# HAPPY S-TYPE



## 01 INTRODUCTION 02 HAPPY SKY 03 HAPPY STAR

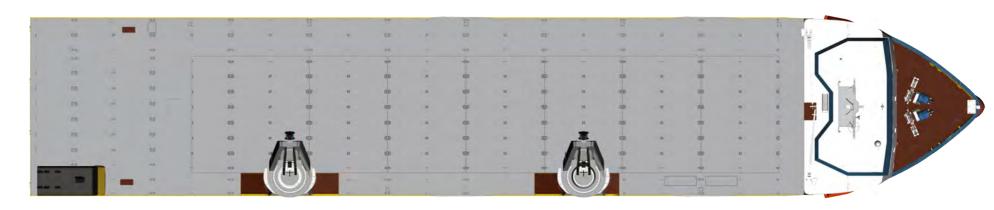
#### **HAPPY STAR**

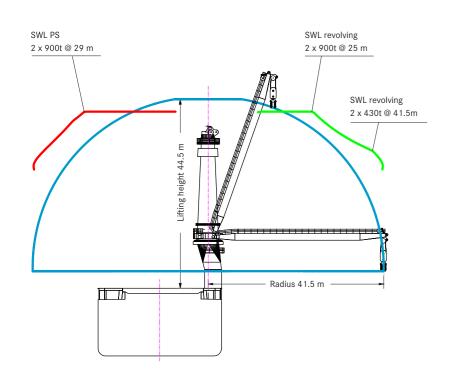
Happy Star offers unique lifting capabilities for the heavy lift and project cargo market. The 18,374 tdwt vessel features two 900 mt Heavy Lift Mast Cranes which make her ideally suited for handling heavy cargoes all over the world.

Given her high crane pedestals and lengthened jib, her lifting height is unrivalled in the worldwide heavy lift fleet. With a beam of 29 metres, the vessel has sufficient anti-heel capacity and stability to use the cranes to their full capacity - 1,800 mt at 25 metres, 1,600 mt at 28 metres and 1,000 mt at 41 metres - with a lifting height of close to 47 metres above the main deck. Stability is guaranteed without the need for a stability pontoon during loading or discharging operations.

At 156 metres long, her length and the forward position of her superstructure provide a single, large cargo hold and a wide, open deck area. With the weather deck extending over the full width of the vessel, her load space can be used to its full potential. She has 8 pontoon hatch covers, with 15 t/m2 carrying capacity over the full length and beam. The tweendeck is adjustable in height and it is possible to sail with open weather deck hatches at a draught of up to 8 metres. The hull was designed using the latest technology and special attention was given to optimising her powering performance, resulting in a good working speed. Happy Star has Finnish/Swedish 1A Ice Class notation.







#### PRINCIPAL DIMENSIONS

Length overall	156.0 m
Length p.p.	147.6 m
Breadth moulded	29.0 m
Scantling draft	9.5 m
Draft open sailing	7.5 m

#### **CRANES**

2 x 900 mt SWL

### COMBINABLE

1,800 mt

#### TROLLEY

37.5 mt SWL

# HATCH OPENINGS AND ALLOWABLE LOADS

#### HATCH OPENINGS

Weather deck 96.0 x 17.87 m Tween deck 89.6 x 17.87 m

#### ALLOWABLE LOADS

#### FLOOR SPACE

 Weather deck
 3,280 m²

 Tween deck
 1,716 m²

 Tank top
 1,624 m²

#### MAIN ENGINE

 Wärtsilä
 8,775 kW

 Bowthruster
 1,000 kW

 Service speed
 15 kn

#### CAPACITY

Grain = bale  $20,535 \text{ m}^3$  If tween deck installed  $18,677 \text{ m}^3$ 

