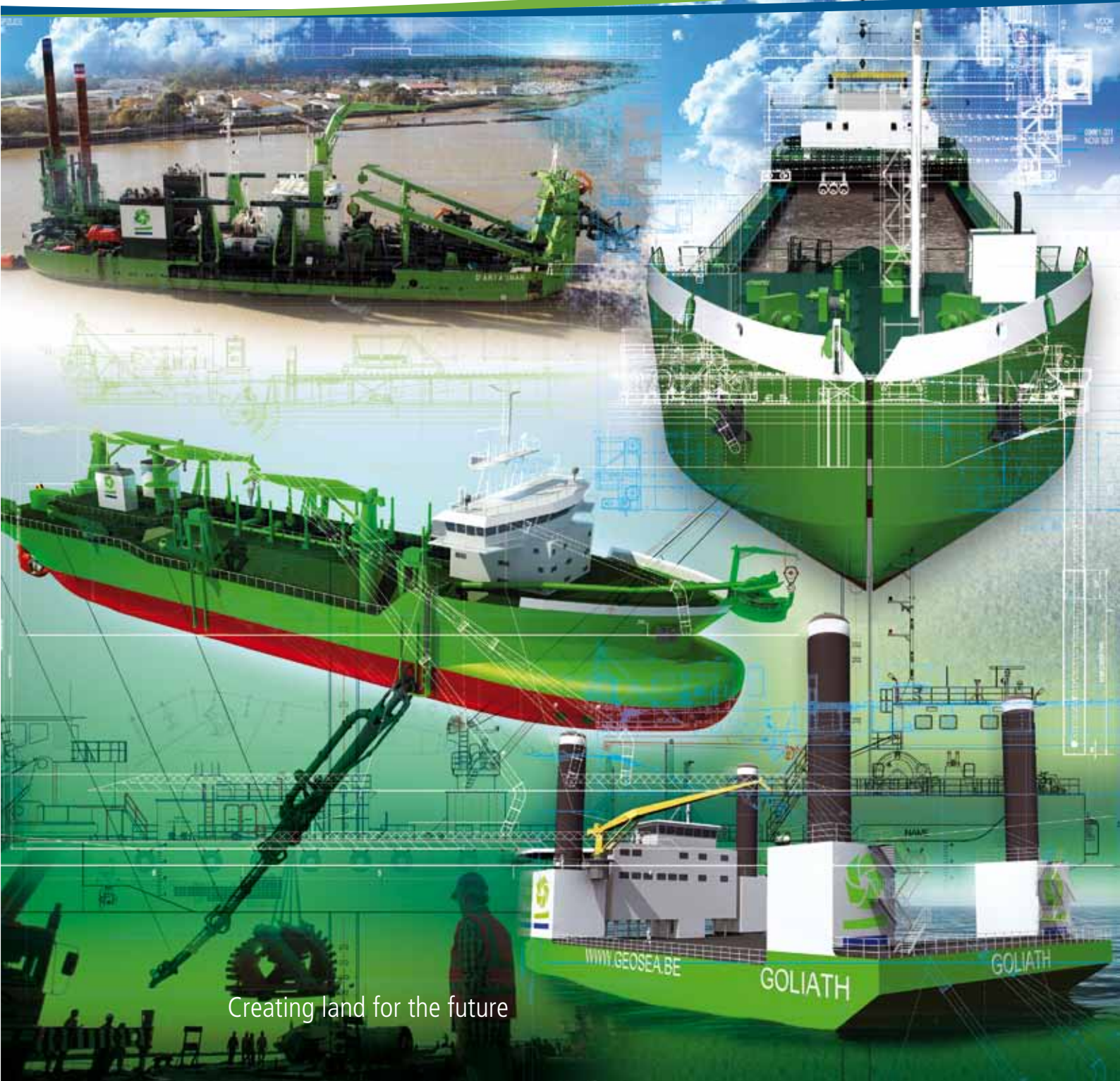




DEME

Dredging, Environmental
& Marine Engineering

New investments highlight
strong multidisciplinary assets




Creating land for the future

DEME invests in the future

Recent, present and upcoming investments have been drastically modernizing and rejuvenating the DEME fleet since the beginning of the 21st century. The innovative and diversified character of the new vessels allows DEME to keep fulfilling its role as a trend setter and technical trail blazer in the dredging and marine engineering industry.

