



## DAMEN ASD TUG® 2810

### "SMIT EBRO"

#### GENERAL

YARD NUMBER	511546
DELIVERY DATE	August 2009
BASIC FUNCTIONS	Towing and mooring operations
CLASSIFICATION	Bureau Veritas I ✱ HULL •MACH Tug Unrestricted Navigation AUT UMS
FLAG	Bahamas
OWNER	SMIT

#### DIMENSIONS

LENGTH O.A.	28.67 m
BEAM O.A.	10.43 m
DEPTH AT SIDES	4.60 m
DRAUGHT AFT	4.85 m
DISPLACEMENT	573 ton

#### TANK CAPACITIES

FUEL OIL	100.1 m <sup>3</sup>
FRESH WATER	14.9 m <sup>3</sup>
FOAM	8.0 m <sup>3</sup>
LUBRICATION OIL	8.9 m <sup>3</sup>
BILGE WATER	5.3 m <sup>3</sup>
DISPERSANT	4.7 m <sup>3</sup>
DIRTY OIL	3.1 m <sup>3</sup>
SLUDGE	3.1 m <sup>3</sup>
SEWAGE	2.2 m <sup>3</sup>

#### PERFORMANCES (TRIALS)

BOLLARD PULL AHEAD	60.0 tons
BOLLARD PULL ASTERN	56.0 tons
SPEED AHEAD	13.6 knots
SPEED ASTERN	13.6 knots

#### PROPULSION SYSTEM

MAIN ENGINES	2x Caterpillar 3516B TA HD/C
TOTAL POWER	3678 bkW (4930 bhp) at 1600 rpm
AZIMUTH THRUSTERS	2x Rolls Royce US205
PROPELLER DIAMETER	2400 mm
FORCED VENTILATION	55.000 m <sup>3</sup> /hr

#### AUXILIARY EQUIPMENT

GENERATOR SETS	2x Caterpillar C4.4 TA, 230/400 V, 107 kVA, 50 Hz
BILGE PUMPS	2x Sterling SIHI AKHA 5101 each 20 m <sup>3</sup> /hr
BILGE WATER SEPARATOR	Facet CPS 2.5B, 0.5 m <sup>3</sup> /hr
FUEL PUMPS	Sterling SIHI AKHA 4101 and AOHA 3101
FUEL OIL SEPARATOR	Westfalia OTC 2-02-137
COOLING SYSTEM	Box cooling
PRESSURE SET	Fresh water Sterling AOHA 1202
SEWAGE TREATMENT PLANT	Hamann Supermini

#### DECK LAY-OUT

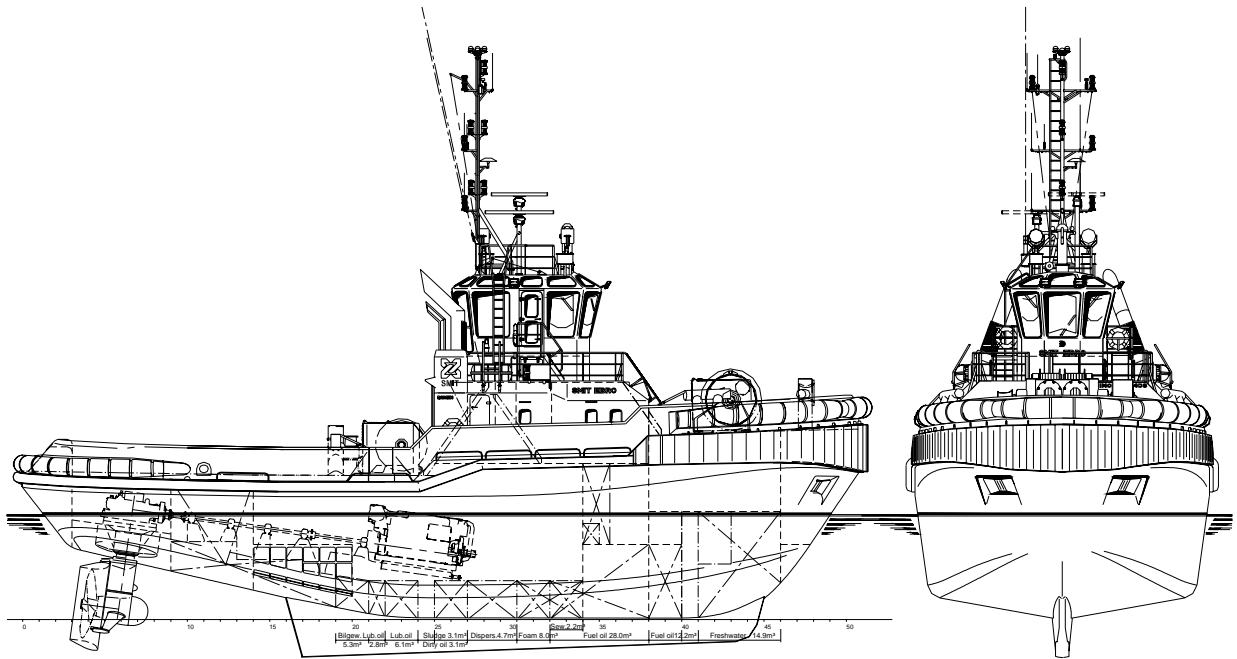
ANCHOR	2x 360 kg Pool (High Holding Power)
ANCHOR/TOWING WINCH	DMT, hydraulically driven 30 ton at 11 m/min, 150 ton brake
CAPSTAN	DMT, 5 ton at 15 m/min, electrically driven
TOWING HOOK	Mampaey, disc type, SWL 65 ton
TOWING WINCH AFT	DMT, hydraulically driven, 30 ton at 11 m/min, 150 ton brake
FENDERING	D-fender at sides and stern, cylinder and W-block bow fender

