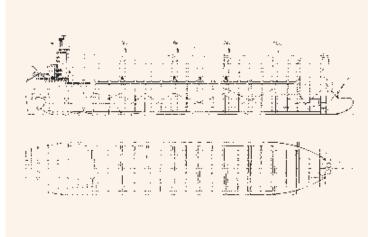
# **Container Vessel**

2,259 TEU





Builder / Yard No.: Shipyard 3. MAJ / 665

Name: m/s **ZRIN** 

Kaiser Navigation Corp. / Liberia Owner / Flag:

Sister vessels: 664, 666 Designed by: Shipvard 3, MAJ Delivered: 1994

The vessel is designed for world wide service as container vessel suitable to carry standard and reefer containers in holds and on upper deck.

The vessel is designed for transportation of ISO standard containers of 20' x 8' x 8'6" or 40' x 8' x 8'6".

Classification: BV; I 3/3 E, & Container Ship, Deep Sea, AUT, PORT

Lenght over all	201.41 m
Length btw perp.	189.00 m
Breadth moulded	32.24 m
Depth moulded	18.69 m
Draught design	11.02 m
Draught scantling	11.82 m
Deadweight, at draught of 11.0 m	30,887 t
Deadweight, at draught of 11.8 m	35,071 t

Main engine: 3. MAJ - SULZER 6 RTA 72 16.440 kW / 94 rpm Trial speed, 85% MCR at draught of 11.02 m 19.33 knots

#### **Capacities**

Containers (20' x 8' x 8'6''):holds	1,018 TEI
hatch covers upper deck	1,241 TEU
Total	2,259 TEI

## **Provisions**

Heavy fuel oil Diesel fuel oil	3,333 m <sup>3</sup> 222 m <sup>3</sup>
Lubrication oil	159 m <sup>3</sup>
Fresh water	445 m³

Ballast water 10,762 m<sup>3</sup> HFO consumption of M.E. 56.3 t / 24 hours Crew complement Reefer sockets: 138 reefer sockets in hold No. 3 and 162 reefer sockets on deck

#### Cargo equipment

· Hatch covers:

central 13.40 x 10.70 m Nos. 1 & 2 side 13.40 x 5.54 m Nos. 3, 4 & 5 central 13,40 x 10,70 m side 13.40 x 8.29 m

• Four electro-hydraulic single deck cranes of 392 kN SWL

at 32 m.

#### Container lashing

- Fixed cellular guides.Removable cellular guides for 20' cont.
- · Fixed lashing equipment on hatches.

#### Steam plant

- One vertical fired boiler, 7 bar, cap. 2 t/h steam.
- One exhaust gas economizer, 7 bar, cap. 2 t/h steam.

#### Auxiliary engines plant

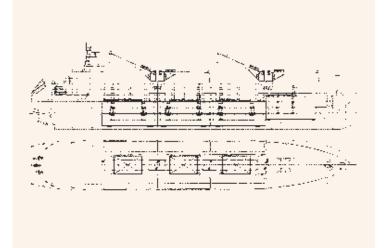
- Four el. gen. sets, 60 cycles, 1,350 kVA D.M.driven each.
- One emergency el. generator / 60 cycles, 220 kVA, D.M. driven.

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# **Reefer / Container Ship**

600,000 CU.FT





Builder / Yard No.: Shipyard BRODOSPLIT / 404 Name: m/s LADY KORČULA Owner / Flag: Lady Navigation Inc. / Lberia

Sister vessel: 403 Delivered: 2002

Single screw diesel engine driven Reefer / Container Vessel with bulbous bow, transom stern and long forecastle. Living quarters including navigation bridge and engine room located aft. Double bottom / double side tanks and peak tanks intended for segregated ballast. Cargo space divided into four (4) holds and eight (8) refrigerating compartments with separate air cooling. Structural steel and profiles made of mild steel.

Intended cargoes: frozen meat, fruit include banana, palletised cargo, containers.

Classification:	LR; 100 A1, LMC, UMS, RMC
	(CA) II SCM

Length over all		155.25 m
Length btw perp		146.00 m
Breadth moulded		23.40 m
Depth moulded		13.20 m
Draught design		7.80 m
Draught scantling		9.50 m
Deadweight at design dra	aught	8,500 t
Deadweight at scant. dra	aught	12,800 t
Main engine:	BRODOSPLIT -MAN-E	8&W 7L60MC
SMCR	13,440 k	W / 123 rpm
Trial speed at 90% SMCF	R, on design draught	21.6 knots
Reefer plugs		88 pcs.

