

**The Kaapcoaster 2300** is a new extremely economic vessel, specially developed for coastal sea/river trading and built by the Dutch Shipyard De Kaap in Meppel, the Netherlands. Shipyard De Kaap is renowned and has an excellent reputation as builder of smaller quality coasters and tankers.

The *Kaapcoaster* is the first of a serial production of new "green concept" coasters with very economic fuel consumption.

The *Kaapcoaster* is a 2300 DWT multi-purpose coaster with a low draft and double propulsion, powered by two diesel-electric units, placed in line in the vessel. Two Reintjes reduction-boxes drive the new developed sophisticated propellers pushing the vessel to a speed of approximately 10 knots. The double propulsion will give the vessel also a very good maneuverability, which is an additional advantage in smaller ports. The vessel has excellent stowage flexibility for general cargoes such as steel, coils, timber, coal, grain and dangerous goods (IMDG prepared) but can also take two tiers high cube containers under deck.

Due to the fact that the propulsion is now powered by relatively smaller diesel-electric units (total of 750 kW) in combination with a Power Management System developed by D&A Electric, the vessel consumes substantially less gasoil than similar vessels with normal, diesel-driven main engines.

With today's bunker prices this can make a saving on gasoil only of about €65,000 per year, based on the kind of trade the vessel operates in. This figure is an average on a vessel operating in the European coastal trade. Figures are not only an estimation, but meantime tested and a vessel equipped with same system is showing the expected results. Differences in lower consumption up to 20% and sometimes even more have been managed already. Lower consumption of gasoil reduces the vessels exhaust emissions.

Engine maintenance on board can be strongly reduced and engine rooms need less equipment. Lube consumption will be also be reduced and therefore engine rooms can be kept smaller.

This concept is currently being realized in the first 2,300 deadweight *Kaapcoaster* for general cargo, ordered by Dutch operators and built by Shipyard De Kaap.

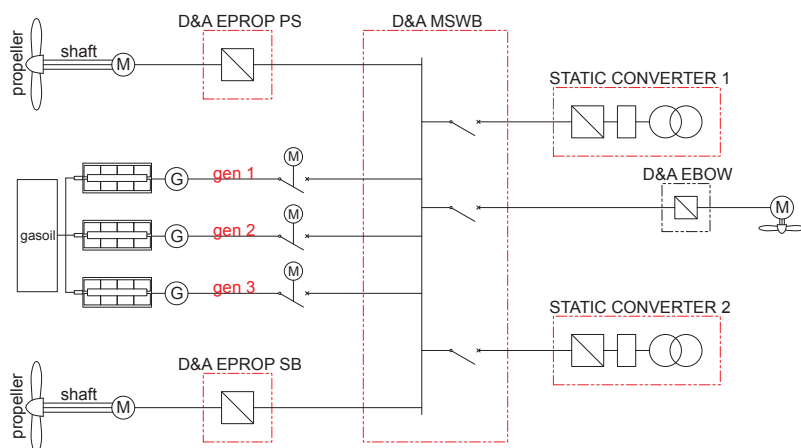
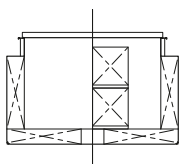
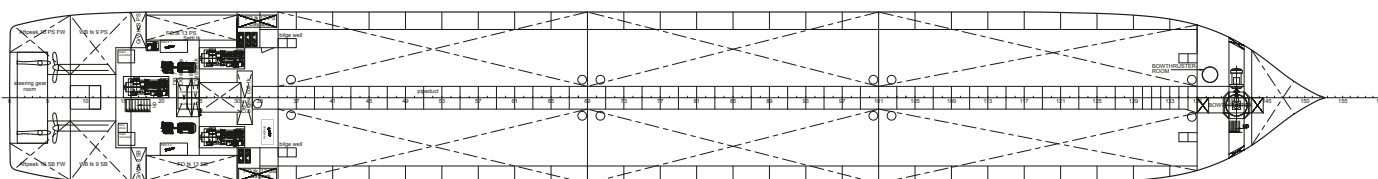
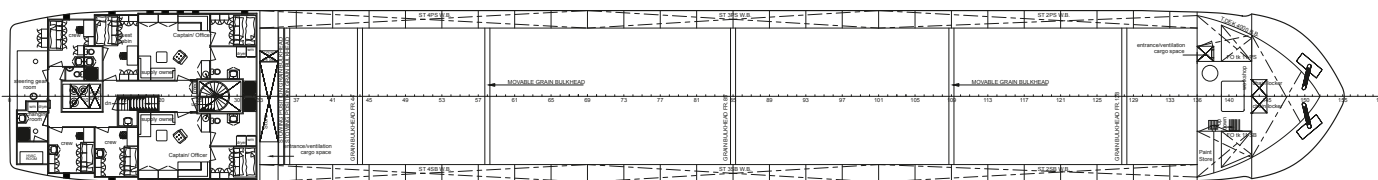
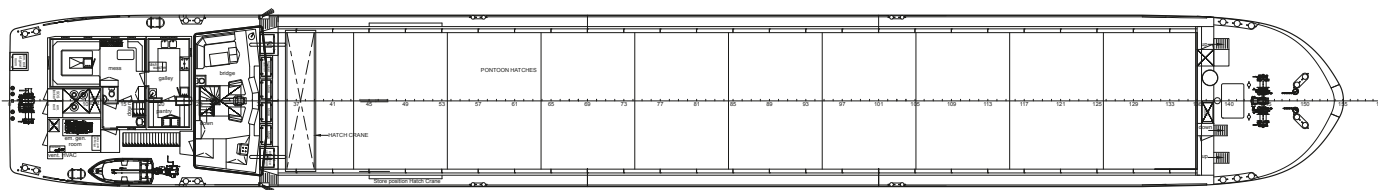
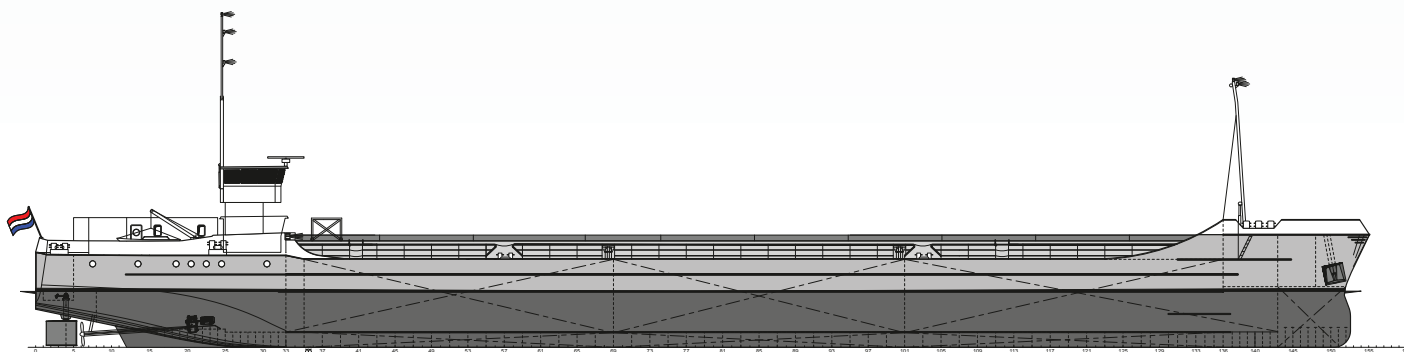
#### Technical particulars

