

## TECHNICAL SPECIFICATIONS

Built	2009
Classification	Lloyd's Register
Length Overall	197.10 metres
Length B.P. (Lpp)	188.40 metres
Breadth Moulded	32.20 metres
Depth Moulded	17.75 metres
Total Hold Capacity (including hatches)	45,708.50 cubic metres
Deadweight	47,556 tonnes
Draft – Summer	11.517 metres
Gross Tonnage	33,047 tonnes
Net Tonnage	11,140 tonnes
Bow Thruster	1,119 kW
Length of Boom	76.20 metres
Discharge Rate – Coal, Gypsum, Aggregates	2,500 tonnes/hour
Discharge Rate – Iron Ore	3,000 tonnes/hour

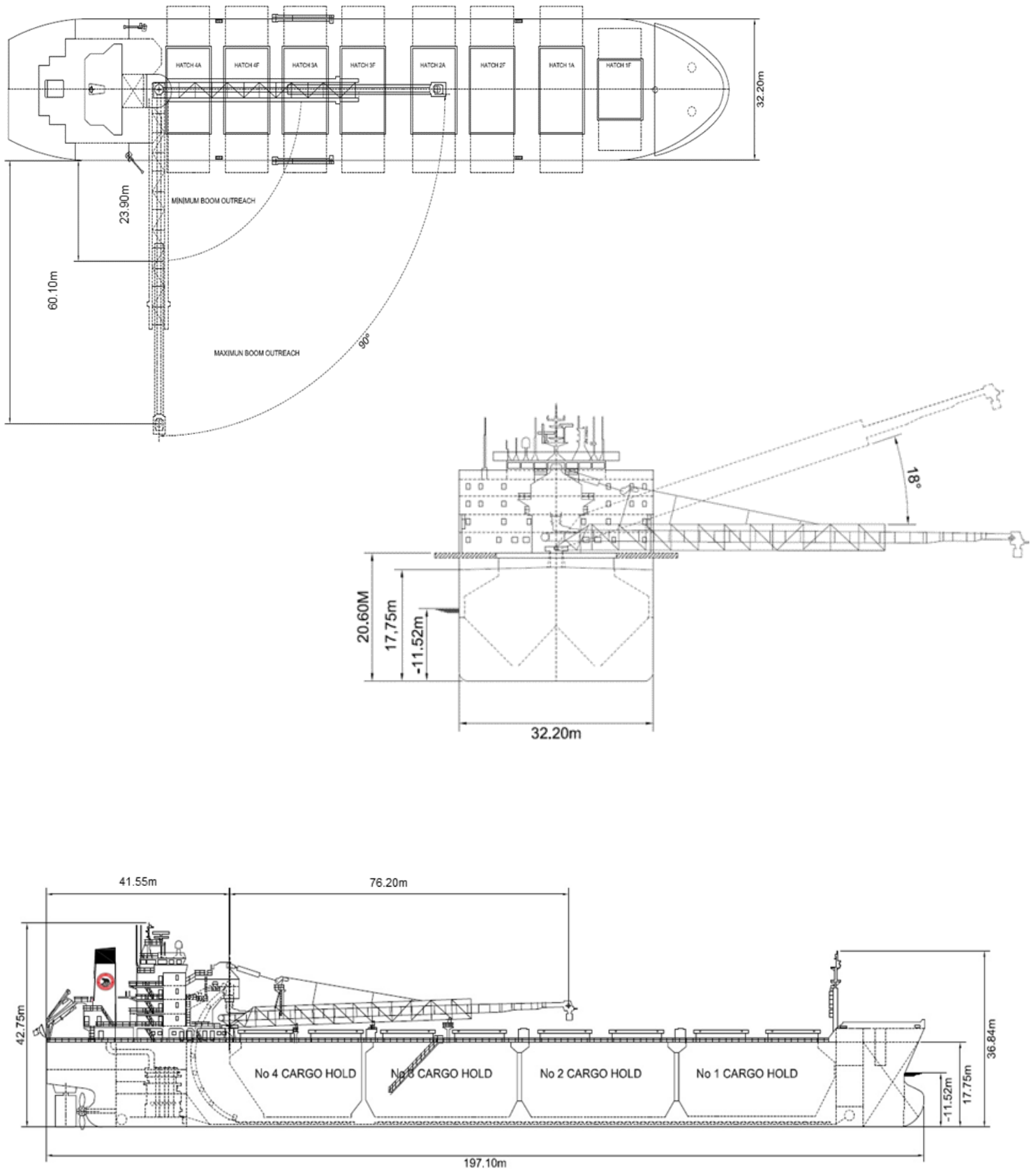
MV *Algoma Integrity* is a self-unloading bulk carrier with four cargo holds, strengthened for heavy cargoes, loaded through eight hatches.

