

A Crane or Small Boat Davit

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This unit is a Portable Crane consisting of the Fabricated Boom with Winch Mounting Pad, a Column of Schedule 40-2V2" steel pipe and two Fabricated Brackets permanently mounted on the wood bulkhead.

The fabricated boom consists of top and bottom stringers of 1/4" steel plate, cheek pieces or webs of W and winch seat and tip plates (for the sheave mount) of 1/4" plate. Formed into the boom at an angle of 120° is a section of 3" steel pipe which telescopes over the pipe column. This arrangement allows full circle rotation.

All material was flame cut by hand, tack welded into place and finish welded. All exterior welds were ground and the unit primed and painted to resist salt atmosphere corrosion.

The winch is a single-reduction (5:1 ratio) commercial

unit fitted with an extra long fabricated crank to give an average overall mechanical advantage of about 40:1.

The hoist cable is 1/2" diameter galvanized aircraft cable with a safety hook.

The brackets were fabricated from 1/2" plate and 3" pipe sections.

Statistics:

Capacity: Estimated at 1 ton

Reach: 44" center line of column to hook centerline

Weight of Boom: Approximately 60 pounds.

To launch and recover a thirteen foot "Boston Whaler" using a three-leg cable bridle. (Weight: approximately 500 pounds).

