



SEA BOATS

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5,500m³ Trailing Suction Hopper Dredger



Listing ID - 1265828

Description 5,500m³ Trailing Suction Hopper Dredger

Date 2013

Launched

Length 105m (344ft)

Beam 19m (62ft)

Draft 4.8m (16ft)

Location China

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Price USD 18,590,000

This 5,500 m³ Trailing Suction Hopper Dredger was built in 2013 in China. This vessel was constructed under CCS supervision and approved by CCS class. Dredging the great costal area and navigating in unrestricted area. The vessel is a self-propelled trailing suction hopper dredger with the functions of hopper dumping, rain bowing and pumping ashore.

Principal Dimensions and Characteristics

Year Built: 2013

Length over all: 105m (344ft)

Length between perpendiculars: 85.2m (280ft)

Molded Beam: 19m (62ft)

Molded Depth: 8m (26ft)

Design Draft: 4.8m (16ft)

Dredging Draft: 7.24m (24ft)

Hopper Capacity: 5,586 cubic meters (7,306 cubic yards)

Soil Loading Capacity: 7,260 tons

Maximum Dredging Depth: 30m (98ft)

Two trailing suction pipes with three lifting points

Totally 16 conic hopper bottom doors of 2,460mm (97 inches) and 16 hopper self-emptying doors, arranged in two lines.

Two overflow tubes of DN 1,360mm (54 inches) with a stroke of 3,000mm (118 inches) to adjust the hopper capacity.

Hopper loading time: Approx. 56min.

Time of hopper dumping by hopping door: 5 min.

Time of pumping Ashore by self-emptying system: 70 min.

(hopper filled with medium and fine sand, 1.3t/m³ in density, pumping distance approx. 1,500m <4,921>).

Full Load Navigation Speed: 11.5 knots

Dredging Speed: 2 - 2.5 knots

(two suction pipes dredge, converse water current speed 4 knots)

Accommodations:

Complement: 36P

Main Engines

Total installed Diesel Power: 11,910 kW (15,972 hp)

Propulsion

Engines Make/Model: Ningbo C.S.I./ GN8320ZC, China

Power @ 750 RPM, 2,500 kW x 2, hp x 2

Propellers: Fixed Pitch, 5 Blades

Diameter: 3,700 mm (3,353 inches)

Speed: 174 RPM

Generators

Make/Model: TFXW-450M6-H

Diesel Engines:

Make/Model: Weichai (Chongqing) / CW6200ZC 39

Power @ 1,000 RPM , 540 kW x 3, 724 hp x 3

Emergency Generator

Make/Model: TFXW-120M4-H

Diesel Engine:

Make/Model: Weichai (Chongqing) / WD615.67CD

Power @ 1,500 RPM, 138 kW, 185 hp

Dredge Pumps

Make/Model: Holland Breeman Special Product B.V..

Suction Pipe Diameter: 800 mm, 31 inches

Discharge Pipe Diameter: 750 mm, 30 inches

Hopper Loading: Water flow 11,880 cubic meters/hr (15,538 cubic yards/hr), head 21m (69 feet), pump shaft maximum.
Pump Shaft Max. Power @ 215 RPM, 1,073 kW, 1,439 hp
Pumping Ashore: Water flow 9,146 cubic meters/hr (11,963 cubic yards/hr), head 34m (112 feet), pump shaft maximum.
Pump Shaft Max. Power @ 240 RPM, 1,468 kW, 1,969 hp

Dredge Pump Engines

Make/Model: Ningbo C.S.I. / GA8300ZC16B
Power @ 600 RPM, 2,000 kW x 2, 2,682 hp x 2

Jet Pumps

Make/Model: Feixuan / OTS400-6208
Water Flow: 2,500 cubic meters/hr, 3,353 cubic yards/hr
Head: 80 m, 262 feet

Can be used for diluting mud when dumping and self-emptying, or work in series to provide a head of 150m (492ft) to flush drag head when dredging.

Jet Pump Engines

Make / Model: Jinan diesel / 8190ZIC
Power @ 1,450rpm, 720kWx2, 966hp x 2

Bow Thruster

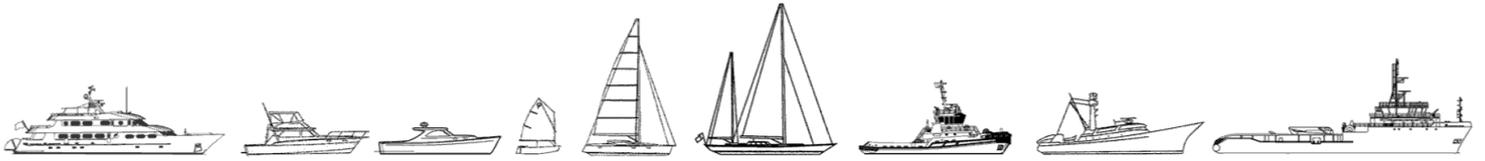
Make/Model: Jiangsu Sixin / TT1300B/BMS-CP
Power @ 384 RPM, 375 kW, 503 hp
Diameter: 1,300 mm, 51 inches
Thrusting Force: 60kN

Cranes

At aft and fore of hopper, there are one 15t x 15 m (49 feet) and one 8t x15 m (49 feet) crane, electrically driven.



The details of all vessels are offered in good faith but we cannot guarantee or warrant the accuracy of this information nor warrant the condition of the vessel. Any buyer should instruct their agents, or their surveyors, to investigate such details as the buyer desires validated. This vessel is offered subject to sale, price change, location or withdrawal without notice.



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