



# SAIPEM FDS

FIELD DEVELOPMENT SHIP





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## FIELD DEVELOPMENT SHIP

### VERSATILITY

MULTI-PURPOSE,  
ABLE TO DEVELOP  
THE WHOLE FIELD

#### TECHNICAL SPECIFICATIONS

##### MAIN FEATURES

- Length overall: 163.5 m
- Length overall (with stinger): 182.5 m
- Breadth: 30 m
- Summer draft: 7.982 m
- Lay type: rigid pipe (J-lay) and flex / umbilical (tensioners & over-boarding chute)
- Rigid pipe: 4" - 22" OD
- Flexible & umbilical: 2" - 20" OD

##### CLASSIFICATION

- ABS
- IMO No. : 9210749
- Flag: Bahamas

##### PROPULSION / DP

- 2 x fwd tunnel Wärtsilä thrusters: 2,075 kW
- 2 x fwd retractable azimuthal Wärtsilä thrusters: 2,200 kW
- 1 x aft retractable azimuthal Wärtsilä thruster: 2,400 kW
- 2 x azimuthal main propulsion Wärtsilä thrusters: 4,400 kW

##### DYNAMIC POSITIONING

- DNV DYNPOS-AUTRO (Class 3)
- Integrated Kongsberg cPos, K-Pos DP, K-Pos PM, K-Pos DPM, Independent cJoy
- Main control system DP-32
- Backup control system DP-12
- DGPSes
- HiPAPs
- Taut wire system
- Fanbeams
- Gyro compasses
- Wind sensors
- Motion reference units (MRUs)

### CAPABILITY

ULTRA-DEEP WATER RIGID PIPE,  
FLEX & UMBILICAL LAY AND HEAVY  
LIFT AND CONSTRUCTION

##### POWER

- 4 x Wärtsilä 16V26, 5.0 MW
- 2 x Wärtsilä 8L26, 2.5 MW
- Emergency diesel engine: Wärtsilä Cummins type 8L170 rated at 946 kW @ 1,500 RPM

##### CARGO DECK

- Deck capacity: 10 t/m<sup>2</sup>

##### ACCOMMODATIONS

- Total: 261 persons

##### DECK EQUIPMENT

- 1x Main crane Amclyde  
Main hook 600 t @ 30 m radius  
Whip hook 70 t
- 2 x Liebherr aux. cranes 50 t @ 20 m radius
- 1 x Liebherr with telescopic boom 15 t @ 16 m radius
- 1 x Liebherr with fixed boom 20 t @ 20 m radius

##### PIPELAY EQUIPMENT

- *Firing line*
- LCE: Longitudinal Conveyor Line (starboard)
- MID-FRE: Mid Free Line (middle)
- FRE: Firing Ramp Equipment (port)
- 6 x working stations
- *J-lay tower*
- Laying quad-joints up to 50 m long
- JLT Lay Tension max.: Dynamic 550 t
- TRAC (Travelling clamp): 550 t
- HOC (Hang-off clamp): 750 t
- JLT A&R system rating: 400 t
- Safety clamp: 750 t holding capacity

### RELIABILITY

20-YEAR TRACK RECORD IN DEEP  
WATER FIELDS WORLDWIDE

##### A&R WINCHES

- A&R winch 680 t (440t in AHC)
- A&R winch 140 t
- FAST AHC winch: 13.5 t

##### FLEXIBLE / UMBILICAL LAYING EQUIPMENT

###### *Tensioners*

- 2 x REMACUT 90 t: 4 track each
- Max. laying speed: 30 m/min at 45 t
- Max. squeeze load: 320 t/track

###### *Overboarding chute*

- Min. radius: 12 m
- Capacity: 140 t

###### *SAS winch*

- Reel weight: 350 t
- Reel diameter: 2.8 m to 12.9 m

##### ROVs

- 2 x Ultra-deep water Innovator ROVs 3,000 m WD, 150 HP
- LARS, A-frame: Takmar, XT-90 & Takmar, XWM-90
- Dynacon, 521XL

##### HELIDECK

- D22 AS PER CAP 437 octagonal approx. 27.2 x 27.2 m

## DID YOU KNOW?

THE SAIPEM FDS IS A MULTI-PURPOSE & VERSATILE VESSEL, ABLE TO ENTIRELY DEVELOP AND SUPPORT ULTRA-DEEP WATER OFFSHORE OIL FIELDS

The Saipem FDS is a multi-purpose DP3 and self-propelled vessel designed to lay rigid pipes, umbilicals & flexibles and install subsea structures in ultra-deep water fields.