Length, oa	87.95 m
Length, bp	84.32 m
Breadth, max.	11.40 m
Depth to main deck	5.80 m
Width of double skin	
side	1.15 m
bottom	1.00 m
Draught	
ballast	2.91 m
service	3.70 m
Gross	1,595 gt
Displacement	3,200 tonnes
Lightweight	970 tonnes
Deadweight	2,300 dwt
Block coefficient	0.875
Speed, service	10.1 knots
Airdraft, ballast	6.09 m
Airdraft, loaded	5.30 m
Cargo capacity	3,272 m <sup>3</sup>
Capacities	
Fuel oil	89.5 m <sup>3</sup>
Water ballast	1,375 m <sup>3</sup>
Fresh water	20 m <sup>3</sup>
Bilge water	3.5 m <sup>3</sup>

Dirty oil	2 m <sup>3</sup>
Black and greywater	11 m <sup>3</sup>
Lube oil	2.5 m <sup>3</sup>
Classification	Bureau Veritas, I * HULL * MACH, General Cargo Ship, Unrestricted Navigation, *AUT-UMS, STRENGTH BOTTOM, IMSBC-Code, GMDSS Area A2, SOLAS Ch.II-2 reg 19 Carriage of dangerous goods
Propulsion type	Diesel-electric
Power Management System	D&A Electric
Main generator set (diesel-driven)	
Manufacturer	Volvo Penta
Model	D13 MG
Number	3
Type of fuel used	Gasoil
Generator make	Leroy Somer
Output	400 bkW/1,800 rpm
Gearbox	
Make	Reintjes
Type	AF 364
Reduction	4.920:1
Number	2
Electric motor	
Make	Leroy Somer

Number	2
Output/speed	375 ekW/1,800 rpm
Propeller	
Material	CuNiAl
Number	2
Pitch	Fixed
Diameter	1,600 mm
Speed	365 rpm
Emergency generator	
Manufacturer	Caterpillar
Number	1
Engine make/type	CAT C4.4 DI-T
Output/speed	51.5 kW/1,500 rpm
TEU capacity	
in hold	54 TEU
on hatchcovers	24 TEU
Hatch covers	
Number	10
Type	Pontoon hatches
Make	Coops en Nieborg
Hatch cover crane	
Number	1
Make	Coops en Nieborg
Safe working load	abt. 10 tonnes
Complement	
Officers	2
Crew	3
Spare	1
Steering system/rudder	
Number	2
Make	Promac
Type	Hydrodynamic profile rudders
Bow thruster	
Manufacturer	Van Wijk
Type	SD 1200 A
Motortype/make	Electric motor/ Leroy Somer
Output/speed	350 kW/1,800 rpm

Constructed and built by Shipyard De Kaap in Meppel, The Netherlands.



### Principal particulars

Length, oa	87.95 m
Length, bp	84.32 m
Breadth, max.	11.40 m
Width of double skin	
side	1.15 m
bottom	1.00 m
Draught	
ballast	2.91 m
loaded	3.70 m
Airdraft	
ballast	6.09 m
loaded	5.30 m