

# CSL SPIRIT



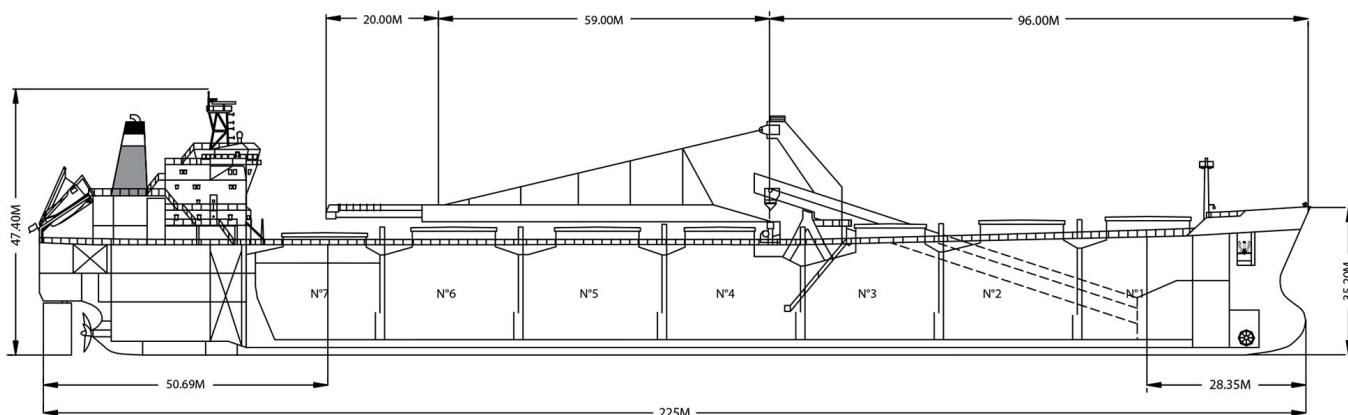
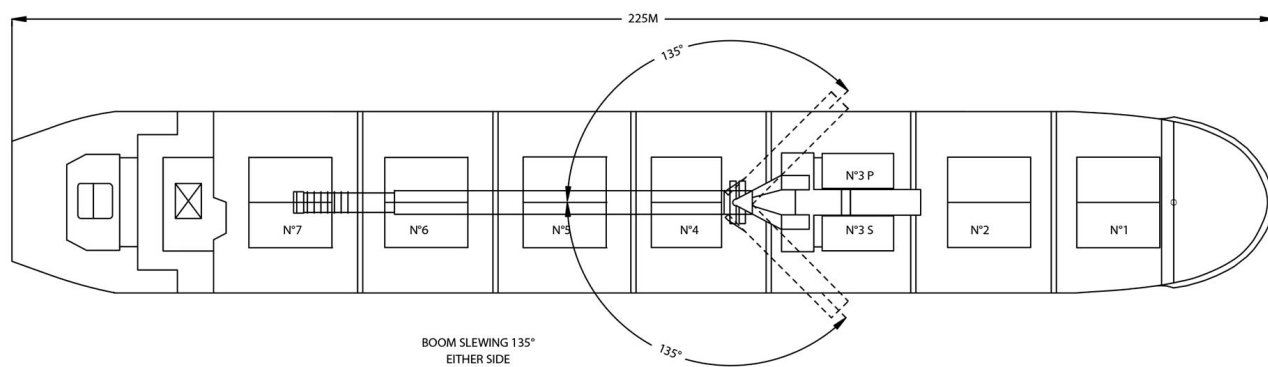
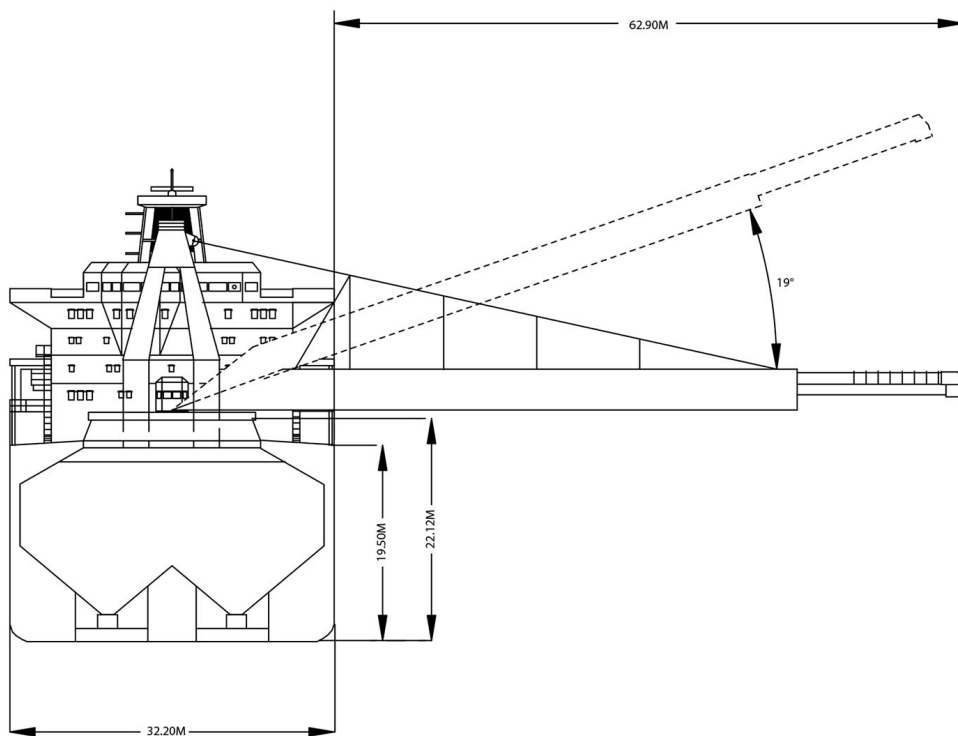
## TECHNICAL SPECIFICATIONS

