Holland Shipbuilding

MAGAZINE FOR SHIPBUILDING - MARINE ENGINEERING - OFFSHORE - YACHT BUILDING

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HOS Achiever

FIRST SHIP LAUNCHED OF REVIVED IHC MERWEDE KRIMPEN A/D IJSSEL SHIPYARD

Beautriumph

FIRST COMBI FREIGHTER 7200 IN A SERIES OF 11

CSD250

POCKET-SIZED DREDGER SHIPPED TO MALDIVES IN 2 CONTAINERS

Darsea

A CLASSIC BEAUTY FRESH FROM THE DRAWING BOARD

Secret

A FEADSHIP DREAM FOR GUESTS AND CREW ALIKE

SPECIFICATION OF STATE OF STAT



Darsea

Herald of a new series of Moonen Displacement yachts

Builder: Moonen Shipyards BV Styling: René van der Velden Yacht Design Interior Design: Art-Line Interiors Naval Architecture: Diana Yacht Design Mechanical Engineering: Moonen Shipyards BV

Starring a glorious and hopeful role as herald for a new series of displacement yachts by Moonen, 'Darsea' will introduce the steel hulled, aluminium super-structure medium sized long range cruising Moonen 97 series to the Cannes Monaco Yacht Show audience this month. Another successful series from Moonen Shipyards is dawning, as the first two yachts have been built and the third is under construction, even before the yacht show début.

he Moonen 97 is an evolutionary design, derived from two recent yachts by Moonen. The custom built Moonen 96 Clementine, launched 2005, was one of the yachts that set parameters for the new design. The shipyard's most successful model, the Moonen 84 was the other source of inspiration. The eighth yacht in this semicustom series has been launched this year. The strong attraction of the Moonen 84 has been its practical fourcabin layout. The equally strong attraction of Clementine is the considerable volume she offers on a waterline about four meters longer than that of the 84. Combining and rearranging the outstanding features of both designs, Moonen has created the new 97-foot model to satisfy a clear market need for

a medium-size, long-range cruiser between its smallest model, the Moonen 72, and its new 'Queen of the Fleet,' the Moonen 124.

René van der Velden sculpted the Moonen 97 to have a close family resemblance to the Moonen 84, with a harmonious - somewhat classical - profile comprising a nicely flared bow, sloped stern with twin stairways, graceful sheerline, and bold fashion plates. The greatest apparent difference in the Moonen 97 is that the raised pilothouse of the 96 has been replaced by a long open flying bridge and sundeck with whirlpool bath, resulting in a somewhat lower profile, maintaining the recognisable exterior profile that marks the Moonen Displacement Series image.

In harmony with the exterior profile,

Principal Dimensions:

Length overall: .									30,00	metres
Length waterline:									27,20	metres
Beam moulded: .									7,00	metres
Beam maximum:									7,30	metres
Draught maximum									2,18	metres
Displacement full	ì	10	t:					18	5 met	ric tons

Performance:

Twin Caterpillar C 18 DI-TA engines rated 448 bkW (600 hp) at 1800 rpm

Maximum speed: 13,0 knots at 10% load Continuous speed: 12,0 knots at 50% load Range at economical speed: 4,000 nm at 9 knots

Tank capacities:

Fuel (4 tanks):	
Fresh water:	
Black water:	
Grey water:	
Used lub-oil:	





Diana Yacht Design has created an underwater body that also combines classic and modern elements, applying best hydrodynamic capacities of both worlds. The round bilged hull form ensures smooth sea keeping abilities, the modern propulsion train generates power at moderate fuel consumption. Comfort aboard is further achieved by extensive sound reduction. The rattle of the propellers rotating just below the hull is minimised by creating a much bigger clearance between the screws and the bottom of the hull. This approach reduces sound at its source, making sound reduction by the use of absorbing materials much more effective. This practice of sound reduction was developed during the conception of the Moonen 84 series, it is applied again with the 97.

The first completed yacht in the Moonen 97 ft. Displacement Series, 'Darsea', was launched in June. The second, to be named 'Sofia', will be splashed by the end of September. The two sister ships look alike, but they are far from identical. Each yacht is being customized by their clients to a high level. 'Darsea' has a fixed bimini top, a single bridge-deck tender crane, a walk-through galley opening to the wheelhouse, two staterooms with double berths and two with twins. The second, Sofia, has a folding bimini top, two smaller tender cranes, an extended bridge-deck overhang, a Ushape galley, and two twin staterooms below. The saloon and dining area configurations are quite different as well.