## DEADWEIGHT

At Scantling draft 18,374 mton inc. tween deck hatch covers, pillars



**REGISTRATION** 

LRS X100 A1, Ice class 1A

(Finnish) strengthened for

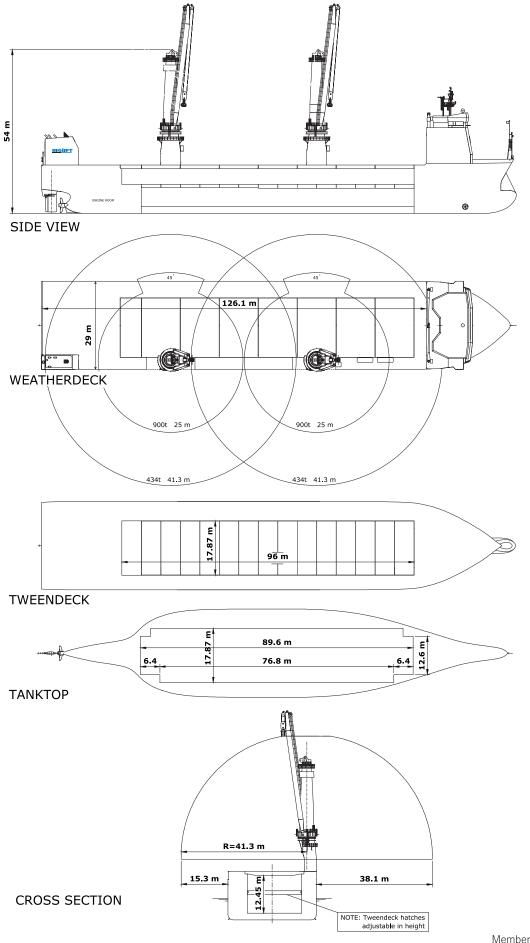
The Netherlands

**CLASS** 

heavy cargoes



# **HAPPY STAR**





# vessel description

## m.v. HAPPY STAR

General			
type of vessel		-	Cargo, Heavy Load (selected) RB-Carrier, dry cargo, Container facility
class			ister ₹ 100 A1, Strengthened for Heavy
		Cargoes, , l	Ice Class Finnish/Swedish 1A, Containers
		_	all Holds and on Upper Deck and on all
			ers, Shipright (ACS(B)) LA *IWS, LI, BWMP
		, , ,	S, NAV1, ₩ LMC, Shipright SCM
built		2014	
flag		Dutch	
port of registry		Amsterdam	
disponent owner		BigLift Ship	. •
P&I club official number		23889 Z 20	ard Club Europe Ltd
IMO no.		9661259	14
NSI No.		9001239	
call sign		PCCP	
satellite number	phone	+870 77323	35510
	GSM	+31 6 1366	
	VSAT phone	+31 20 708	
	SAT-C telex	424671510	& 424671511
	e-mail	happystar@	bigliftshipping.com
Tonnage		Internationa	<u>al</u> <u>Panama</u> <u>Suez</u>
GT		18,374	16,537 18,374
NT		5,583	- 5,583
Measurements			
Length overall		155.97	
Length between p	erpendiculars	147.60	
Breadth overall		29.00	
Depth moulded		13.20	m m with removable bulkhead in hold
Draft Summer (salt)			
Draft open sailing Deadweight Sur	nmer (salt)	8.00 18,374	mton
Airdraft over keel	iiiioi (sait)	54.00	m crane jibs down
	n, 5m draft)	33.80	•
`	ax, 9.5m draft)	40.70	mton / cm
,	ather deck	3,280	m² (deck space only)
	en deck	1,716	m <sup>2</sup>
	er hold	1,624	$m^2$
Cargo capacity below deck		20,535	m <sup>3</sup> (20,253 m <sup>3</sup> with bulkhead installed)
		18,677	m³ (with tweendecks installed)
Deck area		abt. 130 m	n x 29 m



Hatches	
Weather deck	96 x 19.20 m
	7 steel pontoons 12.74 x 18.58 m
	1 steel pontoon 6.60 x 18.58 m
	·
	steel lift away type
Tween deck	96.00 x 17.87 m
	14 steel pontoons 6.36 x 17.75 m
hold heights:	adjustable tween deck height. Height in lower hold
	ranging in 11 steps from 2.60 m to 8.52 m in 50 cm
	increments. In some places to 7 m.
Total hold height	12.447 m, no tween decks installed:
_	
Deck strength weather deck	15.0 mton/m <sup>2</sup>
tween deck	15/6.4 mton/m <sup>2</sup> , with pillars installed
tank top	20.0 mton/m <sup>2</sup>
Cargo Cranes	20.0 (11.01)/11
Both cranes positioned on SB side	
•	CWI 10 5 to 22 9 m radius ravalving (16 falls)
900 mt rigging	SWL 10.5 to 23.8 m radius revolving (16 falls)
	SWL 7.8 to 28.7 m over portside only (16 falls)
800 mt rigging	SWL 7.8 to 27.2 m radius revolving (14 falls)
	SWL 7.8 to 32.1 m portside only (14 falls)
	upto 430 mt SWL at 41.25 m
Both cranes working in tandem:	Combinable upto 1800 mt SWL
auxiliary hoist	Each crane equipped with a trolley travel hoist, upto
., .,	37.5 mt SWL, plus a sling handling hoist, SWL 10 mt,
	plus 2 tugger winches, SWL 25 mt
Lifting beams	place 2 lagger millerion, ette 20 mil
capacity / length	2 units, SWL 950 mt,
Supulity / Torright	length 12 m between outer lifting points.
	0.
	2 extension pieces to increase length to 15 m
	(650 mt SWL)
	Own weight per beam 35mt, extended 41 mt
Mechanical details	
mechanical ventilation, empty holds	6x per hour
CO <sub>2</sub>	yes
evaporator	yes; capacity 20t/day
power supply	440 volts, 60 Hz
Tank capacities	
ballast	12,559 m <sup>3</sup>
fresh water	313 m <sup>3</sup>
HFO	1,526 m <sup>3</sup>
MDO	287 m <sup>3</sup>
טטואו	201 111





Speed/Consumption		
Speed through water with fuel consumption basis IFO 380 centistokes; wind not exceeding 2		
beaufort; calm smooth sea without current; deep water; draft 7 m, abt. 16.7 knots		
Fuel consumption per day (even keel)	abt. 25 mt HFO at abt. 14.0 kn	
	abt. 30 mt HFO at abt. 15.0 kn	
	abt. 37 mt HFO at abt. 15.5 kn	
	no MDO at sea, except for manoeuvring	
In port:	abt. 3.0 ton HFO per day, cargo gear working	
	abt. 1.5-2.0 ton HFO per day, cargo gear idle	
	Note: in seca area MDO to be used in stead of HFO	
Engine		
type	Wärtsilä 8L46, 8775 kW engine	
bow thruster capacity	Wärtsilä 1000 kW	
auxiliaries	3 x Wärtsilä W6L20 1,025 kW	
ballast pumps, capacity	3 ballast pumps, each approx. 1,000 m <sup>3</sup> /hr	
ballast Intering system	Air compressed, abt. 3000 m <sup>3</sup> /hr	
	2 tanks total 800 m <sup>3</sup>	

All details are approximate and without guarantee. They must not be used as basis for charter parties or contracts without owner's explicit written authority.