This impressive package of investments reinforces DEME's position on the world market.

 New addition to the fleet since 2005

 Under construction

Seagoing rock cutter dredger "D'Artagnan"		28,000 kW
Trailing suction hopper dredger "Marieke"		5,600 m ³
Trailing suction hopper dredger "Reynaert"		5,600 m ³
Trailing suction hopper dredger "Mellina"		3,650 m ³
Trailing suction hopper dredger "Brabo"		11,650 m ³
Trailing suction hopper dredger "Breydel"		9,000 m ³
Backhoe dredger "Pinocchio"		2,600 kW
Trailing suction hopper dredger "Artevelde"		5,600 m ³
Cutter suction dredger medium segment "Ganga" (ISD)		6,250 kW
Water Injection Dredger "Dhamra" (ISD)	Jetwater flow	12,000 m ³ /h
Multifunctional offshore work platform "Thornton I"		
Jumbo self-elevating platform "Goliath"	Payload	1,600 Tonnes
Next Generation+ Megatrailer		30,000 m ³
Backackter "Samson"- Backhoe dredger with bucket		up to 40.00 m ³
Seagoing rock cutter dredger (MEDCO) with barge loading installation		13,000 kW
Seagoing rock cutter dredger (DI) with barge loading installation		13,000 kW
Two self-propelled split barges "Sloeber" & "Pagadder"		2,750 m ³
Fall pipe vessel "Flintstone"	Loading capacity	19,000 Tonnes
Gravel trailer "Victor Horta"		5,000 m ³

“Next Generation Plus” Megatrailer



characteristics

length	165.00 m
breadth	38.00 m
maximum draught loaded	12.00 m
hopper capacity	30,000 m ³

Owing to its specific shape this Next Generation trailer will have a limited fully-loaded draft allowing a versatile employment. It will be fit for both maintenance dredging in river deltas and for major land reclamation projects involving long-distance sand transport.

Even more strength in the medium-size trailer category with “Artevelde”



characteristics

length	97.50 m
breadth	21.60 m
maximum draught loaded	7.10 m
hopper capacity	5,600 m ³

With the trailer “Artevelde” – a further evolution of our trailer “Reynaert” – DEME has been the first to apply the revolutionary ‘one man operated bridge’. In combination with the environmentally friendly characteristics of the vessel it has become the reference in the medium-trailer segment of the industry.

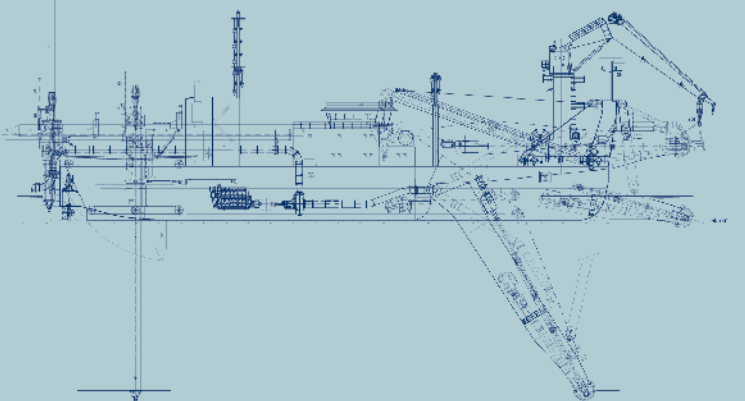
Two powerful seagoing 13,000 kW rock cutter dredgers with barge loading installation



