

Technical Specification

DLB Quippo Prakash

120M ACCOMMODATION / DERRICK PIPELAY BARGE



QUIPPO PRAKASH PTE.LTD

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SUMMARY OF TECHNICAL SPECIFICATION

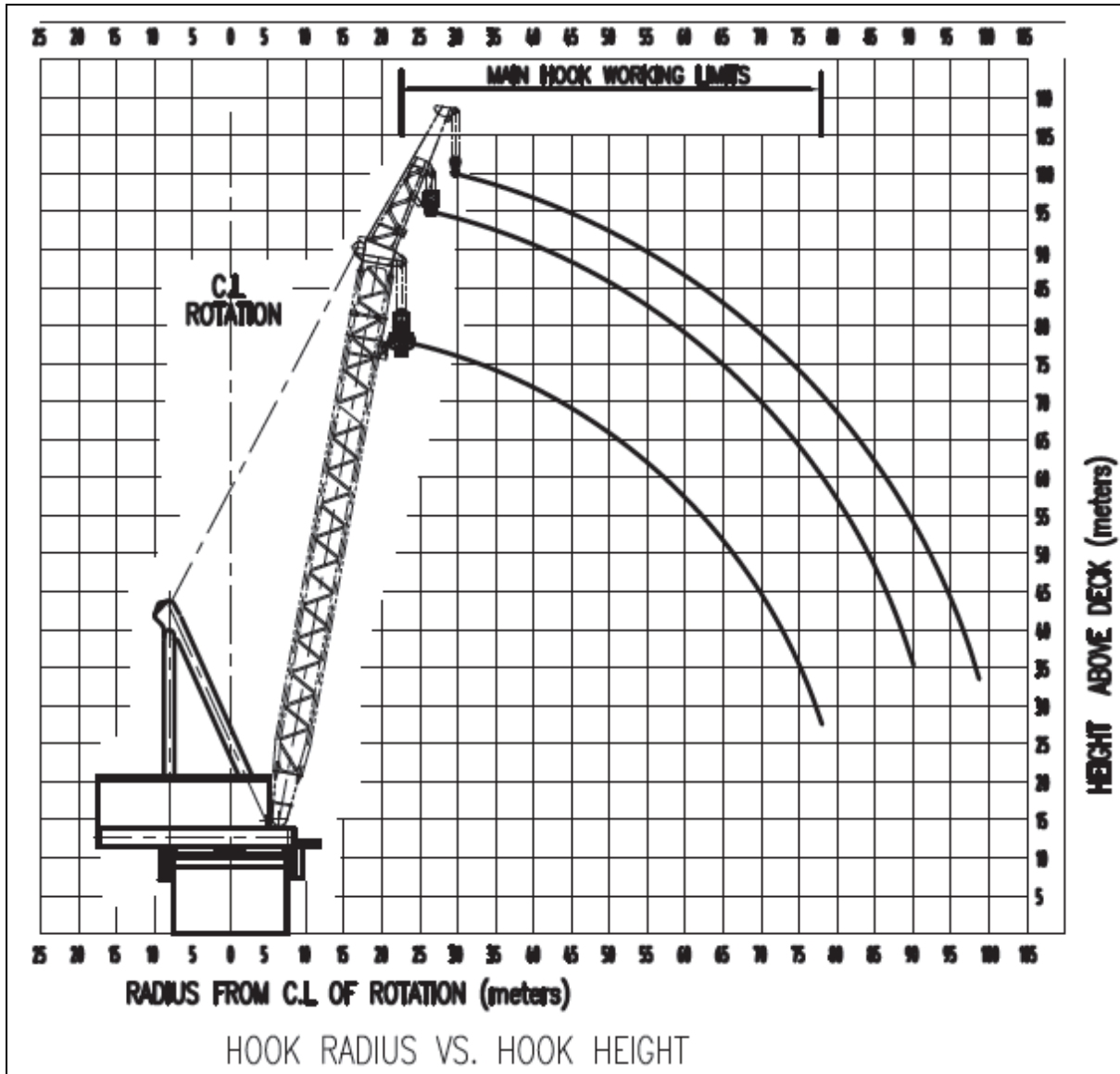
I	OVERALL DIMENSIONS	
	Length overall	120m
	Beam moulded	40.1m
	Depth moulded	9.0m
	Draft designed	6.5 m (approx.)
	Main Deck Strength	12.5 to 15 Tons/ M ²
	Class	ABS , +A1
II	ACCOMMODATION	
	8x 1-berth cabins	8 men
	14 x 2-berth cabins	28 men
	66 x 4-berth cabins	264 men
	Total	300 men
III	TANK CAPACITY	
	SWB (<i>Non-Potable</i>)	15300 M ³ approx.
	F.W. Tank (<i>Potable</i>)	2000 M ³ approx.
	F.O. Tank	2160 M ³ approx.
	Dirty Oil Tank	15 M ³ approx.
	Hydraulic Oil Tank	10 M ³ approx.
	Lube Oil Tank	10 M ³ approx
IV	SERVICE CONDITIONS	
	Ambient air temperature	45 deg C (max)
	Relative humidity	95% (max) 50% (min)
	Sea water temperature	35 deg C (max)
	Wind velocity	18m/sec
	Wave height (Hs) - Significant	3.0 m (12 sec)
	Current velocity	2 Knots
	Water Depth	
	Lifting Operations mode	9m to 150 m
	Pipelay Operations pipelay mode	6m to 150 m
	Pipelay Operations standby mode	20m to 150m
V	NAVIGATION & COMMUNICATION EQUIPMENT	
	Helicopter Communications Equipment	
	1 set VHF AM Transceiver	131 MHz and 130 MHz
	1 set Non-directional Radio Beacon	100 watts RF output adjustable and 4 programmable coding letter boards
	Two (2) sets aviation portable radio	Complete with microphone headset for Helicopter Landing Officers (HLO).
	Six (6) Walkie Talkie	Multi-channel walkie talkies with clip on microphone
	Intercom / Public Address System	
	Internal telephone system	
	PA system	
	Echo Sounder for 200m working depth	
	Aldis signal lamp	