Technology aboard is identical to the extent of main engines, generators and stabilisation systems. The twin Caterpillar engines generate 600 horse-power each, total propulsion power is rated 1200 horsepower. The four-tank fuel capacity of 27.650 liters ensures a





cruising range of 4.000 nautical miles at a cruising speed of 9 knots. In the aspect of instrumentation, the first and second yacht in the series are quite different. The captain of 'Sofia' chose total security and ordered the yard to install complete back-up systems for 75 percent of all navigation, communication and other technical systems on the yacht.

The contemporary Art-Line interior features ample use of leather, bamboo, panelling and built-in furniture of fine cherry veneers. On 'Darsea' richly classical wengé trim adds drama to the interior, while aboard 'Sofia', lighter more contemporary maple trim creates a contrasting mood. Below, the considerably greater volume has enabled Moonen to augment the four-cabin layout by enlarging the owners' and guests' suites and the crew quarters, increasing stowage for long-range cruising, and adding sufficient fuel for transatlantic capability. Layout is typical Moonen. All staterooms are on the lower deck. Owner and guest rooms are in front of the engine room and crew quarters aft. This offers the crew a comfortable living area, and provides owner and guests with four spacious cabins. A minor disadvantage caused by this lay-out is that the crew have to enter their accommodation either via a stern door on the bathing platform, or climb a ladder that leads up to a door under the stairs of the aft deck.

Both 'Darsea' and 'Sofia' are built to Lloyd's Register Class and MCA certification. The Moonen 97 Displacement is configured to be a grade 'A' steel hulled, twin screw round bilged motor yacht with aluminium superstructure, transom bathing platform, duct keel and double-bottom tanks integral with the hull.



Subcontractors and suppliers of equipment fitted on board the 'Darsea' (partial list)

Alfa Laval Benelux, Breds	fuel oil separator
Angst & Pfister, Rotterdam	
Artline, Arrhem	
Awlgrip Europe, Grobbendonk (B)	
Beekmans rvs, 's-Hertogenbosch	
	doors & hatches
Bloemen de Maas, Niftrik	teakdecks
Blokland Non Ferro, Sliedrecht	anodes
Bosch Rexroth, Rotterdam	
	electronic remote control system
Cosalt, Rotterdam	. life rafts
Cramm Yachting Systems, Berlicum	
	gangway;
	hydraulic
	installation
Econosto Nederland,	
Capelle a/d Ussel	_valves & fittings
Esco Aandrijvingen, Alphen a/d Rijn	- Twin Disc

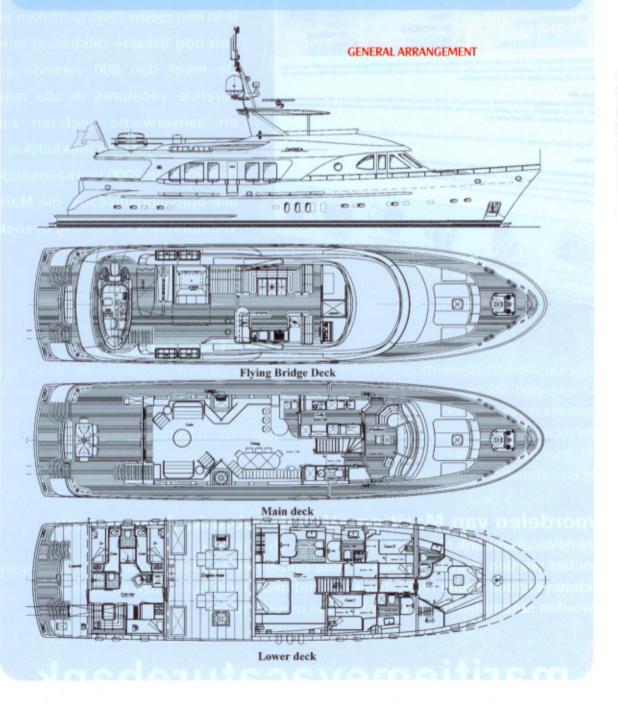
Freeman Marine, Oregon (USA) . Heinen & Hopman, Spakenburg .

