

# TELFORD 30

**DP3 Pipelay  
Offshore Construction  
Accommodation & Hook Up**





# TELFORD 30



Built according to a distinctive hybrid design philosophy, the Telford 30 is a multipurpose DP3 vessel suitable for rigid pipelay, offshore construction and accommodation and hook up activities. The Telford 30 vessel has a large unobstructed main deck, a 270mt crane and large-scale accommodation capacity. The T30 has been utilized on major projects offshore West Africa delivering accommodation services with platform supply capability to support construction and operations in Block 15 on Kizomba A, offshore Angola, and Chevron to serve the Agbami FPSO, offshore Nigeria, where her accommodation capacity was increased with a Portable Accommodation Block (PAB) installed on the main deck. As a pipelay vessel she was awarded\* by NPDC, a subsidiary of Nigerian National Petroleum Corporation (NNPC), the installation and commissioning of a new 16" x 13.5 km pipeline in OML 119, offshore Nigeria. The pipeline was designed to allow for both routine and intelligent pigging, with a pig launcher on Okpoho platform and the pig receiver on FPSO Mystras at the Okono field.

\*Project executed by West African Ventures

## SPECIFICATIONS

### General

- **Classification** ABS ✕ A1 Barge (E), ✕ PAS, ✕ DPS-3, CRC
- **Flag** Gibraltar
- **Call Sign** ZDHS6
- **IMO Number** 9420655
- **Delivery** October 2006

### Principal dimensions

- **Length Overall** 111.08m
- **Breadth** 30.48m
- **Extreme Breadth** 38.00m
- **Depth Main Deck** 6.71m
- **Operational Draft** 4.70m
- **Maximum Draft** 5.00m
- **Maximum Draft** 7.70m (Retractable thrusters deployed)
- **Gross Tonnage** 12 020t
- **Net Tonnage** 3 606t

### Craneage

- **Mast Crane (Seatrac)**
  - **Main Hoist** 270mt @16m
  - **Aux. Hoist** 27mt @12.2m
- **Pedestal Crane (TTS Marine)**
  - **Main Hoist** 34mt @ 20m  
22mt @ 30m
  - **Aux. Hoist (man-riding)** 5mt @ 31m

### Clear Deck Area

- **Approx. 700m<sup>2</sup>**

### Deck load

- **10t/m<sup>2</sup>**

### Capacities

- **Fuel Oil (storage)** 2040m<sup>3</sup>
- **Fuel Day (day tank)** 47m<sup>3</sup>
- **Fuel Oil Purification** 64m<sup>3</sup>
- **Fuel Oil Settling** 64m<sup>3</sup>

- **Lube Oil** 90m<sup>3</sup>
- **Fresh Water** 3111m<sup>3</sup>
- **Ballast Water** 6362m<sup>3</sup>
- **Sludge Oil** 41m<sup>3</sup>
- **Dirty Oil** 46m<sup>3</sup>
- **Black/Grey Water** 473m<sup>3</sup>
- **Bilge Water** 160m<sup>3</sup>

### Service Air

- **Service Air Compressor (Deno)**  
2 x 24m<sup>3</sup>/min FAD@6 bar

### DP System

- **Kongsberg Simrad SDP 21**  
Aft Working Bridge
- **Kongsberg Simrad SDP 11**  
Fore Navigation Bridge

### DP Reference System

- **1x Radius 1000**  
(independent operated)
- **2x DGPS Receivers**
- **3x Gyro Compass**

- **3x Motion Reference Units**
- **1x Lightweight Tautwire**
- **1x Gangway (if connected)**
- **1x Cyscan + Prisms Clusters**
- **3x Wind Sensors**

### Power Plant

- **Main Generators (Caterpillar)**  
3 x diesel engines CAT 3 516 B  
(1 825kW)

### Propulsion

- **Bow Thruster (Wartsila)**  
1x electrically driven 13 55kW
- **Forward/Aft Thrusters (Thrustmaster)**  
4 x fixed pitch hinged azimuth hydraulic driven thrusters type OD1500 (1200kW)
- **Center Aft Thruster (Wartsila)**  
1x electrically driven retractable fixed pitch thruster (1000kW)





