

CHAPTER 1

GENERAL DATA

LSM stands for "Landing Ship Medium."

1-1

1-2

The LSM is designed primarily for transporting Medium and Heavy Army Tanks, their personnel and equipment and landing them under their own power on beaches.

This vessel has a carrying capacity of five Medium or three Heavy Army Tanks or a pay load maximum of 165 tons. All types of motorized vehicles and artillery can also be carried and unloaded under their own power.

1-3 Principal Dimensions of Hull:-

(a) Length overall	203'-06"
(b) Length between perpendiculars	196'-06"
(c) Extension of vessel forward of F.P.	7'-00"
(d) Extension of vessel aft of A.P.	0'-00"
(e) Breadth extreme outside of plating	34'-00 5/8"
(f) Breadth extreme outside pipe fenders	34'-06 1/16"
(g) Center of propellers forward of A.P.	9'-09"
(h) Centerline of shaft strut bearing forward of A.P. . .	11'-06 11/16"
(i) Centerline of rudders forward of A.P.	6'-01 1/2"
(j) Designed drag	4'-00"
(k) D.W.L. above molded base line	8'-06"
(l) Depth, molded, at M.P. (3" fwd. of fr. 18)	13'-03"
(m) Freeboard Super. Deck at F.P. to D.W.L.	13'-00"
(n) Freeboard at stern to D.W.L.	10'-06"
(o) Draft, full load:- (designed data)	
Forward	4'-03"
Aft	7'-02 3/4"

The above are designed dimensions.

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1-3 Principal Dimensions of Hull:- (cont'd.)

(p) Draft, landing:- (designed data)	
Forward	3'-02 1/8"
Aft	6'-02 3/8"
(q) Displacement:-	
Light	513 tons
Landing, full load	734 tons
Seagoing, full load	912 tons

1-4 Frame Spacing:-

Frames are numbered from 0 at the forward perpendicular to 41, which is at the after perpendicular.

Complete transverse frames do not exist at all of the intermediate numbered locations as the principal framing of this vessel is longitudinal.

Part frames in the forward overhang are designated as "A" and "B".

- Frame spacing is 21" from F.P. to fr. 1.
- Frame spacing is 24" from fr. 1 to fr. 5.
- Frame spacing is 4'-09" from fr. 5 to fr. 6.
- Frame spacing is 7'-00" from fr. 6 to fr. 29.
- Frame spacing is 21" from fr. 29 to fr. 41.

1-5 Heights above D.W.L. (8'-06" above moulded baseline-designed dimensions)

Main Deck	frame 28	3'-10"
Superstructure Deck	frame 17	11'-10"
Forecastle Deck	frame 5	18'-06"
Bridge Deck	frame 17	18'-10"
Wheelhouse Deck	frame 17	22'-04"
Conning Station Deck	frame 17	29'-04"
#1 and #2 gun platforms	18'-11"
Centerline of 12" searchlight	36'-02 7/8"
To top of main mast (S08 Radar Antenna)	55'-11"

The above are designed dimensions.

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1-6 Main Propelling Engines:-

	<u>Fairbanks Morse</u>	<u>General Motors</u>
Number of engines	2	2
Type of engine	2 cycle	2 cycle
Model	38D8 1/8	16-278A
Total shaft horse- power	2880 at 720 RPM contin- uous duty	2880 at 720 RPM contin- uous duty
Total engine horse- power	3600 at 800 RPM emer- gency	3600 at 800 RPM emer- gency
Number of cylinders	10	16
Bore	8-1/8"	8-3/4"
Stroke	10"	10-1/2"
Firing order:- Port unit	1-8-7-3-5- 9-4-2-10-6	1-9-8-16-2- 10-6-14-4-12- 5-13-3-11-7- 15
Starboard unit	1-6-10-2- 4-9-5-3-7- 8	1-15-7-11-3- 13-5-12-4-14- 6-10-2-16-8- 9
Method of starting LSM ship numbers	Air 1-125, 126-141, 201-232, 243-269, 310-331	Air 142-200, 233-252, 270-294, 295-309, 332-353

1-7 Propellers:-

NO.	TYPE	MANU- FACTURER	NO. BLADES	DIA.	PITCH	SHAFT DIAM.	DES. RPM	DES. SHAFT H.P.
2	Solid		3	4'- 07"	2'- 08"	0'- 05"	600	3400

Direction of Rotation:-

Starboard propeller - clockwise
Port propeller - counter clockwise

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- 1-8 Rudders:-
Two double plate spade type. 163.63 tons
- 1-9 Diesel Oil, 95% capacity 17.75 tons
- 1-10 Fresh Water, full load 2.32 tons
- 1-10 Reserve Feed Water, full load
- 1-11 Design Speed:-
Seagoing 13 knots
Landing 14 knots
- 1-12 Cruising Radius 3500 miles
- 1-13 Armament:-
Six 20 M/M A.A. guns
- 1-14 Boats and Rafts:-
One 12' Wherry - capacity 7 men
Five Balsa Floats - capacity each 25 men
- 1-15 Anchors:-
One 750 pound Bow Anchor
One 2000 pound Stern Anchor
- 1-16 Fire Plugs:-
Superstructure Deck 8
Main Deck 8
- 1-17 Radio TCS
- 1-18 Radar S08, Bk, BN
- 1-19 Underwater Sound:-
One NJ Series Echo Sound Apparatus (not installed
at present)

LSM Class

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1-20 Complement:-

Ship	4 officers, 48 enlisted men
Troop	2 officers, 52 enlisted men

1911 Class