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“SHEERLEGS” Crane Barge



LOA: 24m

Beam: 13m

Draft: 1.8m

Crane Barge for Various Offshore Support Operations

A general construction crane barge designed for bridge and wharf construction, pipeline projects and salvage.

Flag:	Australian	Where Built:	Sydney
Class:	2D	Refit:	1997

Dimensions

Length Overall: 24m	Beam: 13m	Draft: 1.8m
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Capacities

Fuel: 18,000litres	Fresh water: 8,000litres
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Machinery (Below Deck)

Generator: 1 x 25KVA Caterpillar	Compressor: 1 x 800cfm Sullair
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Mooring / Positioning System

4 x Jaden 10T hydraulic winches	4 x 2.5T anchors
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Deck Equipment

Inner hook: 100T - at max lift water line to hook of 6.5m at 5m radius

Outer hook: 54T - at max lift water line to hook of 16m at 10m radius

Main winch: 2 x 10T Jaden hydraulic winches

Dredging: Clamshell bucket capacity: 8cu m

Crane & Lift Capacities (see Table 1 for lift and ratio capacities)

Type: American 1990 7750 Offshore 75T pedestal crane – serial number 9003AC3526 with 100ft of 46HR angle boom and 15,377 counterweight.

Powered by: 6V71N Detroit Diesel coupled to 3 stage torque converter, A/C in cab

Pedestal height: deck level to bull gear = 3.7m

Main hoist: 6 part to 75T on sheave block – wire rope diameter 25mm

Auxiliary hoist: single line to headache ball – wire rope diameter 25mm

Table 1: Offshore lift ratings in kg with 46HR angle chord lattice boom and "P-P" counter weight (15377kg), American 1990

Boom Length	Radius in Metres	Boom Angle Degrees	Lift Rating Offshore Floating	Metres from Boom Point to Boom Foot
30.48 m	6.1	80.9	25420	30.2
	7.6	78.0	24770	29.8
	9.1	75.0	24040	29.5
	10.6	72.0	23300	28.9
	12.2	69.0	22130	28.3
	15.2	62.7	17715	27.1
	18.3	56.0	14015	25.3
	21.3	48.8	11550	22.8
	24.4	40.6	9665	19.8
	27.4	30.8	8245	15.5
	30.5	16.5	7415	8.5