

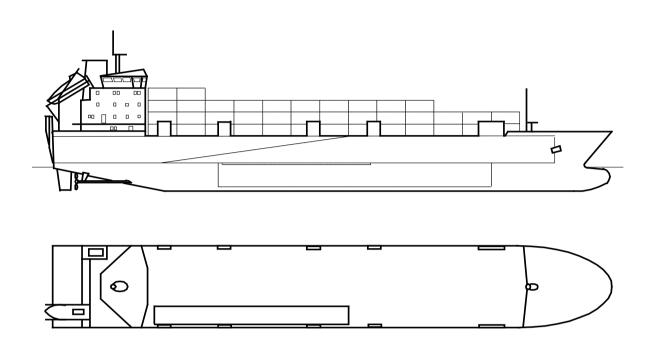
R – Series information

Helliar - 1997 Clipper Ranger - 1998 Arrow - 1998 Hildasay - 1999



All information given in good faith but without guarantee

R- Series vessels – General Description Arrow / Clipper Ranger / Helliar / Hildasay All details 'about' and 'without guarantee'



Name	Arrow / Clipper Ranger / Helliar / Hildasay		
Туре	Ro-Ro		
Class	DNV		
Build	1997 – 1999, Astilleros de Huelva, Spain		
Flag	Malta		
Port of registry	Valletta		
LOA	122.32 m		
Length between PP	112.20 m		
Breadth	19.80 m		
GT / NT	7,606 / 2,282		
Deadweight ¹	4,935 mt		
Displacement	Light	Loaded	
	4,060 mt	9,818 mt	
Summer Draught 1	5.779 m		
Depth to	1 st Deck	2 nd Deck	
	12.90 m	7.20 m	
Suez Canal Certificate	GRT 8,278.8	NRT 6,694.57	
Crew	18 persons		
Drivers	12 persons		

Summary lane	Tanktop Deck	205 lm	
	2 nd Deck	455 lm	
	1 st Deck	397 lm	
Total		1057 lm	
Lane width	Tanktop Deck	3.0 m	
	2 nd Deck	3.0 m	
	1 st Deck	2.9 m	
Free height	Tanktop Deck	5.0 m	
	2 nd Deck	5.0 m	
Carrying capacity	Tanktop Deck	Uniform load - 5	•
	- 628 m2	Total load 40' tra	
		Mafi trailers 20'	<u> </u>
		Mafi trailers 40'	
			s - total weight 60 mt
		Axle load - 17.5 r	
		Bogie load - 35 m 13.6 m trailers - 3	
	2 nd Deck	Uniform load - 2	
	- 1,366 m2	Mafi trailers 20'	
	- 1,500 III2	Mafi trailers 40'	
			s - total weight 60 mt
		Axle load - 17.5 r	
		Bogie load - 35 m	nt
		13.6 m trailers - 3	
	1 st Deck	Uniform load - 2 mt/m2	
	- 1,260 m2	Mafi trailers 20'	- payload 25 mt
		Mafi trailers 40'	payload 50 mt
		18 m road trailer	s - total weight 60 mt
		Axle load - 17.5 r	n
		Bogie load - 35 m	nt
		13.6 m trailers - 2	24 units
Containers	Total weight 2716 mt	TELL - stack load	50 mt – 266 units
Containers	(depending on ship		75 mt – 126 units
	Stability and cargo	. LO Stack load	, 5 IIIC 120 WIIIC3
	mix)		
NB. Vessels currently			
have some deck			
sockets removed to			
optimise RoRo mode.			

