



# DAMEN ANCHOR HANDLING TUG SUPPLY 180

## AHTS 18000

### GENERAL

|                 |   |
|-----------------|---|
| Basic functions | Offshore supply, towing and anchor handling operations                                      |
| Classification  | Lloyds Register<br>*100 A1 Anchor Handler, Offshore Supply Ship, Tug, *IWS, *LMC UMS DP(AM) |

### DIMENSIONS

|                               |                    |
|-------------------------------|--------------------|
| Length o.a.                   | 79.20 m            |
| Length b.p.p.                 | 73.50 m            |
| Beam mld.                     | 20.00 m            |
| Depth mld.                    | 8.40 m             |
| Draught summer (base)         | 6.80 m             |
| Draught summer (keel)         | 7.40 m             |
| Deadweight (summer)           | 2700 t             |
| Cargo deck area               | 545 m <sup>2</sup> |
| Deck load (at 1 m above deck) | 800 t              |

### TANK CAPACITIES

|                         |                     |
|-------------------------|---------------------|
| Ballast water           | 900 m <sup>3</sup>  |
| Fuel oil                | 1045 m <sup>3</sup> |
| Potable water (service) | 220 m <sup>3</sup>  |
| Potable water (cargo)   | 540 m <sup>3</sup>  |
| Chain lockers           | 280 m <sup>3</sup>  |

### PERFORMANCES (APPROX.)

|                           |         |
|---------------------------|---------|
| Speed (at summer draught) | 15.4 kn |
| Bollard pull              | 180 t   |

### PROPULSION SYSTEM

|                  |                                   |
|------------------|-----------------------------------|
| Main engines     | 4x MAN 7L27/38                    |
| Propulsion power | 4x 2555 bkW                       |
| Propellers       | 2x 4300 mm, CPP in optima nozzels |
| Bow thruster     | 2x 750 kW, 1740mm, FPP            |
| Stern thruster   | 1x 820 kW, 1740mm, FPP            |

### AUXILIARY EQUIPMENT

|                               |  |
|-------------------------------|--|
| Networks                      | 690 V, 440 V and 230 V                                     |
| Shaft generators              | 2x 1500 ekW at 1800rpm                                     |
| Main generator sets           | 2x Caterpillar C18, 550 ekW each at 1800 rpm, 690 V, 60 Hz |
| Emerg./ harbour generator set | 1x Caterpillar C9, 238 ekW at 1800 rpm, 440 V, 60 Hz       |

### DECK LAY-OUT

|                      |   |
|----------------------|---|
| Deck crane           | 1x 5 t @ 10 m<br>1x 2.9 t @ 9m / 1.6 t @ 16.4 m                         |
| Anchor mooring winch | 1x Electric-hydraulic, with rope drum and two warping heads             |
| AH/Towing winch      | 1x electric, double drum, 410 t pull, 450 t brake, 5600 m of 86 mm wire |
| Secondary winch      | 2x electric, 130 t pull, 130 t brake, 1100 m of 203 mm rope             |
| Towing pins          | 4x SWL, 180 t, hydraulic  |
| Chain fork           | 2x SWL, 500 t, hydraulic  |
| Stern roller         | 1x SWL, 500 t, split drum, ø 3.0 m, 6 m length                          |
| Tugger winches       | 2x electric, each 15 t pull   |
| Capstans             | 2x electric-hydraulic, each 10 t pull                                   |

### CARGO HANDLING SYSTEM

|                  |                                    |
|------------------|------------------------------------|
| Ballast pump     | 2x 100 m <sup>3</sup> /hr at 3 bar |
| Fuel oil pump    | 1x 100 m <sup>3</sup> /hr at 9 bar |
| Fresh water pump | 1x 100 m <sup>3</sup> /hr at 9 bar |

