

# TECHNICAL DATA REPORT

## ENMICO 78 Feet CREW BOAT

NOVEMBER 2011  
Noah Marine Industry Corporative

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شرکت تعاونی صنایع دریائی نوح جنوب  
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**I. GENERAL**

**1.1. Builder**

Enmico (Noah Marine Industry Cooperative)

**1.2. Designer**

Thomas Wiberg (Wiberg Design, Sweden)  
Adam Santoso (Enmico, Abadan)

**1.3. Type of Vessel**

Crewboat 23.6 meter (78 feet)

**1.4. Main particular**

1.4.1. LxBxD

23.6 x 5 x 2.75

Height at fore cabin section 7 meter

1.4.2. Draft

1.1 meter

1.4.3. Displacement

50 ton at DWL

37 ton at light ship

1.4.4. Dead Weight

80

1.4.5. Gross Tonnage

$V$  (Total Volumetric Dimension from keel to the mast) = 275 m<sup>3</sup>

$K = 0.2 + 0.02 \text{ Log } V$

= 0.2 + 0.028

= 0.228

$GT^* = K \times V$

= 0.228 x 275

= 62.7

\*according to International Convention on Tonnage Measurement Ships.

1.4.6. Net Tonnage

$V_C$  (Total Volumetric Cargo space Dimension) = 78 m<sup>3</sup> \*

$K_2 = 0.2 + 0.02 \text{ Log } V$

= 0.2 + 0.0378

= 0.237

$NT = V_C \times K_2$

= 18.5

(\*including open deck area with allowable stacking height 2 meter)

- 1.4.7. Max Speed Full Load  
26 Knots
- 1.4.8. Service Speed (full Load)  
22 Knots
- 1.4.9. Cruising Range  
719 nm at (1800 rpm crank shaft @ 22 Kn/ 80% power)
- 1.4.10. Endurance  
32 hour (8500 lt Fuel Used /1000 lt fuel reserve)
- 1.4.11. Compliments (crew & Passengers)
  - Passenger = 67 pax
  - Crew = 6 pax
  - Total = 73 pax
- 1.4.12. Total Installed Power
  - Main Generator = 47 KW
  - Auxiliary = 25 Kw
  - Total = 72 Kw

## 1.5. Deck Cargo

### 1.5.1. Deck Cargo Capacity

**30 Ton**

### 1.5.2. Deck Clear Area

Open Deck = 55 m<sup>2</sup>  
 Upper Accommodation deck = 35 m<sup>2</sup>  
 Lower Accommodation deck = 28 m<sup>2</sup>

### 1.5.3. Deck Strength (please refer to drawing EN-78-DX-1)

Max load for allowable deck deflection (1 mm) = **3900 Kg/m<sup>2</sup>** = 38653 N/m<sup>2</sup>

## 1.6. Tank Capacity

- 1.6.1. Cargo Fuel Oil  
9500 Liters (FOT)
- 1.6.2. Cargo Fresh Water  
3500 Liters
- 1.6.3. Service Fuel Oil  
250 liters x 2 (daily Tank)
- 1.6.4. Potable Water  
1400 lt

## 1.7. Classification

- 1.7.1. Classification Society