

# Cutter suction dredgers KAERIUS and HONDIUS



On June 24th 2004 the Belgian dredging contractor Jan de Nul at Aalst ordered two stationary cutter suction dredgers from the Tianjin Xinhe Shipyard in China. The dredgers are very heavy for their size and have a large freeboard, making them suitable for dredging tough soils and for safe operations in exposed areas.

## Main particulars

Length overall	86.20	m
Length pontoon	65.50	m
Breadth moulded	19.00	m
Depth moulded	4.75	m
Draught	2.95	m
Day accommodation for	12	persons

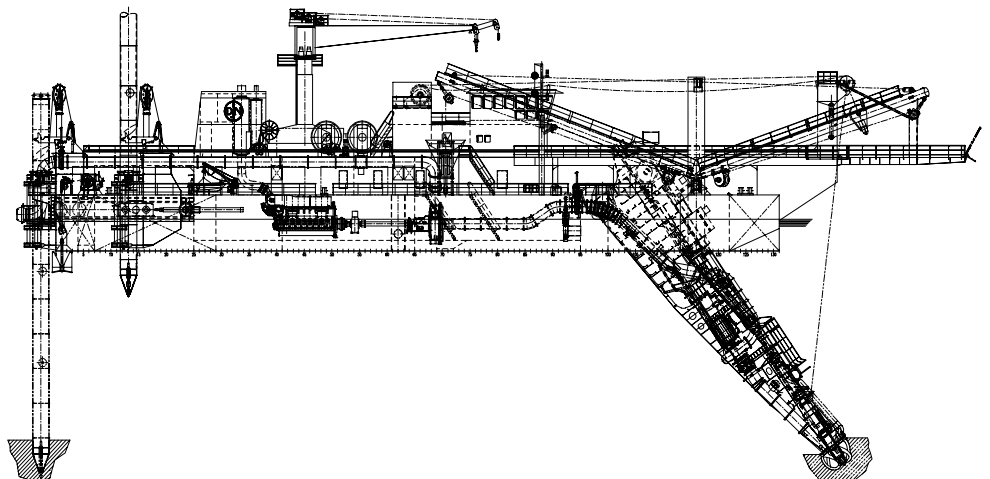
## Dredging performance

Dredging depth	20.00	m
Suction pipe diameter	900	mm
Discharge pipe diameter	800	mm

Cutter power	1x 1 500	kW
Inboard dredge pump	1x 3 400	kW
Submerged dredge pump in cutter ladder	1x 1 250	kW

## Machinery

Main diesel engine driving a dredge pump	3 400	kW
Diesel driven main generator.	5 000	kVA
Diesel driven auxiliary generator.	625	kVA
Total installed diesel engine power	approx. 8 640	kW



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## Dredger's outfit

The cutter suction dredgers are fitted with:

- Two spuds of 32 m length
- Spud carrier with a stroke of 6 m
- Two anchor booms of 350 kN SWL, suitable for 7-tons anchors
- One travelling deck crane with a 200 kN SWL main hoist at 16.5 m outreach.

## VER scope of work

For Jan de Nul VER prepared the basic design of the stationary cutter suction dredgers, together with the detail engineering of the cutter ladder, in close cooperation with the owners.

After the dredgers were ordered from Tianjin Xinhe Shipyard , this yard ordered additional design work from Vuyk Engineering Rotterdam.



Chinese ceremony

Both dredgers at the Yard



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