

FULL-TURN CRANE BARGE

1,200-Ton Lifting Capacity | Floating Crane Vessel

HORIZON
OFFSHORE SERVICES



MAIN PARTICULARS	
Classification	CCS
Total length	116.14 m
Load waterline length	115 m
Ship width (breadth)	36.6 m
Moulded depth	7.6 m
Design draft	5 m
ACCOMMODATION	
Configuration	8x1 Single / 2x2 Double / 10x4 Four-person
Total capacity	52 persons
Infirmary	21 m ²
SURVIVAL EQUIPMENT	
Lifeboats	PS 1x36 persons, SB 1x36 persons
Life rafts	24 persons x 4 units
MAIN MECHANICAL EQUIPMENT	
Auxiliary generator sets	3 x 600 kW
Emergency generator set	1 x 120 kW
CARGO DECK	
Available deck area	~3,500 m ²
Cargo deck area	~1,200 m ²
Deck load capacity	4,000 T
Deck load	30 t/m ²
ANCHOR POSITIONING WINCHES	
Units	8
Mooring wire diameter	Φ52 mm
Allowable rope length	1,200 m
Rated speed	12 m/min
SHIP-SHIFTING WINCHES	
Units	4 (1x200 kN)
Wire diameter	Φ38 mm
Capacity	400 m
Anchoring speed	30 / 15 / 6.9 m/min
ANCHOR	
Type	Delta, 9,500 kg x 8 pieces
CRANE	
Max lifting load (fixed)	1,200 t
Max lifting load (full rotation)	800 t
Lifting load / radius (SWL)	30 t @ 24 m
Max hook height above waterline	~125 m

