

'Ena Jade'



Gui Jiang Shipbuilding's 51-metre Anchor Handling Tug Supply boat

The 'Ena Jade' is a 51-metre Anchor Handling Tug Supply vessel from China State Shipbuilding Corporation (CSSC)'s Guangxi Gui Jiang Shipbuilding.

The vessel is a steel, twin-screw tug for operation in unrestricted waters and designed for roles including towing barges and rigs, tanker handling and berthing (with its push/pull capabilities), anchor handling duties and the transport of equipment and materials between an offshore barge and the shore.

With a waterline length of 48 metres on a 15 metre moulded beam, a moulded depth of 6.5 metres and a design draught of five metres, the vessel is powered by twin Yanmar 8N330-EN main engines driving twin four-bladed, controlled pitch propellers.

The vessel is classified ABS + A1 (E) + AMS Offshore Support Vessel Fi Fi 1, anchor handling, and is designed for a complement of 20 crew. With a six-tonne bow thruster, the 'Ena Jade' has a bollard pull of 116 tonnes and a designed maximum speed of 13 knots.

The vessel is outfitted with extensive navigation and communication electronics, a range of deck machinery and a comprehensive suite of fire and safety equipment including two exterior seawater firefighting pumps.

Gui Jiang Shipbuilding (CSSC), established in 1969 and located in Wuzhou, Guangxi province, is one of the leading shipyards in southern China and is part of the giant China State Shipbuilding Corporation (CSSC). Gui Jiang employs over 1,100 personnel, including more than 380 engineers and technicians, including a substantial number of senior engineers. Of the facility's 420,000m² total area, some 220,000m² are devoted to shipbuilding.

The yard also possesses computer-aided designed systems and more than 860 sets of machines and equipment including a digitally controlled plasma cutting machine. Three-dimensional computer-generated modelling is so that three-directional interference inspections for hulls, piping, outfits, equipment and electric cables, can be performed easily.

Gui Jiang were awarded ISO9002 certification by the China Xinshidai Quality System Certification Body in 1997, and ISO9001 in 2004.

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'Ena Jade' SPECIFICATIONS

Type of vessel:	AHTS / OSV
In survey to:	ABS + A1 (E) + AMS Offshore Support Vessel Fi Fi 1 Towing and Anchor Handling Service
Builder:	Gui Jiang Shipbuilding, China
Construction material:	Steel
Length overall:	51 metres
Beam (moulded):	15 metres
Draught (design):	5 metres
Draught (max):	5.7 metres
Depth (moulded):	6.5 metres
Main engines:	2 x Yanmar 8N330-EN main engines, each developing MCR of 3,356kW/620rpm, each engine to drive an external fire pump from front PTO through a clutch
Gearboxes:	2 x gearboxes to PTO, each 1,200kW shaft alternator
Propulsion:	2 x four-bladed controllably pitch propellers
Auxiliary engines:	3 x CAT 3408 DITA marine diesel gensets, each rated 300kW, 415V, 3-phase, 50Hz, can be operated in parallel
Emergency generator:	1 x diesel CAT 3056 DITA genset, 84kW, 415V, 3-phase, 50Hz
Side thruster:	1 x bow thruster with a thrust of 6 tonnes, driven by an electric motor to CPP
Steering system:	Electro-hydraulic
Maximum speed:	13 knots (lightship)
Bollard pull:	116 tonnes
Range:	9,000nm at about 12 knots speed
Winches:	Bow winch pull of ten tonnes at 25m/min brake holding; 250t x 6m/min electro-hydraulic waterfall type towing winch, brake holding capacity of 400 tonnes; 2 x electro- hydraulic tugger winches, each 10 tonnes at 12m/min
Capstan:	2 x electro-hydraulic capstans, each of five tonnes at 15m/min
Windlass:	1 x electro-hydraulic windlass with eight tonnes at 10m/min for chain cables
Cranes:	1 x electro-hydraulic telescopic type marine crane with 5t/12m capacity
Deck equipment:	2 x 1440kg anchor; 4 x 140m 30-tonne mooring ropes (polypropylene);
Chain cables:	2 x 275m x 38mm diameter, grade 3, high strength steel, stud link
Liferafts:	4 x inflatable life raft to SOLAS requirement
Rescue boat:	1 x SOLAS-approved rescue boat and gravity type davit
Deck cargo capacity:	210m ²
Fuel capacity:	850m ³
Freshwater capacity:	150m ³
Complement:	20 persons