#### Capacities

Cargo holds, bale	16,713 m
Segregated ballast tanks	2,407 m

#### Provisions

Heavy fuel oil	1,657 m <sup>3</sup>
Diesel fuel oil	122 m <sup>3</sup>
Fresh water	170 m <sup>3</sup>
Main engine consumption: Cruising range Crew complement	49.9 t/day 16,000 nm

#### **Painting**

- Cargo holds Bitumenous
- Water ballast tanks Coal tar epoxy
- Under water hull Coal tar epoxy + SPC
- Deck and exposed superstr. epoxy

#### Cargo equipment

- Cargo hatch No. 1
   Cargo hatche Nos. 2-4
   6.16 x 6.30 m
   12.82 x 8.00 m
- Cargo gears 2 x twin 20 t
- Cargo holds: 16 compartments, 8 indipendent cooling zones.
   Al-gratings on tanks top and all decks.
- Refrig. Plant: R22 indirect expansion system at primary refrigerant and brine (CaC12) as secondary fluid.

#### **Auxiliary engines plant**

- Four diesel-generator sets, 1,280 kW, 900 rpm, 60 Hz
- One emergency generator, 96 kW, 1,080 rpm, 60 Hz

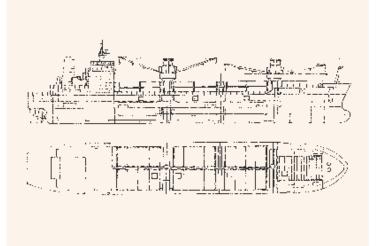
#### **Heating plant**

 One composite oil fired boiler oil fired section capacity 2.3 t/h, economizer section 1.5 t/h.

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430.000 CU.FT / 250 TEU





Builder / Yard No.: Shipyard BRODOSPLIT / 363
Name: m/s ATLANTIC FRIGO
Owner / Flag: Fresh Water Marine Inc. / Panama

Sister ship: Yard 364 Delivered: 1989, 1990

Single screw fast refrigerated vessel for world trade suitable for transport of frozen meat, fish, bananas, other tropical fruit cargoes and containers as well.

The vessel has four (4) continuous decks and forecastle.

Classification: LRS; +1-100 A1, +1-LMC +1-RMC (-28°C), UMS. HR: +1-100 A1-1-HL-At

₩ M1-AUT1 R +.

 Length over all
 143.00 m

 Length btw perp.
 136.00 m

 Breadth moulded
 22.50 m

 Depth moulded-main deck
 13.20 m

 Draught, design / scantling
 7.20/9.15 m

 Corresponding deadweight
 6,160/11,000 tons

 Gross tonnage
 abt. 10,370

Main engine: BRODOSPLIT-MAN-B&W 6L60MC SMCR 8,340 kW/117 rpm Trial speed at 85% MCR and draft of 7.2 m 19.5 knots

#### **Capacities**

Cargo holds	12,000 m
Containers, total	250 TE
Flooring useful area	5,250 m

## **Provisions**

Heavy fuel oil	1,320 m
Diesel fuel oil	55 m
Lubrication oil	80 m
Fresh/feed water	210 m

Ballast water tanks:1,860 m³Cruising range at 85% MCR20,000 n.mM.E. daily fuel oil consumption27.5 tonsCrew complement28

#### Cargo hatch covers and handling equipment

The hatch covers an weather deck are of folding hydraulically driven type except in way of hold No. 1 which is of vertical stacking hydraulically driven type.

Banana hatch 2.5 x 2.5 m also provided. Loading of covers 1,75  $t/m^2$  and / or two tiers of TEU/FEU containers (3 tiers height with empty containes except in way of No. 1).

The tweendeck hatch covers suitable for this type of vessel and provided with banana hatches. The covers are of electric sliding or stacking type.

Four (4) side loading doors provided on port side. Two twin electro-hydraulic cranes 2x160 kN SWL The cranes in twin operations have 320 kN SWL

#### Cargo refrigerating plant

The cargo refrigerating plant designed for Freon 22 direct expansion employing individual cooler/fan assemblies in the fan level for each hold. The machinery to have ample capacity for maintaining the lowest temperature of -28°C in all spaces, or higher temperature for fruit chilled goods up to +12.5° C during tropical conditions at an ambient temperature of  $40^{\circ}\text{C}$  and sea water temperature of  $32^{\circ}\text{C}$ .

Ductless air circulation system is provided with an air flow in ship's longitudinal direction.

The installation consists of 4 screw compressor units fully automatic.

#### Steam plant

- . One oil fired boiler of 1.7 t/h at 6 bar.
- One exh. gas economizer of 1.3 t/h at 6 bar.

## **Auxiliary engines plant**

- Four el. gen. sets, 60 cycles, 780 kW D.M. driven each.
- One emergency diesel generator 100 kW, 60 cycles.