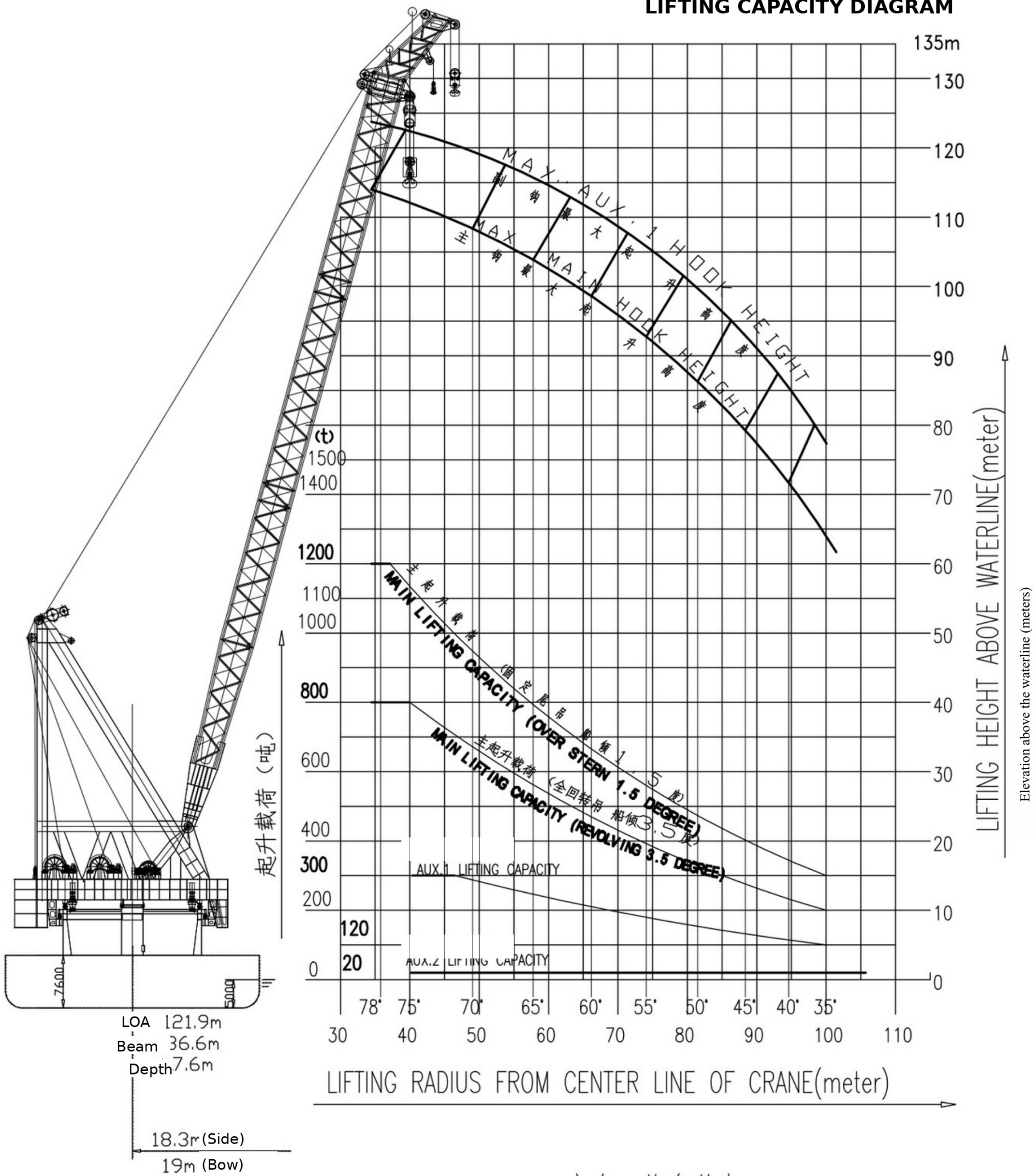
ESSENTIALS

Full-turn floating crane barge with 52-person accommodation capacity. Maximum fixed lifting load: 1,200 tons. Maximum full-rotation lifting load: 800 tons.

