

Sheerlegs

**ITALIA**

1000 tons lifting capacity

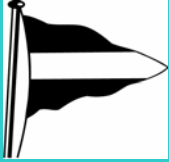


22.03.2007 10:50

The Sheerleg ITALIA is designed to meet the general requirements of the marine industry: salvage and wreck removal, renovation of port sites, relocation of harbour cranes, storage tanks, transportation and assembly of ship sections , providing assistance in tunnel construction , assembling bridge sections, transportation and assembly of steel and concrete structures, offshore activities, unloading vessels, loading and unloading heavy general cargo. With 100 years experience NERI is the oldest company still active in the floating sheerleg sector in ITALY. NERI is able to provide its customers with tailored services 24 hours a day, 7 days a week, and guaranteeing expertise, quality and safety. By constantly adapting to the latest developments in the market and technological advancements, NERI maintains its position as a professional organisation serving customer requirements to the highest standards. NERI is based in the port of Livorno (West Central Italy) and operates other national and international ports.

**FRATELLI NERI**

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*La Spezia (Italy)-FINCANTIERI Shipyards lifting accommodation structure (800 tons) on board the Italian Navy Aircraft Carrier "CAVOUR"*

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### MAIN CHARACTERISTICS

Length O.A.	72,42 meters
Breadth Moulded	30,00 meters
Depth Moulded	5,3 meters
Max. Draught (full load)	2,8 meters
Draught Light	1,37 meters
GRT-Net T	3703 -1110

### REGISTRATION

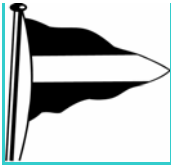
Type of Vessel	Sheerlegs
Year built	January 1972
Builder	Hakodate Dock Co. ltd (Japan)
CALL Sign/RINA No.	IWSZ / 69066
Port of Registry	Livorno nr. 9909

### PERFORMANCE

MAIN HOIST	Nr 2 x 500 Tons = 1000 Ton SWL Horizontal distance between hull edge and hoist C.L. = 21 mt Hoist's eight above sea level = 53 mts Hoist Speed = 1 mts/min
SECONDARY HOIST	Nr 1 x 200 ton SWL Horizontal distance between hull edge and hoist C.L. = 26 mt Hoist's eight above sea level = 61 mts Hoist speed = 2 mts/min The main and secondary hoisting systems are operated from remote control room, where there are located: switches board, control panel with levers, electronics load indicators, hydraulic pressure gauges for main, secondary and servo Hydraulic-oil systems
TANK CAPACITIES	Balancing Ballast = 3.538 cub. mt. Fresh Water = 137 cub. mt. Fuel (Gasoil) =
TRIMMING PUMPS (BALLAST TRANSFER)	Nr. 2 E/Pumps EBARA Type 300 SZM 1200 cub. Mt./hr at 7 mt head Driven by E.Motor 37 Kw- 220 V- 60 Hz

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**HOISTING AND WARPING  
HYDRAULIC SYSTEMS**

The nr. 2 main diesel generators driving via nr. 2 reduction-gear boxes SHINKO-ZOKI:

- nr. 9 Hydraulic pumps EBARA OHS 32-9F for winches systems
- nr. 2 Hydraulic pumps EBARA PLB 3055 for brakes and servo –control systems

**WINCHES FOR MAIN  
500 Ton HOIST**

- Nr. 2 winches type HAKODATE driven by nr. 4 Hyd. Motors EBARA OHM 105 FSE.

- Nr. 1 + 1 drum with a capacity of 1400 mt. diam. 50 mm. steel wire rope.

Blocks: ASAHI with nr 22 pulley diam. 1000 mm and nr. 10 pulleys diam 1000 mm

**WINCH FOR SECONDARY  
200 Ton HOIST**

- Nr. 1 winch type HAKODATE driven by nr. 2 hydr. Motors EBARA OHM 105 FS2

- Nr. 2 twin drums with a capacity of 610 mt diam. 40 mm steel wire rope.

Blocks: ASAHI with nr 8 upper pulleys diam. 800 mm and nr. 7 lower pulleys diam. 800 mm

**MACHINERY**

Main Engines for main and secondary hoist  
Gen Set

- Nr. 2 x Diesel Engine Shinko Type S 818SI – 4 stroke 8 cyl. In Line HP 725 at 1350 rpm

- Nr. 1 x diesel engine Shinko Type S 617 SCE- 6 Cyl in Line HP 300 at 1200 RPM. Driving nr 1 alternator SHINKO-DENKI type FUKI-A-680. 250 KvA-3 x 225 V-60 Hz

- Nr. 1 x diesel engine CATERPILLAR type 3304-4 cyl 170 HP at 1800 rpm driving nr 1 alternator

**ACCOMMODATION**

Accommodation

On the upper floor of superstructure :

Nr 1 one berth cabin with sanitary and shower room

Nr 3 one berth cabin

On main deck accommodations:

6 x 1 berth cabin; 2 x 2 berths cabin.