The discharge is gravity fed through the gate system via two longitudinal conveyor belts feeding to a central C-Loop that lifts the cargo onto the telescopic boom conveyor and ashore.

Discharge rate is variable to the maximum of 3,000 metric tonnes and 2500 cubic metres per hour for volumetric cargoes.

Using the flexible boom and precise control of the discharge rate makes the vessel suitable for discharge to almost any receiving facility including enclosed hoppers, barges and trucks. The vessel is double hulled, including bunker tanks, and utilizes a bow thruster and high-lift rudder to give excellent handling characteristics.

MV *Algoma Integrity* is wholly owned by Algoma Central Corporation and commercially managed by CSL as part of the CSL International Pool.





## HATCH AND HOLD SPECIFICATIONS

### HOLD VOLUMES (CUBIC METRES)

HOLD NUMBER	1	2	3	4	TOTAL
Cubic Volume (Maximum)	11,905.70	12,382.80	12,382.80	9,037.20	45,708.50

### HOLD OPENINGS IN METRES

NUMBER OF OPENINGS	1F	1A	2F	2A	3F	3A	4F	4A
Opening Length	11.20	11.20	11.20	11.20	11.20	11.20	11.20	11.20
Opening Width	13.40	19.20	19.20	19.20	19.20	19.20	19.20	19.20
Coaming Height Above Keel	19.85	19.85	19.85	19.85	19.85	19.85	19.85	19.85

### HATCH INFORMATION (METRES)

DESCRIPTION	Side-Rolling Panels							
Operation	Hydraulic							
Hatch Length	11.52	11.52	11.52	11.52	11.52	11.52	11.52	11.52
Hatch Width	13.78	19.58	19.58	19.58	19.58	19.58	16.15	19.58
Hatch Top Height Above Keel (When Hatch Cover Open)	20.48	18.70	18.70	18.70	18.70	18.70	18.70	18.70

## CARGO HANDLING EQUIPMENT

Two Hold Conveyors

Two Transfer Conveyors

One Boom Conveyor

One "C" Loop Conveyor

All conveyors are driven by variable speed motors, gears and couplings

Discharging is done through hydraulically operated gates fitted to outlet hoppers in the bottom of cargo holds

Boom Belt: 1,600 mm wide

Tunnel Belts: 2,000 mm wide

Transfer Belts: 2,000 mm wide

"C" Loop Belt: 2,750/2,600 mm wide

Dust Suppression: Water spray systems on the hold, transfer, C-loop chutes and on the boom end.

Discharge Rate: 2,500 m<sup>3</sup>/hr or 3,000 mt/hr, whichever is first reached

Maximum Boom Outreach: 76.20 metres (Telescopic Shuttle Conveyor)

## SPEED | CONSUMPTION

	SPEED (Knots)		CONSUMPTION (Metric Tonnes/Day)		
	Loaded	Ballast	Loaded	Ballast	Port
At Sea	11.75	12.50	25.75	24.75	N/A
Loading					2.70
Discharge					5.00

## ASSIGNED DRAFT

Season	Draft (Metres)	Displacement (Tonnes)	DWT (Tonnes)
TF	-	-	-
F	11.771	60,098	47,492
T	11.757	61,582	48,977
S	11.517	60,162	47,556
W	11.277	58,762	46,138

All specifications are given in good faith but without guarantee.