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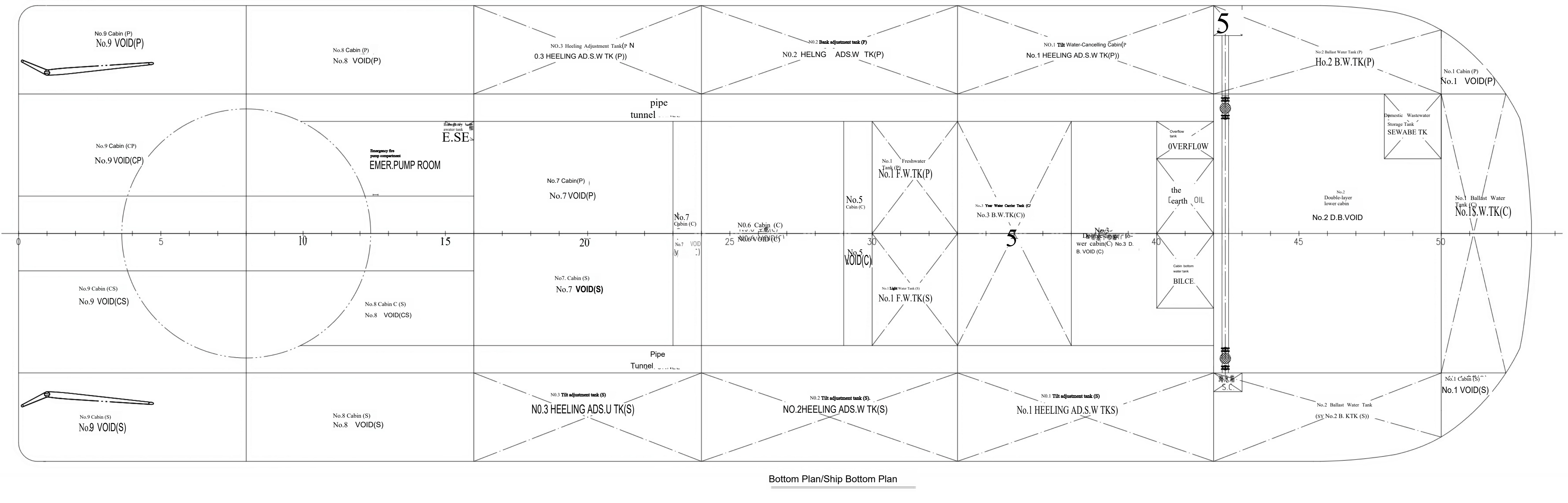
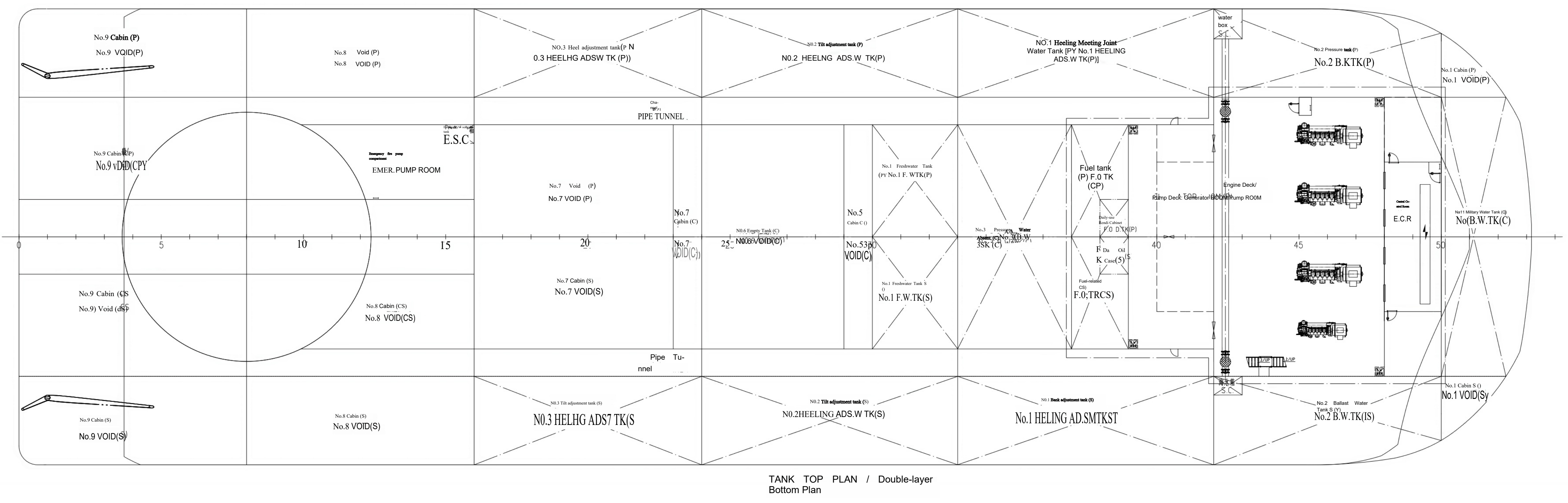