Built	2001
Classification	DNV +1A1
Length Overall	225.02 metres
Breadth Moulded	32.19 metres
Depth Moulded	19.51 metres
Total Hold Capacity (including hatches)	66,333.24 cubic metres
Deadweight	70,037 tonnes
Draft - Summer	14.42 metres
Gross Tonnage	41,428 tonnes
Net Tonnage	19,172 tonnes
Bow Thruster	1,325 kW
Length of Boom	79.00 metres
Discharge Rate (maximum)	4,500 tonnes/hour

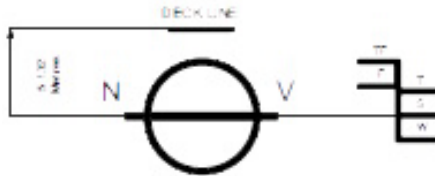
MV *CSL Spirit* is a Panamax, self-unloading vessel with a deadweight of 70,037 MT.

This vessel currently operates on the Coasts of the Americas.

MV *CSL Spirit* is wholly owned and operated by CSL.



0981-04 08/22/04



DEADWEIGHT SCALE									
DRAFT				DISPLACEMENT (tonnes)	TPC (tonnes)	DEADWEIGHT (tonnes)	DRAFT		
Sea Water		Fresh Water					Sea Water		
(metre)	(feet)	(metre)	(feet)				(feet)	(metre)	
	48	15		90,000			48		
14	46		48		66		46	14	
	44	14	46	80,000			44		
13	42		44			60,000	42	13	
	40	13	42				40	12	
12	38		40	70,000			38		
	36	12	38			50,000	36	11	
11	34		36		64		34		
	32	11	34	60,000			32	10	
10	30		32			40,000	30	9	
	28	10	30				28		
9	26		28	50,000	62		26	8	
	24	9	26			30,000	24	7	
8	22		24				22		
	20	8	22	40,000		20,000	20	6	
7	18		20				18		
	16	7	18	30,000	60	10,000	16	5	
6	14		16				14		
	12	6	14				12	4	
5	10		12	20,000			10		
	8	5	10				8	3	
4			8						
3		3	10		58				
			8						

Light Ship  
17,547 tonnes

## HATCH AND HOLD SPECIFICATIONS

### HOLD VOLUMES (CUBIC METRES)

HOLD NUMBER	1	2	3	4	5	6	7	TOTAL
Cubic Volume (Maximum)	8,064.20	9,779.90	9,187.70	9,088.40	9,705	9,772.20	8664.80	64,262.10

### HOLD OPENINGS (METRES)

NUMBER OF OPENINGS	1	1	2	1	1	1	1
Opening Length	14.76	14.76	12.30	12.30	14.76	14.76	14.76
Opening Width	16.00	16.00	5.80	16.00	16.00	16.00	16.00
Coaming Height Above Keel	23.90	23.20	22.50	22.03	22.10	22.10	21.10

### HATCH INFORMATION (METRES)

DESCRIPTION	Side-Rolling Panels						
Operation	Hydraulic						
Hatch Length	15.06	15.06	12.62	12.60	15.06	15.06	15.06
Hatch Width	8.15	8.15	6.12	8.15	8.15	8.15	8.15
Hatch Top Height Above Keel (When Hatch Cover Open)	24.85	24.15	23.45	22.97	23.05	23.05	22.05

## CARGO HANDLING EQUIPMENT

Telescopic Boom
Shuttle-type conveyor fitted at the toe & extends boom 20 metres
Two 3.5 m/s Hold Conveyors
Two 3.5 m/s Transfer Conveyors
One 4.0 m/s Inclined Belt
All belts are 1.8 metres wide with a 35-degree trough.
Dust Suppression: All transfer points are equipped with water sprayers and surfactant applicators.
Unloader Inner Boom Length: 59.00 metres
Maximum Boom Outreach: 62.90 metres

## SPEED | CONSUMPTION

	SPEED (Knots)		CONSUMPTION (Metric Tonnes/Day)		
	Loaded	Ballast	Loaded	Ballast	Port
At Sea	13.00	13.50	33.00	31.00	N/A
Loading					4.10
Discharge					7.00

## ASSIGNED DRAFT

Season	Draft (Metres)	Displacement (Tonnes)	DWT (Tonnes)
TF	15.05	89,077	71,530
F	14.75	87,329	69,782
T	14.72	89,575	72,028
S	14.42	87,584	70,037
W	14.12	85,599	68,052

All specifications are given in good faith but without guarantee.