



## TECHNICAL SPECIFICATIONS

Built	2009 (converted to a cement carrier in 2019)
Classification	ABS ✕A1, E, ✕AMS, ✕ACCU, UWILD, RW, BWT with description 'Cement Carrier'
Length Overall (m)	169.37
Breadth Moulded (m)	27.20
Depth Moulded (m)	14.20
Total Hold Capacity (m <sup>3</sup> )	26,738
Deadweight (t)	26,544
Draft (m)	9.819
Gross Tonnage	17,784
Net Tonnage	7,283
Thruster (kW)	1,300
Discharge Rate (max tph)	1,200 tph

*Akuna* is a cement carrier designed for pneumatic and mechanical loading and unloading.

The vessel carries cement and fly ash.





## HATCH AND HOLD SPECIFICATIONS

### HOLD VOLUMES (CUBIC METRES)

HOLD NUMBER	1	2	3	4	5	TOTAL
Total Volume (m <sup>3</sup> )*	3,544.62	5,398.25	5,680.33	5,415.24	4,804.09	24,842.53
Weight (t) Max	4,253.54	6,477.90	6,816.40	6,498.29	5,764.91	29,811.04

\* Data calculated 1.10 m below Upper Deck

### CARGO HANDLING EQUIPMENT

#### MECHANICAL LOADING

Through midship hopper, rated capacity 1,000 tph with cement at bulk density 1.20 t/m<sup>3</sup>

#### Loading Hopper Air Draft

19.20 m to guardrail | 18.20 m to inlet flange

#### Consumption

2.60 mt/day idle no cargo operation, 2.20 + 8.50 unloading with two AE's Total: 10.70

#### PNEUMATIC LOADING POINT – PORT SIDE

##### Loading rate

4 x lines 300 tph each (1,200 tph total)

##### Manifold Arrangement

4 x lines, 400 NB DIN PN10 flanges

(OD 565, 16 x M24 bolts on 515 PCD)

Distance from bow to centre of loading pipes = 78 m

Distance from ship side to manifold Flange = 3.40 m

##### Air Supply to Shore

2 x Lines Port only, 250 NB DIN PN10 Flanges

(OD 395, 12 x M20 bolts on 350 PCD)

Distance from bow to centre of air lines = 74.90 m

Distance from ship side to manifold Flange = 2.96 m

### CARGO HANDLING EQUIPMENT (CON'T)

#### PNEUMATIC LOADING POINT – STARBOARD SIDE

##### Loading rate

2 x lines 300 tph each (600 tph total)

##### Manifold Arrangement

2 x lines, 400 NB DIN PN10 flanges

(OD 565, 16x M24 bolts on 515 PCD)

Distance from bow to centre of loading pipes = 78.50 m

Distance from ship side to manifold Flange = 5.50 m

#### PNEUMATIC UNLOADING

##### Port and Starboard Side

4 x 400 NB lines @ 300 tph ea or

2 x 400 NB lines @ 600 tph ea

(max, basis cement cargo and subject to shore receival piping arrangement)

Max Air delivery to shore: 30,480 m<sup>3</sup>/hr

#### CARGO HOLD DUST COLLECTORS

2 x 7,200 m<sup>3</sup>/hr per cargo hold

72,000 m<sup>3</sup>/hr total capacity

#### HOSE HANDLING CRANES

1 x 25 tonne @ 24 m on ship centreline

(outreach 10.40 m from ship side)

1 x 10 tonne @ 16 m port side (outreach 11.45 m from ship side)

1 x 1.50 tonne @ 8 m starboard side

(outreach 3.20m from ship side)

## CONSUMPTION (TONNES PER DAY)

	SPEED		MAIN ENGINE HFO		MAIN ENGINE DO		A/E
	Loaded	Ballast	Loaded	Ballast	Loaded	Ballast	HFO
Sea	13.70	14.20	22.50	22.50	0.21	0.21	1.50
Port/ Anchorage			N/A	N/A	N/A	N/A	2.60
Loading/ Discharge			N/A	N/A	N/A	N/A	2.60 / 13.0

All specifications given in good faith but without guarantee.