Pole sockets for	50 units				
reefers Doors / ramps	At the aft of the vess	sel is located a Stern r	amn with following		
Doors / ramps	At the aft of the vessel is located a Stern ramp with following characteristics:				
	Length	10.0 m			
	width	13.0 m			
	Free drive space	Width	Hight		
		6.0 m / 12.3 m	5.0 m		
	Max load	60 mt	60 mt		
	Axle load	d 17.5 mt			
Lifting platform	Between 2 nd Deck and Tanktop Deck				
	Length 18.8 m				
	Width	3.5 m			
	Max load	60 mt			
	Axle load	17.5 mt	17.5 mt		
	Working speed	Loaded	Empty		
		Appr. 9 m/min	Appr. 18 m/min		
Fixed ramp	Between 1 st Deck and 2 nd Deck				
	Length	37.0 m			
	Width	3.3 m			
	Max load	60 mt			
	Axle load	17.5 mt			
Holds ventilation	14 times / hour in po	ort			
Tanks capacities	Ballast water	Ballast water 2,400 m3			
	Fuel oil	700 m3			
	Diesel oil	100 m3			
	Lubrication oil	25 m3			
	Fresh water	110 m3			
Speed	Maximum speed	16.0. knots	16.0. knots		
	Service speed	15.5 knots			
	Economy speed	14.0 knots	14.0 knots		
Daily fuel	Main engines	Maximum speed	32.0 mt		
consumption	(IFO 380)	Service speed	30.0 mt		
		Economy speed	23.0 mt		
	Boilers (IFO 380)	At sea - 0.5 - 1.5 m	At sea - 0.5 - 1.5 mt		
			In port - 2.0 - 2.5 mt		
	Aux. engine (Gasoil)	In port - 1.8 - 2.5 n			
Daily oil	Main engines		100%load-1.2g/kWh		
consumption	Aux. engine		100%load-0.5g/kWh		
Daily water	Technical water	appr. 0.5 mt			
consumption	Fresh water	appr. 6 - 7 mt			
Radio and	Radar plants	ARPA NUCLEUS 60	ARPA NUCLEUS 6000 & NUCLEUS 5000		
navigational					
Facilities	Satellite navigation	INMARSAT C			
	VHF radio	TRP-3000			
	Communication system	RADIOTELEX			

	Auto pilot	RAUTHEON ELECTRONICS ANSCHUTZ, NAUTOPILOT D	
	Echosounder	FURUNO FE 608	
	Log	FURUNO DS 70	
Heeling system	Automatic heel compensation		
Main engines	Make Wärtsilä		
ividiii CiigiiiC3	Туре	9R32 LOW NOX	
	Number	2	
	Output	3,700 kW each	
Gearbox	Туре	Winchmann SV850-P480	
Gearbox	Number	2	
		154.64 RPM	
A !!! a	Propeller speed		
Auxiliary engines	Make	Wärtsilä-Leroy Somer	
	Туре	SACMUD 2512VS4	
	Number	2	
	Output	600 kW each	
Alternators	Туре	LSAM 50 S3 BRUSH LESS	
	Power ratting	765 kVA; 612 kW; cosф 0.8; 1,162 A	
	Voltage	380 V; phase 3; insulation class H; 50HZ;	
		1,500 RPM	
	Number	2	
Shaft generator	Туре	LSA M49.1 L 9 C 6814	
	Power ratting	750 kVA; 600 kW; cosφ 0.8; 1,139 A	
	Voltage	380 V; phase 3; insulation class F	
	Number	2	
Propellers	Number	2 x pitch-controllable	
	Diameter	3,800 mm	
Rudders	Number	2	
Steering gear	Туре	SERVO-SHIP, sl, CYLINDER-SINGLE	
	Electric power	30 kW	
	Number	2	
	Pump type	DENNISSON T6CO20	
Bow thruster	Туре	ULSTEIN, 150TV-D	
	Power	600 kW	
	Number	1	
Life boats	1 unit for 32 persons		
Anchors	Number	2	
	Weight	4,060 kg each	
Anchor chain	Diameter	56 mm	
dilaiii	Length (total)	522.5 m	
	Number	2	
Fire protection	CO2	Engine room, Central control room	
THE PROCECTION	Water spray system	Tanktop Deck, 2 nd Deck	
	Water fire protection	2 x CM/EP 80/26; Q = 90 m3;	
	•	2 X CM/EP 80/26; Q = 90 m3; H = 60 m	
	system	n – 00 m	

All details about and given in good faith without guarantee, and with minor differences between sister vessels

Photographs Page 1









1

2

3

4

5

- 1. General view
- 2. General view
- 3. General view
- 4. General view
- 5. Aft view



Photographs Page 2









1

2 3

4

- 1. Weather deck
- 2. Stern door
- 3. Stern door
- 4. Stern door

Photographs Page 3













- 1
 2

 4
 - 5 6

- 1. Drivers cabin
- 2. Bridge
- 3. Enclosed bridge wing
- 4. General view
- 5. Galley
- 6. View from bridge

