



Diamond Jim

DESCRIPTION

The **Diamond Jim** is a lay/bury derrick barge with a nominal capacity of 100 long tons.

GENERAL

Nominal Capacity	100 Long Tons (224,000 lbs.)
Barge Size	175' x 75' x 12'
Free Board	7'-2"
Barge Power	100 KW Diesel-generator set
Crane Power	350 KW Diesel-generator set
Tail Swing	35'-0"
Boom Hinge Pin Elevation	31'-0" (from barge deck)

DERRICK CAPACITIES

	Radius	Safe Working Load
Main Hoist	175'	80,000 lbs
	160'	94,000 lbs
	140'	118,000 lbs
	120'	152,000 lbs
	105'	188,000 lbs
	90'	210,000 lbs
	80'	224,000 lbs
Auxiliary Hoist	190'	38,000 lbs
Whip	217'	10,000 lbs

HOOK LOADS & REACHES (from centerline of rotation)

Main Hook	Maximum Operating Radius	175'-0"
	Minimum Operating Radius	60'-0"
	Variably Rated from 80 feet to 175 feet, providing 87 LT at 100 feet, and 36 LT at 175 feet	
Auxiliary Hook	Maximum Operating Radius	190'-0"
	Minimum Operating Radius	63'-0"
	Rated Load	17 LT
Whip Hook	Maximum Operating Radius	217'-4"
	Minimum Operating Radius	79'-0"
	Rated Load	4.5 LT

LIFTS (Above Water Surface)

Main Hook	At Maximum Operating Radius	101'-0"
	At Minimum Operating Radius	188'-4"
Auxiliary Hook	At Maximum Operating Radius	115'-0"
	At Minimum Operating Radius	211'-0"
Whip Hook	At Maximum Operating Radius	125'-0"
	At Minimum Operating Radius	239'-0"

LIFTS (From Below Water Surface)

All Hooks	30'-0"
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RATED SPEEDS

Main Hoist	At Rated Capacity	14 fpm
Auxiliary Hoist	At Rated Capacity	65 fpm
Whip Hoist	At Rated Capacity	200 fpm
Swing with Rated Capacity Load	On Main Hook and Boom	1/3 rpm to
	At Maximum Radius	1/2 rpm

For more information contact:

Kenny Guidry, Marine Transportation
 Email: kenny@dsgom.com
Mike Swiber, Purchasing Agent
 Email: mike@dsgom.com

Mailing Address: Post Office Box 1286, Morgan City, LA 70381

Location: 503 S. Degravelle Rd., Amelia, LA 70340

Phone: 985.631.2187

Fax: 985.631.2442 or 985.631.0377

Website: dsgom.com



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