

## CRANE BARGE SPECIFICATION



©KenzFigeo 2020\_Lemniscate\_Crane-Barge-Combination

# High Capacity Heavy Duty Lemniscate Crane Barge Combination

**SPECIALLY DESIGNED FOR FLOATING TRANSSHIPMENT OPERATIONS IN HARBORS & COASTAL WATERS**

Two ambitious and innovative companies each experienced in their own field of expertise; Conoship International (ship design & engineering) and KenzFigeo (cranes & offshore equipment design and manufacturing) have teamed up to offer a cost efficient transshipment crane barge combination to meet the specific needs of the dry bulk & break bulk transshipment market.

The Conoship designed transshipment barge provides a safe & efficient vessel for worldwide operation in harbors, inland and coastal waters. The tailor-made design ensures 360° visibility from the office/control room amidships in accordance with ILO-MLC 2006 regulations. The design guarantees easy access for maintenance of all equipment and structural items whilst providing maximum comfort in modern, durable living quarters and work spaces.

The high quality KenzFigeo designed Lemniscate crane for floating applications in harbor and/or coastal conditions, has given the company a prominent position in the industry, and still is very popular. It offers counter balanced high capacity transshipment of up to 2,000 tonnes per hour, whilst maintaining stability and buoyance of the barge. The Lemniscate crane is the best choice for high volumes transshipment capacity.

An efficient & environmental transshipment solution with the right balance between operational and capital costs!

For more information please contact: Robert de Rijcke at KenzFigeo, email: [r.derijcke@kenzfigee.com](mailto:r.derijcke@kenzfigee.com)

## CRANE PERFORMANCE

Technical specification	
Capacity	36t grab duty   40t hook duty
Max hoisting speed @ max SWL	120 m/min @ 36t grab duty   60 m/min @ 40t hook duty
Slewing speed	1.4 rpm max outreach   2.0 rpm min outreach
Slewing range (continuous)	360°
Transshipment capacity	up to 2,000t p/hour
Luffing speed	60 m/min
Luffing time	50 s (minimum to maximum radius)
Outreach	13-43 m

## ENVIRONMENTAL CONDITIONS

Operational temperature	-20° C to +45° C
Design wind speeds	SWH 2.0 m in coastal conditions
Sailing conditions	Max SWH 3.0 m
Maximum heel/trim	2°/3° or 3°/2°

## CLASSIFICATION

Classification	According to FEM 1.001
Crane	Up to 2 000 000 cycles (U7/Q4/A8)
Hoisting	Up to 50 000 running hours (T8/L4)
Luffing	Up to 50 000 running hours (T8/L4)
Slewing	Up to 50 000 running hours (T8/L4)

## GENERAL

Driver position	Full view into the hold during throughout the operation
Third party design approval	According to Bureau Veritas or Lloyds
Balance & Stability	Optimal through counter balanced double boom Lemniscate principle
Availability	Constant demand of second Figuee Lemniscate cranes

## BARGE DIMENSIONS

Length overall x Breadth moulded	57.80 x 23.50 m
Depth to main deck	4.50 m
Draught design	2.70 m
Working deck area	800 m <sup>2</sup>
Deck covering (wood)	95 m <sup>2</sup>
Design load working deck	10.0 t/m <sup>2</sup>
Gross tonnage	< 3,000 t

## TANK CAPACITY

Fuel oil (MGO)	± 220 m <sup>3</sup>
Ballast water	± 1,200 m <sup>3</sup>
Potable water	± 135 m <sup>3</sup>
Sewage	± 65 m <sup>3</sup>
Lubrication oil	± 10 m <sup>3</sup>
Dirty oil / sludge	± 10 m <sup>3</sup>
Bilge water	± 5 m <sup>3</sup>

## AUXILIARY EQUIPMENT

Main diesel generator	2,095 bkW
Auxiliary diesel generator	85 bkW
Shore connection (UPS)	440V, 50 Hz

## DECK LAY-OUT

Anchor system foredeck	Two (2)
Anchor system aft deck	One (1)
Towing brackets	Three (3)
Fender system	Rubber / Roller
Life rafts	Two (2)
Workboat(s)	One (1)
Deck covering (wood)	95 m <sup>2</sup>

## ACCOMMODATION

Complement	25 persons
Cabins	One (1) single
	Twelve (12) double

## NAUTICAL & COMMUNICATION EQUIPMENT

SOLAS requirements	
One (1) man bridge operation	

