and heavy lift operations up to 14,000 tonnes.

The vessel's Class 3 DP system of 12 thrusters ensures that the vessel maintains good station keeping in the most difficult of weather conditions. Additionally, because the Saipem 7000 has accommodation facilities up to 725 people, the vessel can assist hook-up and commissioning as well as initial platform life support activities.

Altogether, this high specification means that the Saipem 7000 can be counted on to provide the highest level of reliability for conventional, deep and ultradeep water development projects.

In support of its underwater works, the Saipem 7000 operates two state-of-the-art Innovator type of working rovs, which are an essential part of the vessel's equipment that complement and integrate surface and subsea operations of the Saipem 7000.



HULL TYPE

Self propelled dynamically positioned semisubmersible

VESSEL FEATURES

Length overall
197.95 m
Upper platform
175 m x 87 m x 8.5 m
Lower pontoons
165 m x 33 m x 11.25/15.25 m
Depth to main deck
43.5 m
Free deck area
9,000 sq.m

Deck load
15,000 tonnes
Operating draft
27.5 m
Survival draft
18.5 m
Transit draft
10.5 m
Transit speed
9.5 knots



MOORING SYSTEM

14 x 1,350 kw single drum winches,
each 3,350 m x 3³/₄" mooring line
and 40 tonnes high holding
power anchor
Fully redundant SDPM system
2 anchor windlasses, each 550 m x 5
1¹/₈" chain and 34.5 tonnes anchor

PROPULSION AND THRUSTERS

All fixed pitch and variable rpm
4 aft x 4,500 kw propulsion
azimuthing units
4 fore x 3,000 kw retractable
azimuthing units
2 fore x 5,500 kw retractable
azimuthing units
2 bow x 2,500 kw tunnel thrusters





BALLAST SYSTEM

Computer controlled system with simulation capabilities comprising
 4 x 6,000 tonnes/h ballast pumps
 40 ballast tanks - Total 83,700 cu.m
 14 rapid ballast tanks - Total 26,000 cu.m

LIFTING FACILITIES MAIN CRANE

2 twin Saipem 7000 model fully revolving bow mounted Amhoist cranes.
 Main blocks tandem lift: 14,000 tonnes
 Main block single lift: 7,000 tonnes
 6,000 tonnes revolving at 45 m rad./50 m tieback
 Aux. 1 block: 2,500 tonnes
 Aux. 2 block: 900 tonnes
 Lowering capability to 450 m below sea level
 Whip hook: 120 tonnes



PILE DRIVING/HANDLING EQUIPMENT AVAILABILITY

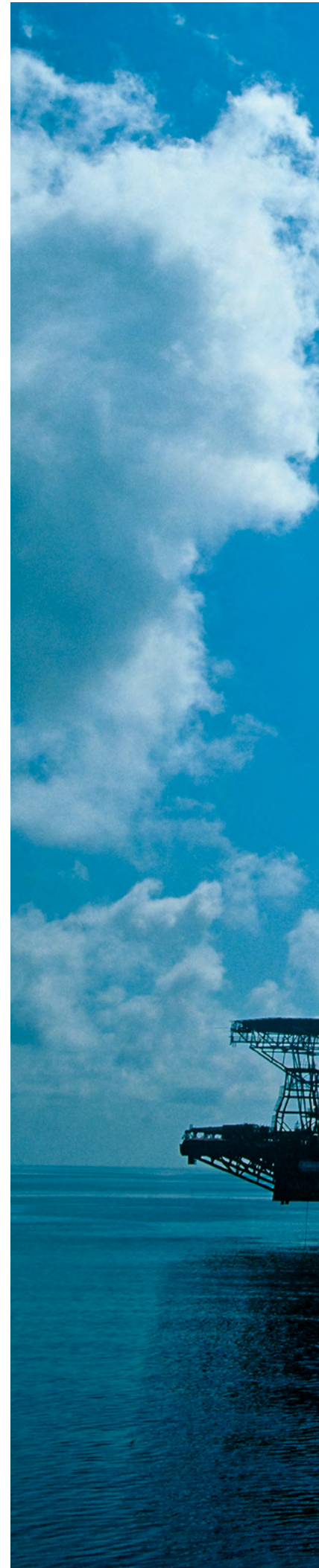
2 Menck MHU 3,000
hydraulic hammers
2 Menck MHU 1,700
hydraulic hammers
2 Menck MHU 1,000
hydraulic hammers
2 Menck MHU 600 hydraulic hammers
1 Menck MHU 220 hydraulic hammer
1 Menck MHU 195 hydraulic hammer
2 underwater/surface power packs
1 hydraulic hammer compensator
"Slim" and "Free" riding mode
capability
Full spread of internal/external lifting
clamps ranging from 20" to 102" i./o.
dia.
2 levelling systems range 66" - 72"
dia. - 900 t. capacity
2 external levelling systems 1,000
tonnes

HANDLING DECK EQUIPMENT

1 x 70 tonnes Kobelco
Crawler crane
1 x 35 tonnes hydraulic wheeled
deck crane
2 x 5 tonnes fork lifts

POWER PLANT

Total power plant 70,000 kw,
10,000 Volt
12 diesel generators on heavy fuels
divided in 6 fire segregated engine
rooms









CREW FACILITIES

388 fully AC single or double cabins for 725 persons
Gym, cinema, internal radio/TV,
400 seat main messroom
70 seat officers messroom, recreation room, bar-cafeterias

HELIDECK

Suitable for two BV234 LR Chinook helicopters (one parked)
Classified helicopter refueling system

J-LAY SYSTEM

Pipe diameter range from 4° to 32°
Main laying tension system 750 tonnes with tensioners, up to 2,000 tonnes with friction clamps
Laying tower angle 90° - 110°
Abandonment/Recovery system double capstan winch with 750 tonnes capacity (up to 2,000 tonnes with clamps)
1 welding station
1 NDT and field joint station
Pipe string quadruple joint
Pipe storage capacity up to 6,000 tonnes
The tower is self erecting and removable by the Saipem 7000 own cranes