### ACCOMMODATION

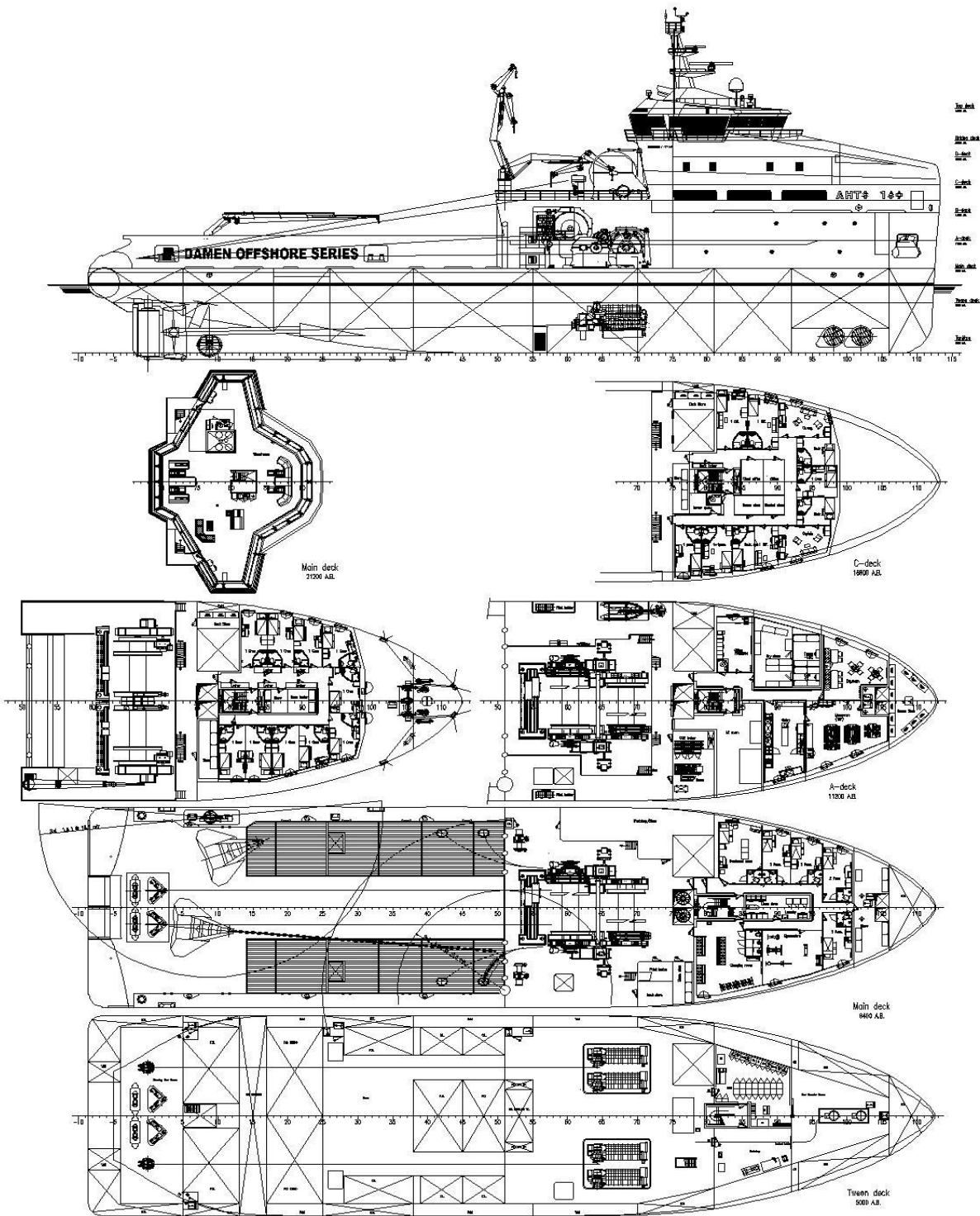
|            |            |
|------------|------------|
| Crew       | 16 persons |
| Passengers | 11 persons |

### NAUTICAL AND COMMUNICATION EQUIPMENT

|               |                     |
|---------------|---------------------|
| Radar systems | 1x X- band + S-band |
| DP – system   | DP 1                |
| GMDSS         | Area A3             |

### OPTIONS

Fire Fighting Ship 1 or 2  
IMO DP Class 2  
Travelling cranes  
Hybrid propulsion  
Hydraulic AHT Winch  
Extended accommodation



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## DAMEN

DAMEN SHIPYARDS GORINCHEM

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