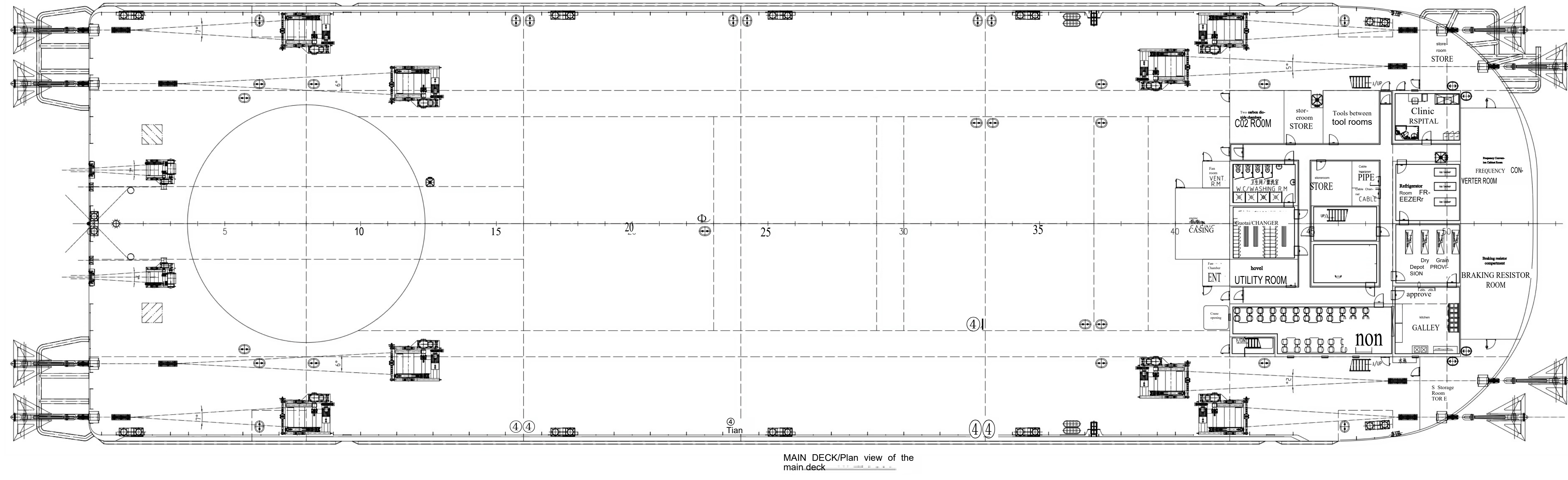
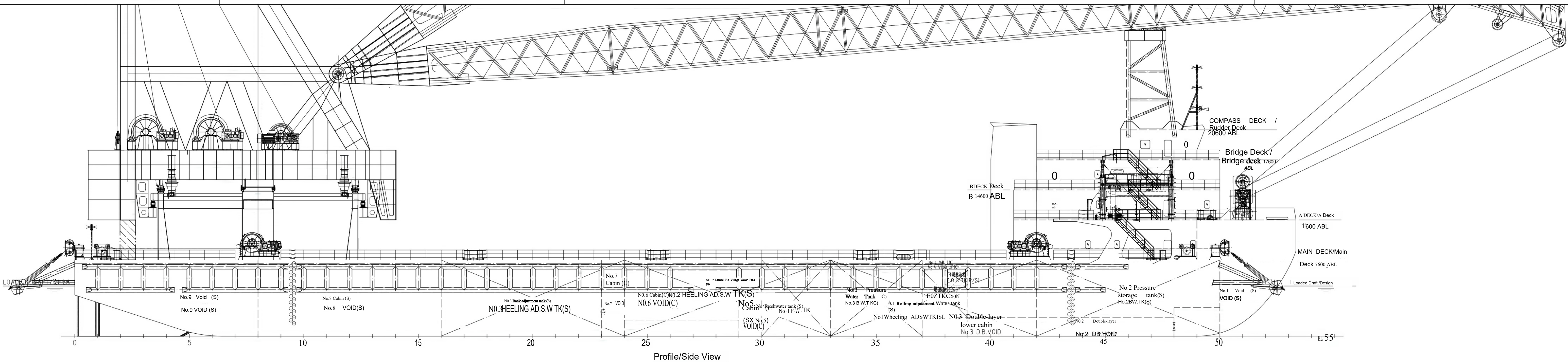
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LIFTING CAPACITY DIAGRAM