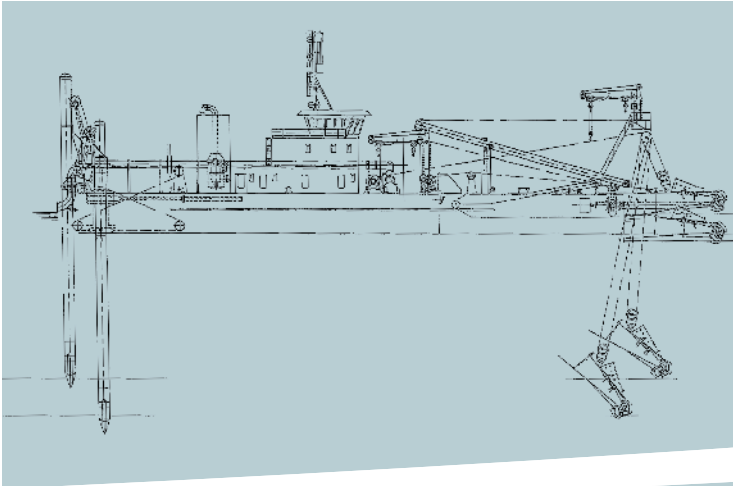
characteristics

length	101.50 m
breadth	21.00 m
dredging depth	30.00 m
total installed power	13,000 kW
power on cutter	2,500 kW

This cutter dredger combines the successful characteristics of the megacutter “D’Artagnan” and the “Al Mahaar”. The state-of-the-art D.I.O.R.I.T.E. steering based on artificial intelligence will be applied amongst others. In doing so, the most efficient cutter both in sand and in rock will be commissioned. This should be an interesting trump card for successful operations in amongst others the Gulf area.



Medium-size cutter suction dredger for the Indian subcontinent and the Middle East

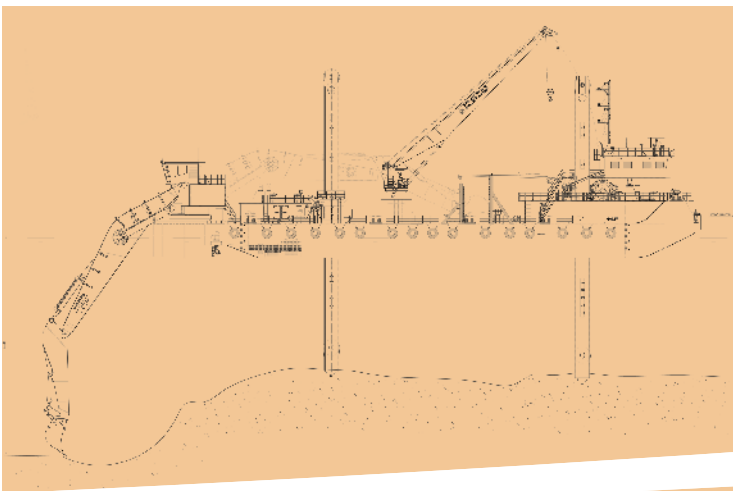


characteristics

length	75.50 m
breadth	14.00 m
dredging depth	22.00 m
total installed power	6,250 / 6,500 kW
power on cutter	750 kW

This type of cutter dredger, that will be built for us by Vosta, ranges between the "Kaveri" (ex-Vlaanderen XI) and the "Cap Martin" that is currently at work in Papua New Guinea. This new cutter strengthens our position in the medium segment. Its working territory will be mainly located on the Indian subcontinent.

A new dimension in backhoe dredgers



characteristics

length	67.00 m
breadth	18.00 m
dredging depth	26.00 m
bucket	40.00 m ³
total installed power	3,854 kW

This new backhoe dredger of the Backacter 110 type is the most powerful mechanical dredger currently available on the market. Both a dredging depth reaching 26 m and a 40 m³ bucket make this dredger a giant in its type. Simply to compare: our heavy-duty backhoe dredger "Pinocchio" has a maximum size bucket of 21.5 m³.

Two large self-propelled split hopper barges

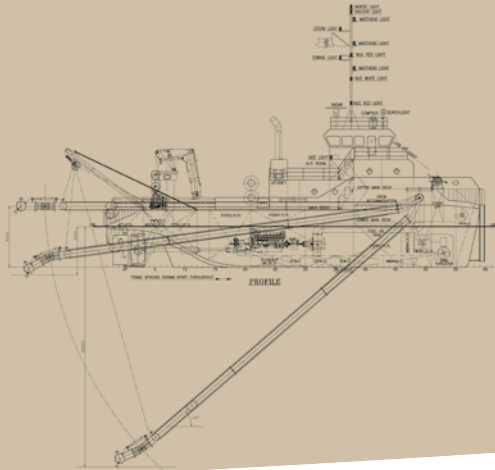


characteristics

length	90.00 m
breadth	17.00 m
draught loaded	5.00 m
hopper capacity	2,750 m ³

These new split barges will be operational in conjunction with our new cutter dredgers with barge loading installation and with our backhoe fleet. Their first intervention will be located on the Panama Canal where they will participate in the widening and deepening works.