Large mess room, galley, store-room, sanitary and showers room, laundry and deck store

Airconditioning

Fully air-conditioned, temperatures as per ISO standards (Heated and cooled),

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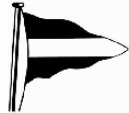
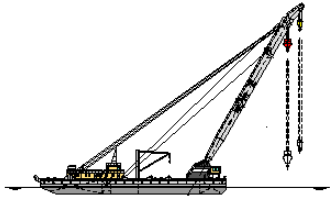




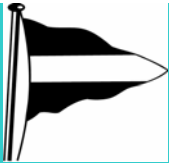
# Sheerlegs ITALIA

1000 tons lifting capacity

<b>Sheerleg "ITALIA"</b>			
<u>PRINCIPAL DATA</u>			
YEAR OF CONSTRUCTION	1972		
CLASSIFICATION	RINA		
<u>PRINCIPAL DIMENSIONS</u>			
LENGTH	72 mt	GROSS TONNAGE	3703 ton
BREADTH	30 mt	BALLAST WEIGHT TANK	3536,97 mc
DEPTH	5,30 mt	FRESH WATER TANK	137,01 mc
DRAFT LOAD	2,80 mt	FUEL OIL TANK	131,53 mc
DRAFT NO LOAD	1,37 mt	ACCOMODATION	n°22 PERSONS
<u>ENGINE DEPARTMENT</u>			
N°1 MAIN ENGINE (CRANE)	725 PS x 1350 rpm		
N°2 MAIN ENGINE (WINCH)	725 PS x 1350 rpm		
N°3 MAIN ENGINE	300 PS x 1200 rpm		
AUXILIARY ENGINE	150 PS x 1800 rpm		
<u>CRANE PRINCIPAL ITEMS</u>			
	MAIN HOIST	ASSIST. HOIST	
RATED LOAD	1000 tons (n°2x500)	200 tons (n°1)	
TEST LOAD	1050 tons	250 tons	
OUT REACH	h = 21 mt	h = 26 mt	
HOISTING HEIGHT	h = 53 mt	h = 61 mt	
HOISTING SPEED	1.0 m/min	2.0 m/min	

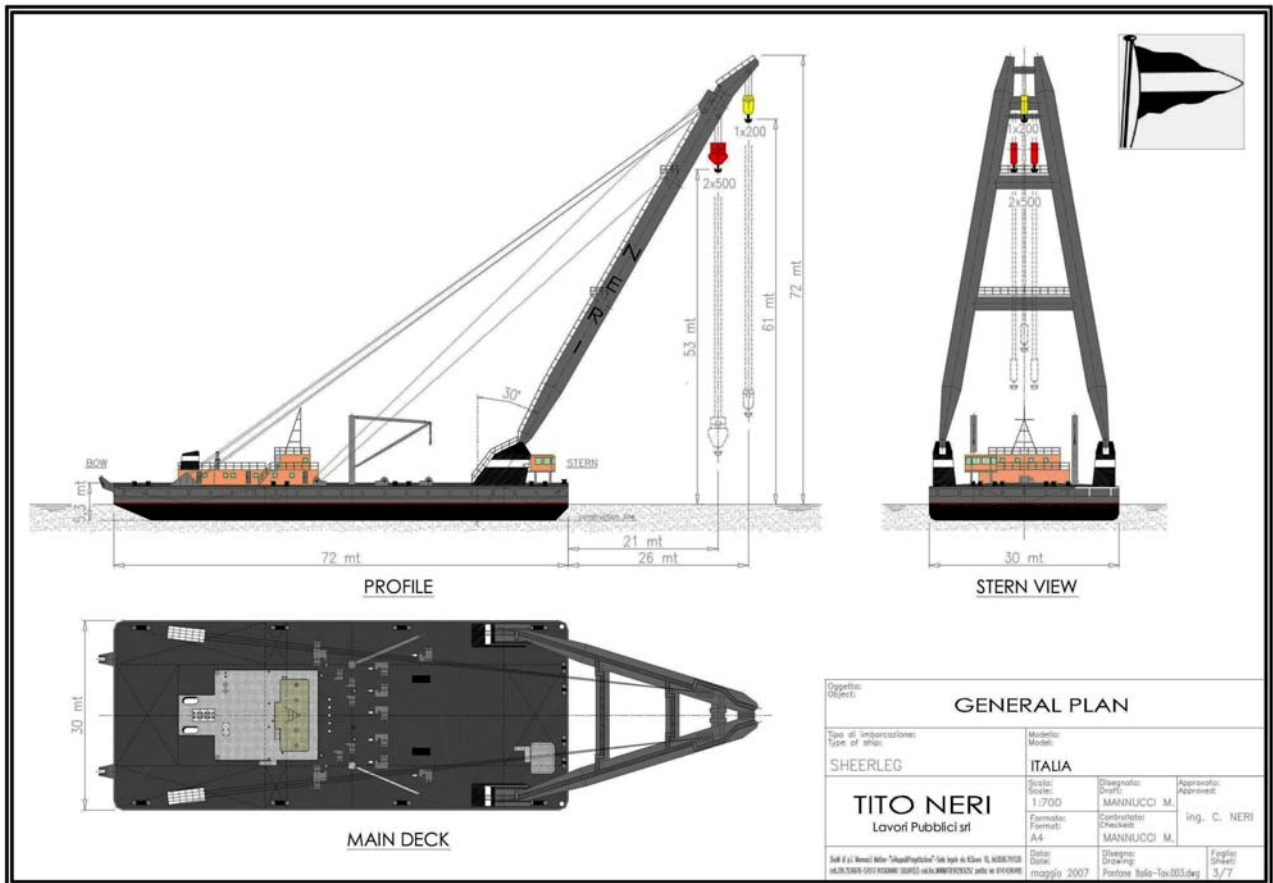
<b>MAIN CHARACTERISTICS</b>			
<b>Object:</b> SHEERLEG		<b>Model:</b> ITALIA	
<b>Type di imbarcazione:</b> Type of ship:	<b>Scale:</b> Scale:	<b>Disegnato:</b> Drawn:	<b>Approvato:</b> Approved:
		MANNUCCI M.	Ing. C. NERI
<b>TITO NERI</b> Lavori Pubblici srl		<b>Formate:</b> Formed:	<b>Controllo:</b> Checked:
		MANNUCCI M.	
<small>Aut. di Impresa n° 100/1972 del 10/10/72 - 10/10/72 - 10/10/72 - 10/10/72</small>		<b>Disegnato:</b> Drawn:	<b>Formate:</b> Formed:
		Maggio 2007	Portofino Italia-lev.002.dwg 2/7