Safety Workload Table

	Arm Angle (degrees)	78°	75°	70°	65°	60°	55°	50°	45°	40°	35°
Main hook 50Tx2	Amplitude from the rotation center (m)	36.5	43	49	57.8	66.2	74.1	81.5	88.3	94.6	100
	Height above water surface (m)	113.8	112.5	109.5	105.8	101.2	95.8	89.7	82.9	75.5	67.3
	Fixed hoist allowable load (t)	1200	1150	950	800	680	560	480	400	350	300
	Full rotation allowable load (t)	800	800	680	580	600	480	400	350	250	200
Secondary hook	Amplitude from the rotation center (m)	42.5	48	56.4	66	75.1	83.7	91.8	99.2	106	112
	Height above water surface (m)	125	123.2	119.5	114.8	109.3	103	96.1	88.5	80.2	71.3
	Full rotation allowable load (t)	300	300	280	250	230	200	180	150	130	120



P Principal R1 Scale NC
Dimensions IPAL DIMENSIONS

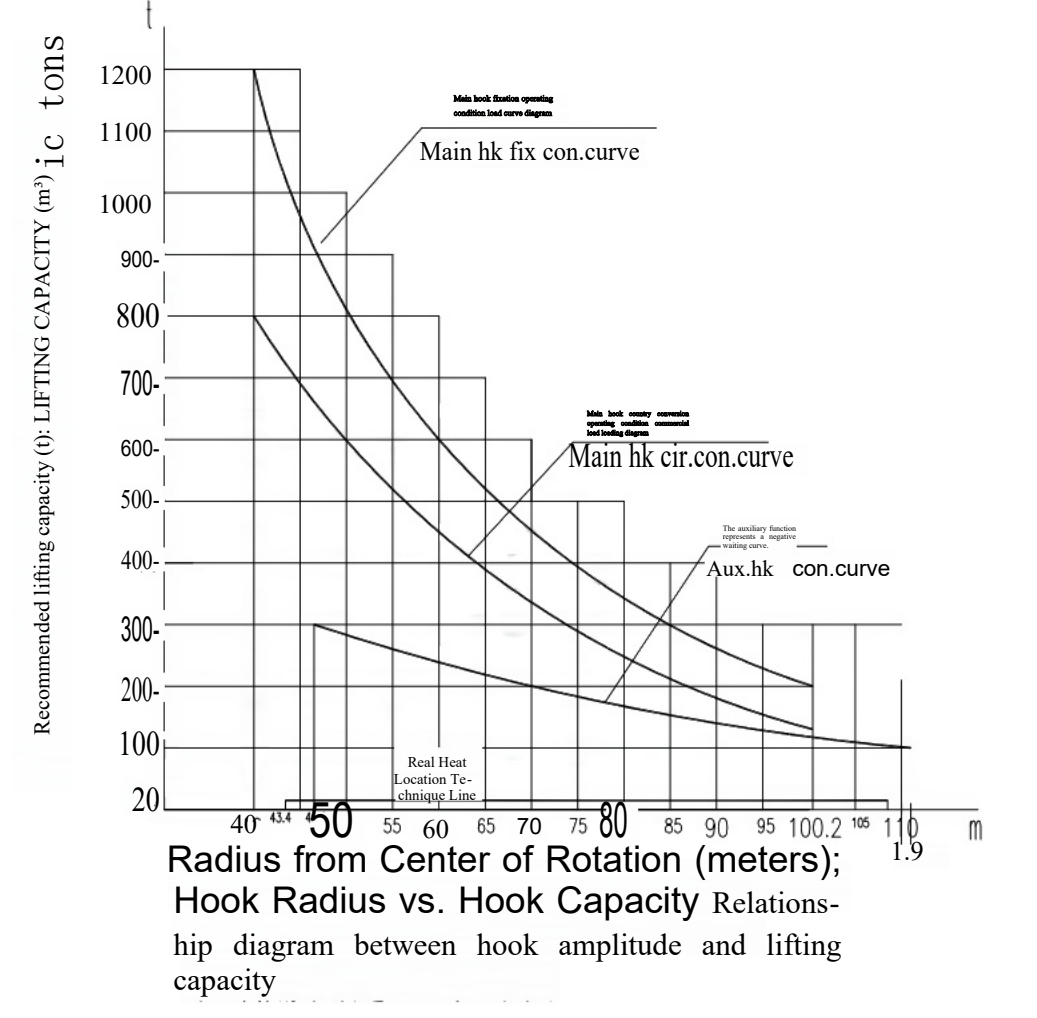
LENGTH O.A. (MLD.HULL) 400 FT
(121.9 M) type width
BREADTH(MLD) 120 FT(36.6 M)

