

B-CLASS

# SEA ECHO



## TECHNICAL SPECIFICATIONS SEA ECHO

### GENERAL

<b>Type</b>	Shoalbuster 2308
<b>Delivery date</b>	September 2007
<b>Yard</b>	Damen Shipyards Hardinxveld
<b>Basic functions</b>	Towing, mooring, pushing, anchor handling and dredging support.
<b>Flag</b>	Dutch
<b>Port of Registry</b>	Vlissingen
<b>Call sign</b>	PHLP
<b>IMO no.</b>	9695767
<b>Classification</b>	Bureau Veritas I + Hull Tug Coastal Waters Extended to 30 miles from shore - MACH
<b>Regulations</b>	Dutch Shipping Inspections
<b>Owner</b>	Seacontractors

### DIMENSIONS

Length overall	23.35 m
Beam mld.	8.00 m
Depth at sides	2.99 m
Airdraft min.	7 m
Airdraft max.	12 m
Operating draft	2 m
Min. draught	1.90 m
Max. draught aft	2.20 m

Displacement	165T
GT/NT	123/37

### TANK CAPACITIES

Fuel Oil	45.50 m3
Fresh Water	13.90 m3
Lubricating Oil	1.90 m3
Hydraulic Oil	0.90 m3
Dirty Oil	3.50 m
Sewage	1.90 m
Bilge water	0.90 m3

### PERFORMANCES

Bollard Pull	23.3 tons
Speed	11 knots

### PROPULSION SYSTEM

Main engines	2x Caterpillar type 3421D TTA
Total power	1264 bkW (1696 hhp) at 1800 rpm
Gearboxes	2x Reintjes WAF 464L/5.042:1
Propulsion	2x Promarine fixed propellers
Diameter	2x 1606 mm in v.d. Giessen Optima nozzles
Bowthruster	120 HP, hydraulically driven
Nozzles	2x v.d. Giessen "Optima" Nozzles

### AUXILIARY EQUIPMENT

Main generator sets	2x Caterpillar 3054
Capacity	42,5 kVA each, at 1500 rpm
Hydraulic power	Caterpillar C9, 208 bkW at 1800 rpm
Transfer pumps:	
For fresh water	25 m/hr at 1.5 bar
Air compressor	ABAC B5900

### DECK LAY-OUT

Anchor	2 x 200 kg pool (H.H.P)
Deck crane	Heila HLRM 80 ton – 3 SL
Capacity	5,3 T @ 12,05m
Chain	19 mm – 137.5 m shortlink
Towing winch type	Ridderinkhof double drum side by side
Towing drum	30T @ 3m/min pulling force
Towing drum	40T holding force
Towing wire fitted	500 mtr, 32 mm
Anchor handling winch	Ridderinkhof, hydraulic 30T pulling force @ 3m/min
Anchor hand./tow	80m, 30 mm
Tugger winch	Pull 8T-4,5m/min / 0.5T-20m/min
Towing hook	Mampaey SWL 25 ton
Anchor winch	Ridderinkhof , hydraulic Tow



**SEACONTRACTORS**

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Pins / Guide Pins	WK hydraulics, triple pin type, SWL 40T
Pushbow	yes
Stern roller	yes, SWL 40T
Moonpool	yes, dimensions 300 x 500mm
Free deckspace	45 m2
Deck strength	2T/m2
A-frame	optional

## NAUTICAL AND COMMUNICATION EQUIPMENT

Searchlights	Pesch 2000 W + Pesch 200 W
GMDSS	A equipped
Radar	Furuno FAR-2117
VHF radio telephone	3x Sailor RT 5022, 25 Watt
Handheld VHF	2x Jetron
Navtex	Furuno NX-700
Electronic Chart system	Tresco
Autopilot	Radio Holland Seapilot 75
Inmarsat C	1x Felcom 15
Echo sounder	1x Furuno FE-700
GPS	1x Furuno GP-150
Compass	1x Cassens & Plath
Gyro Compass	1x Raytheon STD 22
AIS	Furuno FA-50
Speed log	Furuno DS-80
Satcom. System	1x SP-radio H2095C
Intercom	RZ Delta 70
Chart system	Tresco
Watch alarm	Marble 421

## ACCOMMODATION

Heated and air-conditioned living spaces for 5 persons, consisting of a captains cabin, a chief engineers cabin, one single cabin, a double cabin, a galley and sanitary facilities.

Berths: 5



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