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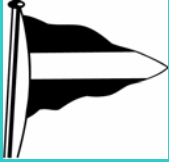


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Sheerleg "ITALIA"										
CHART OF THE OUTREACH CAPACITY OF THE CRANE FROM BOW AND HEIGHT OF THE HOOKS FROM THE WATERLINE										
DESCRIPTION	TONNAGE AT HOOK tons	BALLAST tons	EQUIPMENT %	DISPLACEMENT tons	IMMERSIONS		MAIN HOOKS		SECONDARY HOOKS	
					AFT mt	FWD mt	OUTREACH mt	LIFT UP mt	OUTREACH mt	mt
SHEERLEG FREE	0	0	0	2850	0,40	2,34	25	48	30	57
SHEERLEG WITHOUT TONNAGE WITH BALLAST	0	1835	100	4971	3,60	1,16	21	53	26	61
SHEERLEG WITH TONNAGE OF 200 tons AND BALLAST	200	1835	100	5171	3,23	1,72	21,8	51,8	27	60
SHEERLEG WITH TONNAGE OF 500 tons AND BALLAST	500	1835	100	5471	2,72	2,50	23	50	-	-
SHEERLEG WITH TONNAGE OF 1000 tons	1000	1835	100	5971	1,79	3,88	25	47	-	-

DATA COLLECTED FROM THE BOOK "INSTRUCTIONS ON STABILITY"

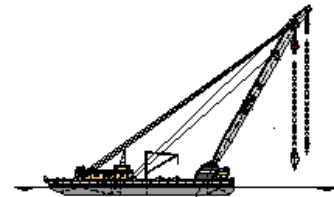
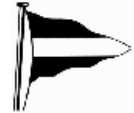


CHART n°1			
Type of crane: Type of ship:		Model:	
SHEERLEG		ITALIA	
TITO NERI Lowall Publitalia		Scale: —	Designator: Dante
		Contract: Fornaci	Manufacturer: WANNUCCI N.
		Code: A4	Director: WANNUCCI N.
Date: 1977		Country: Italy	Approval: Ing. C. NERI
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<b>Sheerleg "ITALIA"</b>				
(SHEERLEG 100% EQUIPPED AND WITH 1836 TONS OF BALLAST IN THE STERN TANKS)				
TONNAGE ON MAIN HOOK tona	STRADDLE FROM BOW mt	HOOKS LIFT UP FROM WATERLINE mt	SHEERLEG IMMERSION	
			AFT mt	FWD mt
1000	25	47	1,79	3,88
875		48	2,03	3,53
750	24	49	2,26	3,18
625		50	2,49	2,84
500	23	51	2,72	2,50
375		52	2,95	2,18
250	22	53	3,17	1,82
125			3,39	1,49
0	21		3,60	1,16

DATA COLLECTED FROM THE BOOK "INSTRUCTIONS ON STABILITY"

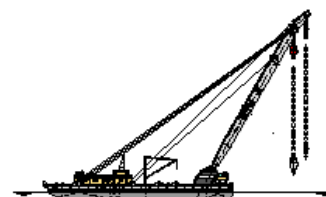
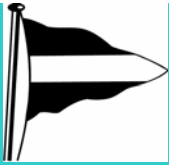


CHART n°2			
Type of crane: Type of ship:		Model:	
SHEERLEG		ITALIA	
TITO NERI Lowall Publ. srl		Scale: Book:	Designer: Dwarf:
		Comerco: Fornici:	WANNUCCI N.
		A4	Director: WANNUCCI N.
Ing. C. NERI		Date: Date:	Design: Drawing:
		single 2007	Problema Italia - Tav.005.dwg
			Sheet: Sheet:
			5/7

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