	Anemometer for wind speed and direction	
	One (1) set DGPS satellite navigator	
	Two (2) independently operated radars	Minimum range of 48NM
	One (1) gyro compass	with at least (1) repeater complete with azimuth mirror
	One (1) magnetic compass	
	GMDSS console	
	Radio communications equipment	
	2 sets VHF Radio with dual watch facility	
	1 set MF/ HF radio telephone	
	2 radar transponder (SART)	
	12 two-way hand-held VHF radios	
	1 x (EPIRB)	
	8nos hand held VHF	
	Marine integrated TVRO system	
	VSAT communication system	
VI	HELIDECK	Capable of handling Sikorsky 92
VII	MOORING SYSTEM	Make: Mc Gregor Plimsoll, Singapore
	Electrical winches	12nos , 150T each
	Mooring anchors	12nos , 12T delta flipper
	Storm anchor	1nos , 5T Stockless
	Windlass / Tugger winch	1nos ,10T
	Constant Tension Winches	2 nos , 20Teach
	Slewing Crane	2nos , 15T each
VIII	MAIN CRANE	Make: ZPMC, China
	Classification society	ABS
	Main hook Stationary over stern	
	Capacity	2000T fixed over stern with Tie-back , 1600T fixed over stern without Tie-Back
	Maximum machine list	1.50°
	Maximum machine trim	3.50°
	Working radii	22 to 32 m
	Main hook 1200 MT Revolving	
	Capacity	1200T
	Maximum machine list	3.50°
	Maximum machine trim	3.50°
	Working radii at 1200T	22 to 32 m (min radius 63m at 300T)
	Max hook height from deck	78m
	Auxiliary hook	
	Capacity	300T
	Maximum machine list	3.50°
	Maximum machine trim	3.50°
	Working radii	25 to 70 m
	Max hook height from deck	95m
	Whip hook	
	Capacity	50T
	Maximum machine list	3.50°
	Maximum machine trim	3.50°
	Working radii	28 to 78 m

	Max hook height from deck	100m
IX	PIPELAY EQUIPMENT	Make: PH Hydraulics, Singapore
	System performance	
	Pipe OD	6” to 60”
	Max. pipe joint weight	32000 kgf
	Pipe length	35 to 42 ft
	Nominal tension capacity – 1 tensioner	70000 Kgf @25m/min paying out
	Nominal tension capacity – 2 tensioners	140000 Kgf @25m/min paying out
	Max tension capacity – 1 A&R Winch	150000 Kgf @25m/min paying out
	Pipe Tensioner system	Make: PH Hydraulics, Singapore
	2 No. Tensioners	70 T each
	1 no. A&R winch	150 T (Structure designed to upgrade upto 200T)
	1 Electrical Power Unit	
	1 Measurement Sheave	
	1 Remote Control Console	
	Welding stations	5 nos.
	Coating Station	1nos
	NDT station	1nos
X	POWER GENERATION	Make: Cummins
	6 No. Diesel Generators	1230 KW each
	1 No. Emergency Generator	150 KW
	1 No. Standby Generator for Crane	72 KW
XI	BALLASTING SYSTEM	3 Pumps of 1000 m3/hr capacity
XII	WATER MAKER	
	2 No. R.O plants	150 Tons per day
XII	PIPE HANDLING DAVITS	Make: MacGregor Plimsoll, Singapore
	Quantity	6 Nos.
	Capacity	50T each

Crane load Charts

a. Hook Radius Vs Hook Height



b. Hook Radius Vs Hook Capacity