## Endurance

- **Fresh Water** 3x50t/24hrs
- **Fuel Oil** (typical)
  - Harbor 5m<sup>3</sup>/24hrs
  - Transit 20m<sup>3</sup>/24hrs  
(2 x aft thrusters only)
  - DP 13m<sup>3</sup>/24hrs

## Helideck

- ABS, CAP437 compliant, suitable for Sikorsky S-92A Helibus
- Max. "D" 22.20m
- Max. T.O.W. 13t
- Helideck Monitoring System 100
- Fixed foam system (3 monitors)

## Accommodation

- Fully air-conditioned permanent accommodation for up to 296 persons in cabins all with individual bathroom facilities. Including conference room, offices, cinema, gymnasium, recreation rooms, laundry, internet café as well as an hospital.
- **96 berths in 77 cabins**
  - 2x1 person cabins
  - 3x2 persons cabins
  - 72x4 persons cabins

## Radio/Communication

- V-Sat Antenna (*Intellian*)
- GMDSS Area 1,2 & 3
- EPIRB
- SART
- Integrated Telephone System
- Sound Powered Telephone
- Public Address System

## Lifesaving appliances

- **Liferafts** 36x25 persons
- **Fast Rescue Boat** 1x6 persons

## Gangway

- **Electric-Hydraulic Telescopic Personnel Transfer Gangway** (*Marine Aluminium*)  
**Operational length** 36.50m

## Pipelay equipment

- **Pipelay System** (*SAS*)  
Starboard mounted single joint S-lay system under dismantlable Firing Line shelter
- **Capacity**  
4"-48" diameter pipe (with coating 60")
- **Tensioners**  
1x100t Horizontal Tensioner
- **Davits**  
5x60t with load cells
- **Stinger**  
Length 35m, supported by stuts
- **Workstations**  
5 working stations for welding, NDE (X-ray or Ultrasonic), pipe repair and coating
- **A&R system** (*Rolls Royce*)  
- 100t A&R Winch 100t  
- 100t A&R Measuring Sheave

## Mooring System

- **10 point Mooring System** (*PH*)  
- 4x110t Single drum winches, hydraulic driven, with 1500m of Ø52mm Steel Wire Rope capacity  
- 4x150t Single drum winches, hydraulic driven with 2000m of Ø63mm Steel Wire Rope capacity

- 2 single drum winches (*Rolls Royce*), hydraulic driven Type 100t, 64mm wire, 1800m in 14 layers
- **Capstan** (*Mentrade*)  
4x10t

## Additional Data

- **Sewage Treatment Unit** (*Hamworthy*)  
1 unit, with nil overboard discharge
- **Incinerator** (*TeamTec*)  
1x800,000kcal/h
- **Yokohama Fenders**  
6.50x3.30m





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Calle 35 D, Suite 10  
Col Malibrán, 24197  
Ciudad del Carmen, Campeche  
Mexico  
Tel: +52 (1) 5564 151 719 (Mexico)  
+54 (9) 11 2790 2463 (Argentina)

## Europe

### The Netherlands

Maxwellstraat 2  
3316 GP Dordrecht  
The Netherlands  
Tel: +31 78 6526 930

## West Africa

### Angola

Condominio Mares do Sul  
Casa no. A07  
Talatona - Benfica  
Luanda  
Angola  
Tel: +244 923 522175

### Ghana

F181/5 Josiah Tongorara Street  
PMB CT 68 Cantonments  
Accra, Ghana  
Tel: +233 203 654 079  
+233 544 312 460

## Middle East

### UAE, Dubai – Headquarters

Telford Offshore Ltd  
Floor 31, Reef Tower  
P.O. Box 5003365  
Jumeirah Lakes Towers  
Dubai, United Arab Emirates  
Tel: +971 4 350 7600

## Asia-Pacific

### Australia

Level 24, 77 St Georges Terrace  
Perth WA 6000  
Australia  
Tel: +61 8 9218 5888

[contact@telfordoffshore.com](mailto:contact@telfordoffshore.com)