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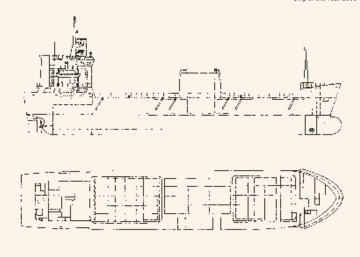
# **Pallet Carrier**

3,400 DWT

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Significant Ship of 1990 Ship of the Year 1990



Builder / Yard No.: Shipyard KRALJEVICA / 483, 485, 487

Name: m/s **LYSFOSS** 

Siminsen & Slang A/S, Norway 1989, 1990, 1991 Owner / Flag:

Delivered:

Classification: DNV; + 1A1, Pallet Carrier, Ice C, E0; Rules and Regulations: Solas 1974/81/83; ICLL 1966;

COLREG 1972; MARPOL 1973/78;

UMS tonnage 1969;

NMD (Norwegian Maritime Auth.)

Main characteristics		Provisions	
Length over all	90.00 m	Heavy fuel oil	215 m³
Lenght btw perp.	82.80 m	Diesel fuel oil	58 m <sup>3</sup>
Breadth moulded	17.00 m	Lubrication oil	10 m <sup>3</sup>
Depth moulded, maindeck	10.60 m	Fresh water	65 m <sup>3</sup>
Depth tweendeck	5.90 m	Ballast water	1,500 m <sup>3</sup>
Draught scantling	5.85 m	Consumption HFO at M.E. CSR	11.5 t/24 hours
Deadweight, at draught 5.85 m	3,400 t	Cruising range (speed 12.3 kts, 200 t HFO)	6,000 n.m.
Gross tonnage	3,900	Crew complement	8
Net tonnage	2,400	The LYSFOSS is general cargo, paper and containers carrier,	
Main engine:	Wartsila 6R 32E	with single screw, twin deck, two cargo hold	s, and high ma-
MCR	2,460 kW/750 rpm	noeuvering possibilities, equiped as follows	:
Trial speed	13 knots		

7.400 m<sup>3</sup>

20 FEU + TEU or 46 TEU

- 2 x 2 pairs of flush folding covers on each of two hatches One side door

  - Two pallet lifts
     Forklifts and lashing fittings
  - One bow thruster, CP

#### **Auxiliary plant**

- One shaft generator, 50 cycles, 680 kVA
- Two el. Gen. Sets, 50 cycles, 360 kVA D.M. driven each.

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**Capacities** 

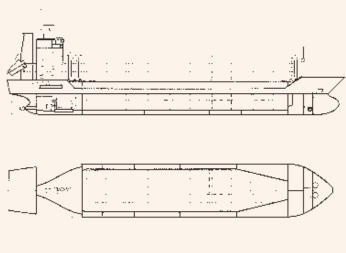
Cargo holds

**Containers** Main deck

# **General Cargo / Container Carrier**

5,700 DWT





Builder / Yard No.: Shipyard KRALJEVICA, Croatia / 489, 490
Name: m/v STELLA PACIFIC & m/v STELLA ADRIATIC
Owner / Flag: LIDO BULKERS AB – Skarhamn – Sweden
Delivered: 1992 / 1993

Classification: DNV: +1A1 - ICE 1 A.E.O.HC. FIN/SW/ICE Class 1A

General cargo/container carrier

Length over all:	104.40 m
Length between p.p.:	96.32 m
Breadth moulded:	16.20 m
Depth to upper deck:	8.00 m
Depth to poop deck:	10.50 m
Draught designed:	6.40 m
Gross Tonnage:	4,081
Net Tonnage:	2,161
Deadweight:	5,700 DWT
Manager of health	1

Number of holds:

Number of propeller:

Building material:

Type of engine:

Power of engine:

WARTSILA type 8R 32D 750 RPM

Power of engine:

3,000 KW MCR

Trial speed:

# Capacities

- cargo hold 6,850 c.u.m.

#### Containers

- above deck 138 TEU - in cargo hold 249 TEU

#### **Provisions**

m	- heavy fuel oil	357 c.u.m.
m	- diesel fuel oil	90 c.u.m.
m	- lubricationn oil	13 c.u.m.
m	- fresh water	112 c.u.m.
m	- balast water	2,595 c.u.m.
m	- consumption HFO	13,3 t/day
31	- crew complement	12 persons

The "STELLA PACIFIC" is a general cargo, container carrier with a single screw, semi cargo hold and high manoevering possibilities, equipment as follows:

- watertight hydraulically folding hatch covers two folding pair stowing forwards and three folding pairs stowing aftwards
- one bow thruster, C.P.P. driven by 300 kW el. motor

### **Auxillary plant**

13 knots

- one shaft generator "ULJANIK" 3 x 380 V 50 Hz 680 KVA
- two el.gen.sets "SCANIA-ULJANIK" 3 x 380 V 50 Hz

220 KVA each

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