An innovative water injection dredger



characteristics

length	31.00 m
beam	10.00 m
jet water flow capacity	12,000 m ³ /h
dredging depth	22.00 m
total installed power	2,970 kW

This type of dredger supplements very well our present maintenance dredging tools. The water injection technology will be applied amongst others to desilt docks and waterways in India in support of the more common maintenance dredging activities in deltas that suffer from important siltation.

Fall pipe vessel "Flintstone" for the oil and gas market



characteristics

length	155.00 m
breadth	32.00 m
draught	7.50 m
loading capacity	19,000 Tonnes
total installed power	13,000 kW

Our offshore specialists from Tideway are building a new high-tech DP-DT fall pipe vessel to cover the growing offshore market together with the existing Rollingstone and Seahorse. This fits perfectly within the broad approach of the DEME Group towards the offshore market with an extensive offer of highly specialised activities and services.

A jumbo Jack-up platform "Goliath" for GeoSea



characteristics

length	55.50 m
breadth	32.00 m
length spuds	80.00 m
payload	1,600 Tonnes
maximum water depth working	50 m

GeoSea adds a jumbo jack-up platform to its present fleet of 7 major platforms. This will allow for increased flexibility and strength in the specialised segment of marine drilling activities, maintenance and rejuvenation of offshore platforms, geotechnical investigations, etc.

DEME's innovative power a driving force for versatile developments

“never done” does not mean “not done” !

Versatility appears to be an important stimulus for high-tech developments. It is not a coincidence that DEME combines in-depth R&D with ingenious ad-hoc inventions. The resources found in a firm dredging tradition in combination with an extensive range of high-tech specialisations allow DEME to engineer and successfully execute complex multi-disciplinary projects. The challenge lays in developing ingenious solutions for often unique and – in their specific technical content – one-off projects.

Some examples :

- The development of the fully automated DP-DT spread pontoon “Bayard II”, with which DEME accurately created a submarine gravel bed that served as a solid foundation for the protective breakwaters (several miles) constructed as part of the new Le Havre Port 2000 container port.



- The development of the dismantlable environmental auger dredge “Pixy” for the successful decontamination of two heavily polluted lakes in the inland of Sweden.



- The development of the “Thornton 1” multipurpose DP-DT pontoon (see below) as an important tool for the multidisciplinary offshore marine works of the C-Power windfarm project on the Thornton bank off the Belgian coast.



Multipurpose offshore work platform "Thornton I"



characteristics

length	76.00 m
breadth	24.50 m
payload	5,300 Tonnes
deckload	15.00 Tonnes/m ²

This ingenious DP-DT multifunctional tool is going to play a multiple part at the C-Power windfarm project:

- accurate sand spreader around the foot of the GBF (Gravity Based Foundations) of the windmills;
- levelling (sweeping) of the spreaded sand layers wherever necessary;
- ballasting the GBF by moving the dry sand stock pile on board the pontoon via a conveyor belt towards the mixing unit and controlled pumping into a 30 m high filling tower;
- applying a scour protection rock layer to depths of appr. 17 m around the GBF foot with an on-board fall pipe system.

Gravel trailer "Victor Horta" for DBM allows a larger share of the marine aggregates market



characteristics

length	100.00 m
breadth	21.00 m
draught loaded	7.80 m
dredging depth	40.00/50.00/60.00 m
hopper capacity	5,000 m ³

The sector of the marine aggregates is driven at present by the expansion in the construction industry. Moreover, owing to the environmentally friendly winning and processing techniques, the application of marine sand and gravel in the construction industry has developed into an actual growing market. This new gravel trailer will be the largest and most advanced gravel trailer available in this specific market segment.



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