PTH(MLD) 25 FT(7.6 M) Design draft
ED DRAFT 16.4 FT(5 M) Deck

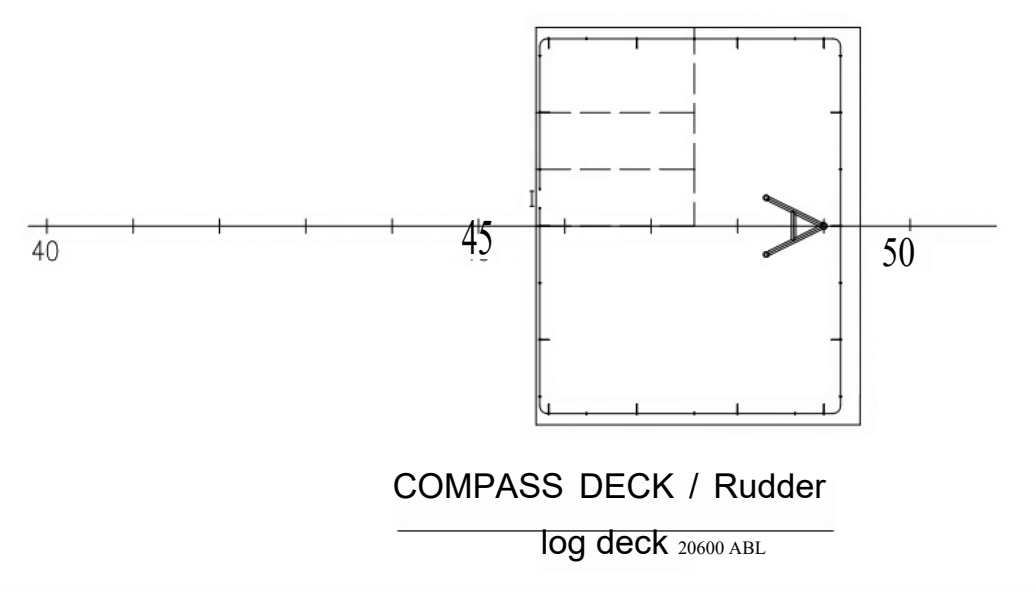
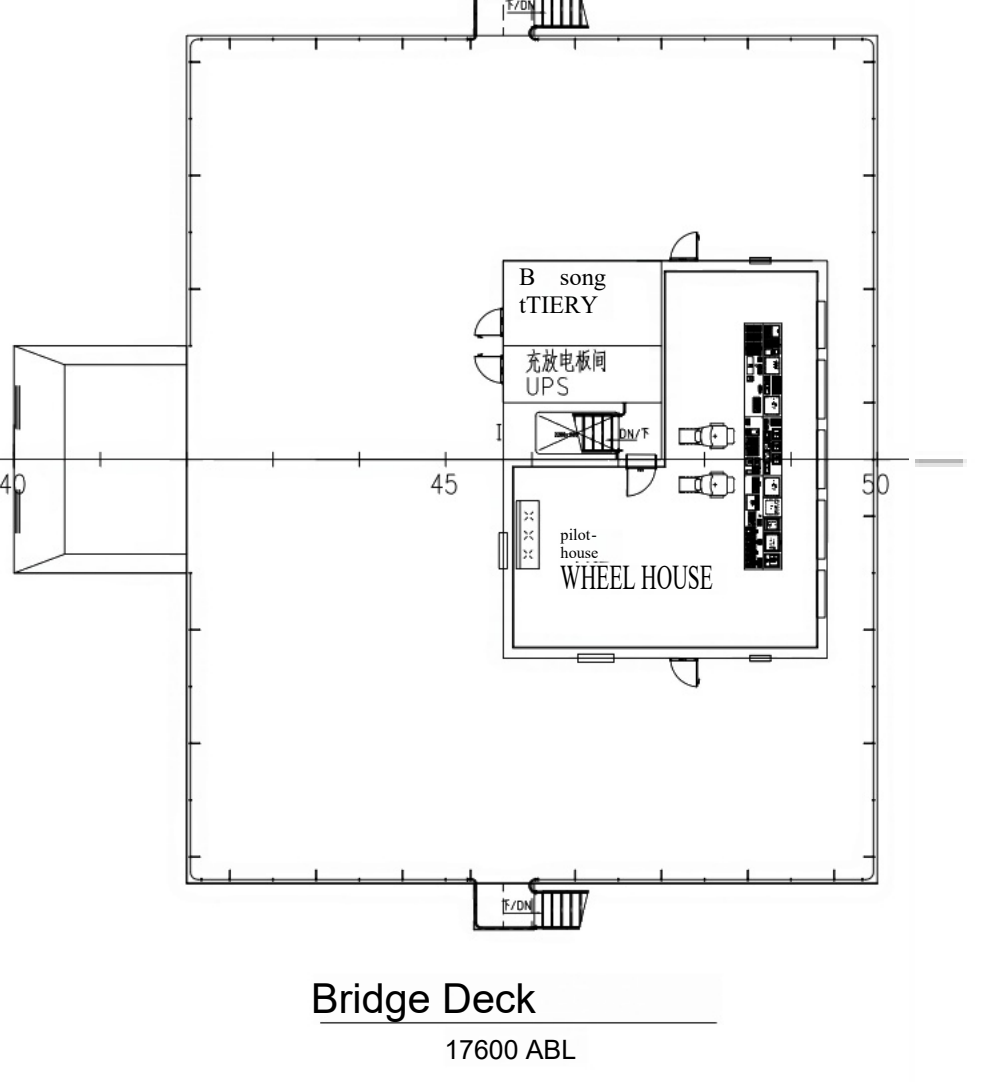
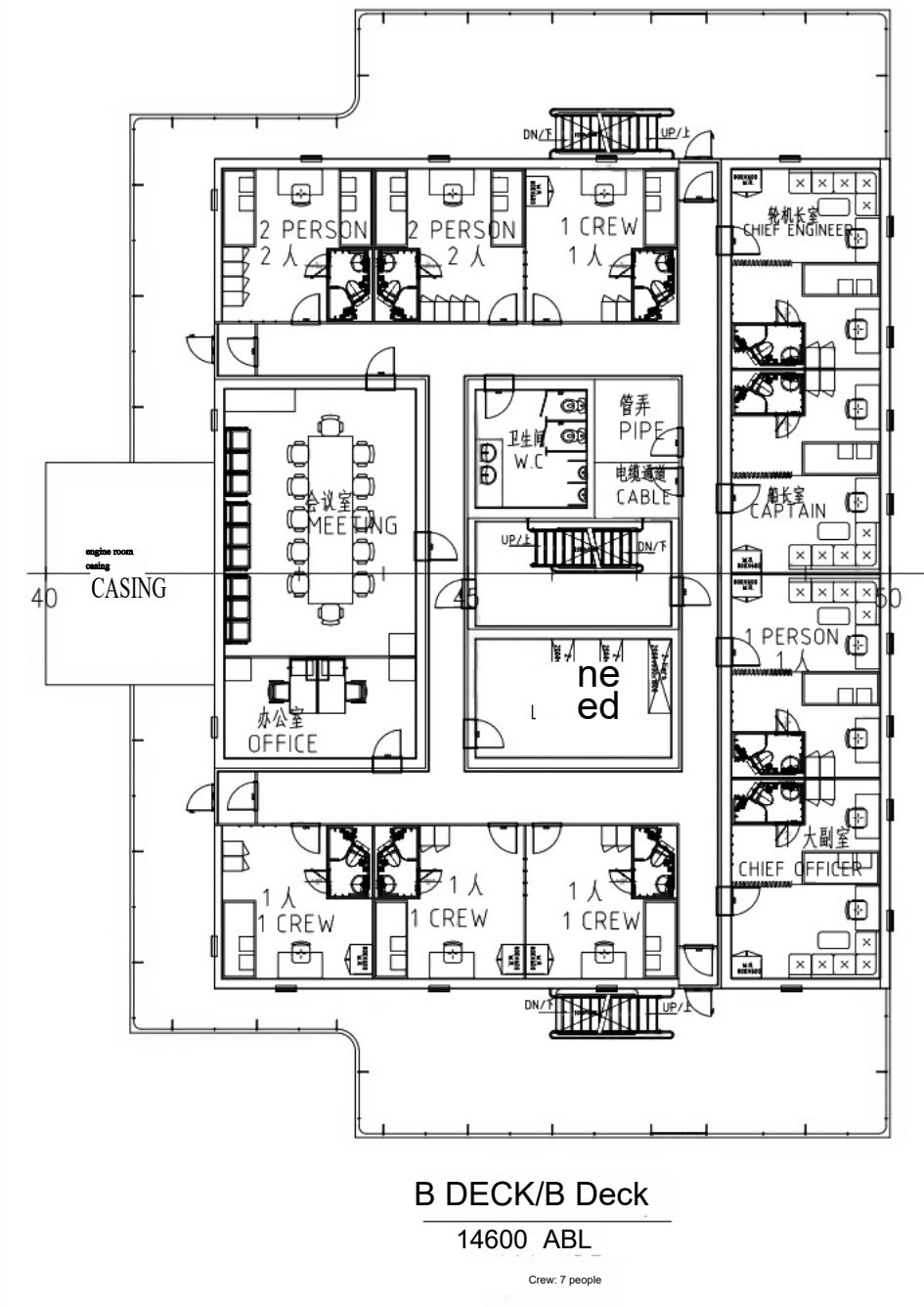
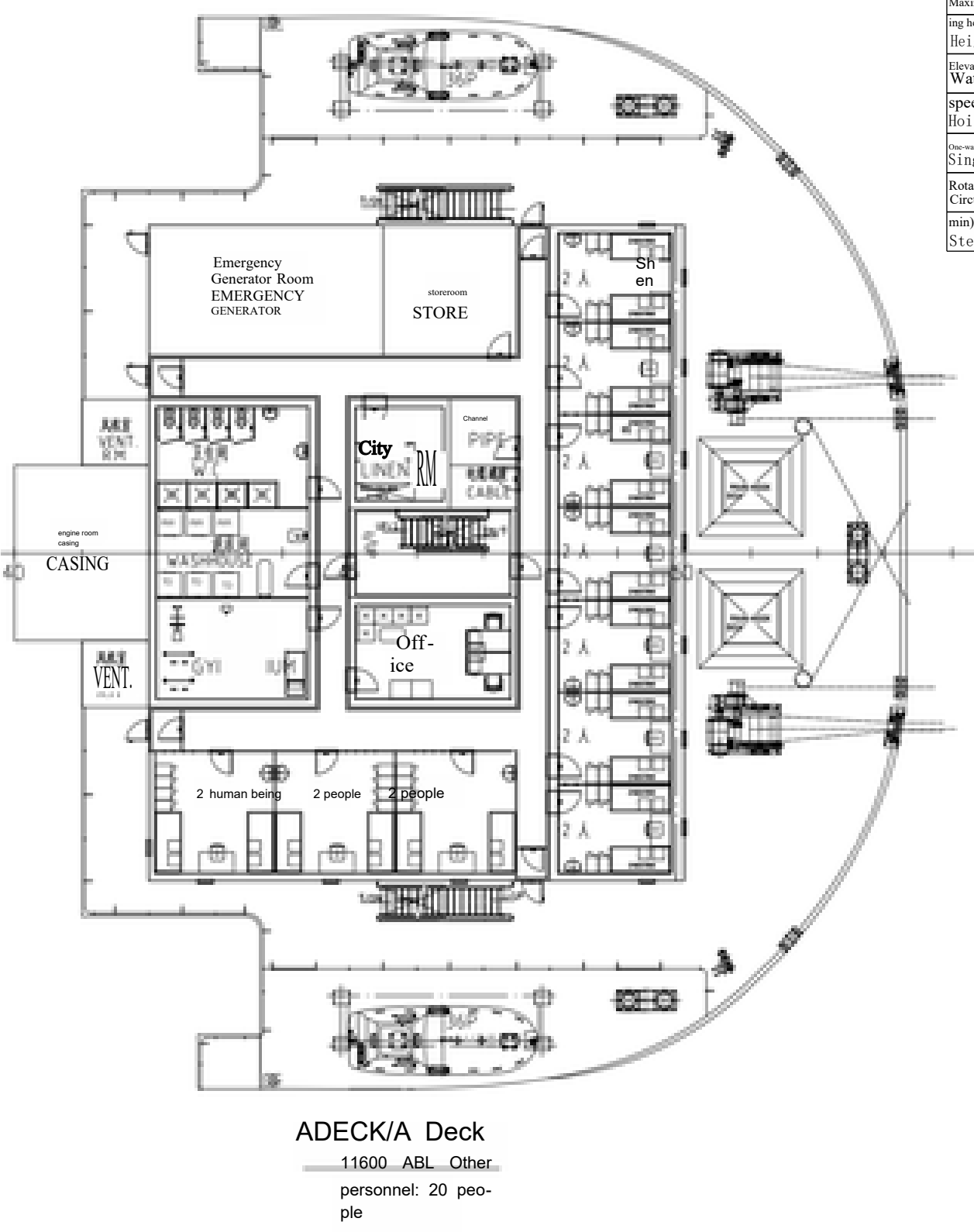
load DECK LOADING 30 T/M2

SEAFARER 7 Seafarer: 7 people
Person 25 Except for sailors
Other personnel: 2-5

Class Notation: *CSA Floating CraneBarge/Lifting
Appliance, Lifting Within R1



Main hook / Main hook; Auxiliary hook / Auxiliary hook; Rigging hook / Rig hook							
Weight (t)	Rotative St. side Fixed	600×2	400×2	60×2	300	100	20
Working range (m)							
Minimum working radius (m)	40	40	100.2	95.5	111.9	43.4	106.3
Maximum working radius (m)	115	115	68	128	76	78	128
Waterline height (m) Lifting speed (m/min)	5	5	5	5	5	5	5
Revolving speed (r/min)		2		10			25
Single radius change (m/s)	0.125						
Rotation Speed (r/min)		0.125					
Acceleration speed (g)							
Max. Tail radius (m)		17					
Stress (radius)							



BUILDER	Available upon request	CLASS	CCS
OWNER	Available upon request		
PROJECT	1,200-Ton Full-Turn Crane Barge		
General Arrangement: Overall Layout Diagram	DWG No. HOS-GA-001		
	REP No. N/A		
	SCALE 1:200	SHEET 1/1	STATUS IFA