#### ACCOMMODATION

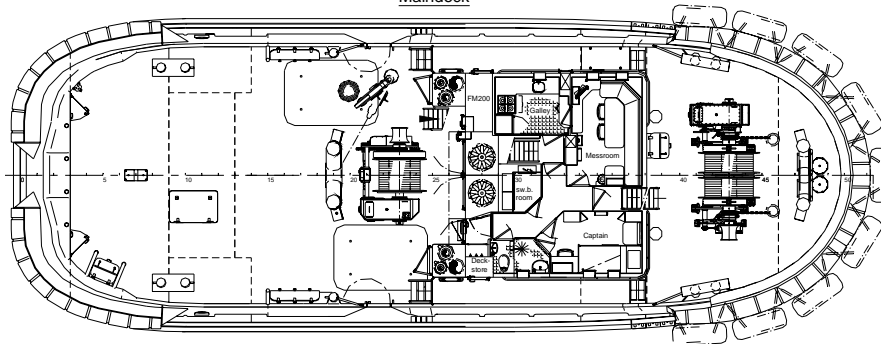
Accommodation for 6 persons, completely insulated and finished with durable modern linings, acoustical Dampa ceiling in the wheelhouse and floating floors. Air-conditioned accommodation, with 4 cabins above the waterline, galley, mess/dayroom, workshop and sanitary facilities.

#### NAUTICAL AND COMMUNICATION EQUIPMENT

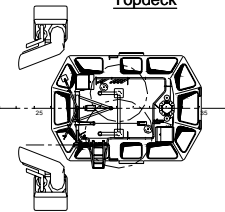
SEARCHLIGHT	2x Pesch 1000W
RADAR SYSTEM	JRC JMA-5310/-6 + JRC JMA-609
COMPASS	Magnetic Kotter
GPS COMPASS	JRC JLR 10T
AUTOPILOT	Raytheon Anschutz NP 60
GPS	JRC NWZ-4451 JNAV500
ECHOSOUNDER	JRC JFE 380
VHF RADIO TELEPHONE	2x Sailor RT-5022 with DSC
NAVTEX RECEIVER	JRC NCR 333
SSB RADIO	Sailor 4000
AIS	JRC JHS 182



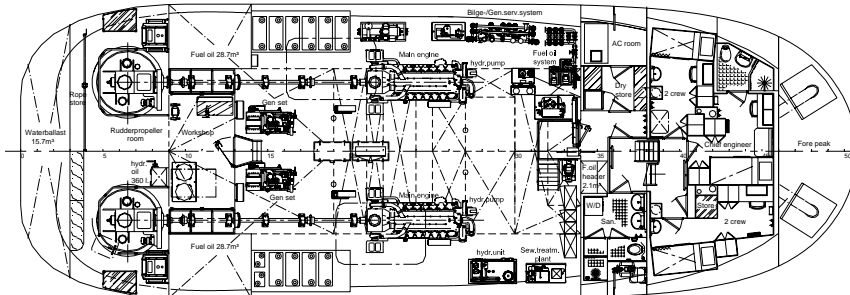
Maindeck



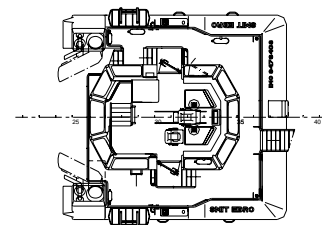
Topdeck



Below Maindeck



Bridgedeck



# DAMEN ASD TUG<sup>®</sup> 2810

"SMIT EBRO"

**DAMEN**

DAMEN SHIPYARDS GORINCHEM

Member of the DAMEN SHIPYARDS GROUP



Industrieterrein Avelingen West 20  
4202 MS Gorinchem

P.O. Box 1  
4200 AA Gorinchem  
The Netherlands

phone +31 (0)183 63 99 11  
fax +31 (0)183 63 21 89

info@damen.nl  
www.damen.nl