

Typical ship principal dimensions

Revision 1

The following pages contain typical dimensions for the main classes of common ship types. The classes are ordered according to common usage in the shipping industry and the values are based on modern ships. The data is given without guarantee of accuracy, in particular relating to the estimates for Net Steelweight. (Sources: principal dimensions are based on vessels reported by Sea-Web. CB is calculated using displacement and principal dimensions. Steelweight estimates are from various sources). All dimensions are extreme rather than moulded.

Dry Bulk Carriers:

SHIP CLASS		L [m]	B [m]	T [m]	D [m]	Δ (tonnes)	C_B	DWT (tonnes)	GT (tons)	Design Speed [knots]	Approx. Net Steelweight (tonnes)
Handysize	10,000 - 39,999 dwt	179.5	27.2	10.2	14.5	39,353	0.771	27,307	20,619	15.0	3,800
Handymax	40,000 - 59,999 dwt	190.0	32.2	12.8	18.0	67,682	0.842	57,000	32,957	14.2	8,325
Panamax	60,000 - 99,999 dwt	229.0	32.2	14.45	20.05	94,590	0.864	82,188	42,917	14.5	12,200
Capesize	100,000 - 200,000 dwt	292.0	45.0	18.2	24.7	205,754	0.839	180,132	94,008	14.5	27,200
VLBC	> 200,000 dwt	360.0	65.0	23.0	30.4	448,479	0.813	400,000	201,000	14.8	NA

Tankers:

SHIP CLASS		L [m]	B [m]	T [m]	D [m]	Δ (tonnes)	C_B	DWT (tonnes)	GT (tons)	Design Speed [knots]	Approx. Net Steelweight (tonnes)
Small	10,000 - 29,999 dwt	128.60	20.4	8.7	11.5	17,472	0.747	13,100	11,600	14.0	5,500
Handymax	30,000 - 59,999 dwt	183.0	32.2	12.2	18.8	56,242	0.763	46,803	29,335	14.6	8,500
Panamax	60,000 - 79,999 dwt	228.5	32.2	14.4	20.9	89,093	0.817	74,999	42,000	16.0	11,100
Aframax	80,000 - 119,999 dwt	243.8	42.0	14.9	21.3	124,873	0.797	107,529	60,205	15.0	14,000
Suezmax	120,000 - 199,999 dwt	274.0	48.0	17.0	23.2	183,150	0.799	158,000	81,500	15.5	20,500
VLCC	>200,000 dwt	333.0	60.0	22.5	30.4	362,931	0.788	318,000	161,500	14.4	38,400

Container Ships:

SHIP CLASS		L [m]	B [m]	T [m]	D [m]	Δ (tonnes)	C_B	DWT (tonnes)	GT (tons)	TEU	Design Speed [knots]	Approx. Net Steelweight (tonnes)
Feeder	100 - 499 TEU	112.5	18.2	6.7	8.7	9,486	0.673	7,040	4,914	420	15.0	1,550
Feedermax	500 - 999 TEU	139.95	21.5	8.4	11.6	17,715	0.682	12,500	9,900	766	17.0	2,750
Handy	1,000 - 1,999 TEU	167.2	25.0	9.5	13.4	27,200	0.668	20,147	14,856	1,388	17.2	4,900
Sub-Panamax	2,000 - 2,999 TEU	211.9	29.8	11.4	16.7	46,256	0.627	34,325	26,638	2,578	22.0	9,000
Panamax	3,000 - 4,999 TEU	268.8	32.2	12.5	19.1	69,845	0.630	52,300	42,609	4,178	24.8	14,600
Post-Panamax	>4,999 TEU	334.0	48.2	14.5	24.8	135,536	0.566	101,200	91,051	8,500	25.6	30,000
Emma Maersk	15,550 TEU	397.7	56.4	16.0	30.2	218,788	0.594	156,907	170,794	15,550	24.5	NA

Passenger Ships:

SHIP CLASS		L [m]	B [m]	T [m]	D [m]	Δ (tonnes)	C_B	DWT (tonnes)	GT (tons)	Design Speed [knots]	Approx. Net Steelweight (tonnes)
Large Cruise Ship	Queen Mary 2	345.0	41.0	10.3	31.1	79,826	0.534	19,189	148,528	26.0	NA
Cruise Ship	Costa Atlantica	292.6	32.2	8.0	19.8	50,089	0.648	8,600	85,619	22.0	NA
Ferry	Albayzin	186.0	25.6	6.5	15.0	17,754	0.560	7,499	26,302	23.5	NA

RO-RO Ships:

SHIP CLASS		L [m]	B [m]	T [m]	D [m]	Δ (tonnes)	C_B	DWT (tonnes)	GT (tons)	Design Speed [knots]	Approx. Net Steelweight (tonnes)
RO-RO Cargo Ship		193.0	26.0	7.0	16.7	20,685	0.575	11,636	29,004	22.0	4,000
Vehicle Carrier		200.0	32.2	9.7	34.4	34,410	0.535	17,245	60,387	20.5	15,000

Special Tankers:

SHIP CLASS		L [m]	B [m]	T [m]	D [m]	Δ (tonnes)	C_B	DWT (tonnes)	GT (tons)	Design Speed [knots]	Approx. Net Steelweight (tonnes)
Chemical Tanker		145.1	23.0	8.8	12.5	22,375	0.743	17,056	11,248	14.0	NA
LPG Tanker	9,000 m ³	120.4	19.8	8.8	11.2	15,300	0.712	10,314	9,142	16.0	NA
LPG Tanker	59,343 m ³	204.9	32.2	12.02	20.2	60,681	0.746	44,639	35,346	16.2	NA
VLGC	83,270 m ³	230.0	36.6	11.6	21.6	74,072	0.738	54,936	47,985	18.1	NA
LNG Tanker	150,900 m ³	291.0	43.4	12.4	26.0	117,386	0.730	83,200	100,325	19.2	27,500
LNG (Q Flex)	216,200 m ³	315.2	50.0	12.5	27.0	145,885	0.721	106,898	136,410	19.5	NA
LNG (Q max)	260,928 m ³	345.3	53.8	12.2	27.0	178,579	0.769	130,059	163,922	19.5	NA