gearboxes; Centa flexible couplings pantagraph doors air conditioning &

fresh air

Idromar, Milano III	watermaker
IHC Lagersmit, Kinderdijk	
mo engeranne mostarje	seals incl. ceram
	coated liner
Inoferro, 's Hertogenbosch	stainless steel
Jong Scheepsstoffering, De,	- SOUTH COLD OF DEEP
Elshaut/Drunen	upholstery
Klaver Yachtpainting, Vollenhove	painting
Kroon, Technische Groothandel.	paning
Hoogezand	ehir/e hosekwara-
inodetain	CF-systems
	isolamat
Lloyd's Register of Shipping,	rayramat.
	: hull classification
	ancher winches
Nicoverken Marine Services.	- Milandi William
	: Hamann sewage
Service Control of the Control of th	treatment plant
Nieuwburg & Zn, L.	Statement practic
Krimpen a/d Ussel	sound & thermal
annipul the topolic control of	insulation
Noordenne, Handelmij, B.M. van,	
	steel
Observator Instruments, Ridderkerk	Heaworth window
	wipers
Pon Power, Papendrecht	: Caterpillar main
	engines
Rafa Ship Windows and	
	windows

René v.d. Velden, Amersfoort	
R.P.M., Bodegraven	
	hatch
Hoefnagels, Tiburg	
Rubber Design, Heerjansdam	
	rudder shaft
	installation
SIM Holland, Papendrecht	
	sets
Snijtechniek Brabant, Raamsdonkvee	
	forming
	superstructure
Spraybest Europe, Zwijnenburg	: mist eliminators
SPX Process Equipment NL	
Johnson Pump brand, Assen	
Technica Nova, Breda	: LINN & Loewe
	entertainment
Tijssen Elektro Zeeland, Zierikzee	: electrical
	installation;
	navigation &
	communication
	equipment
Trinoxx, Rotterdam	: hatches and
	manholes
Van Voorden-Promac, Zaltbommel	propellers
VT Naiad Marine Holland, Heerlen	stabilizers
Wortelboer, Rotterdam	: anchors & anchor
	chains





tems, as well as vertical and reversed bow designs. The latter reduces possible slamming induced vibrations during transits in exposed areas.

Opportunities for further improvement include possibilities to optimise roll stabilisation concepts, bow design for comfort, the use of DP systems to avoid roll-resonant and slamming sensitive conditions and the use of main and auxiliary propulsors with a low vibration and noise excitation. The integration of the different control systems onboard may improve the ride of the vessel even further, for example using the rudders to reduce roll and using the fins for steering.

Bearing in mind that innovation is a key focus for yards and designers, MARIN intends to take a leading role by using its expertise to serve the industry as a whole.

I: www. marin.nl

Moonen Shipyards

Moonen Shipyards Room for MORE on the new Moonen 97 2008 Will Be "The Year of the Moonen 97"

Moonen Shipyards builders of a full range of Displacement, Semi-Displacement, and Explorer models, will add two new 97-foot "pocketsize superyachts" to its growing fleet this year. The Moonen 97 is the latest model in the shipyard's acclaimed Displacement Series. It is handsomely shaped by René van der Velden Design, with a round-bilge hullform drawn by naval architects Diana Yacht Design. Both yachts will have interior styling by Art-Line. With steel hull and aluminium superstructure, they also feature Caterpillar engines and zero-speed stabilizers, and are built to Lloyd's Register Class and MCA Certification.



The Moonen 97 is an evolutionary design, derived from two recent yachts by Moonen the custom Moonen 96 Clementine (launched 2005), and the shipyard's most successful model, the Moonen 84 (the eighth will be launched this year). The strong attraction of the Moonen 84 has been its ideal four-cabin layout. The equally strong attraction of Clementine is the considerable volume she offers on a waterline about four meters longer than that of the 84. Combining and rearranging the outstanding features of both designs, Moonen has created the new 97-foot model to satisfy a clear market need for a medium-size, long-range cruiser between its smallest model, the Moonen 72, and its new "Queen of the Fleet," the

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Though the two Moonen 97 are "sisterships," they are far from "identical twins," each being highly customized by their clients. The first one has a fixed bimini top, a single bridge-deck tender crane, a walk-through galley opening to the wheelhouse, three staterooms with double berths and one with twins. The second, Sofia, has a folding bimini top, two smaller tender cranes, an extended bridge-deck overhang, a U-shape galley, and two twin staterooms below. The saloon and dining area configurations are quite different as well.

The contemporary Art-Line interiors feature ample use of leather, bamboo, panelling and built-in furniture of fine cherry veneers. On the first yacht richly classical wenge trim adds drama to the interior, while on the second, lighter more contemporary maple trim creates a contrasting mood.

The first Moonen 97 Darsea has just been launched. Sofia will be splashed in summer. The shipyard has also launched the eighth Moonen 84, Amphitrite, and has further under construction the first 99 Alu semi-displacement yacht, the third Moonen 97, and the largestever yacht to come from the shipyard, the Moonen 124 displacement.

Darsea can be visited at the coming Cannes and Monaco Boat shows.

I: www.moonen.com

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