

ABSTRACT

RIGGING AND WIREROPE TESTING EQUIPMENT – STRUCTURAL LIFTING FRAME ARRANGEMENT

Abstract

5 Lifting apparatus or lifting frame arrangement is for the carrying out load tests and/or
the tensile strength of the wire ropes, used by maritime vessels's cranes, to load and
un-load cargo from the said vessels.

With reference to Figure 1, the lifting arrangement or device comprises of (1) a Safe
10 Working Load (otherwise known as an "S.W.L") lifting frame, (2) an S.W. L. double-
column spreader frame with trunnions placed on each head of the columns, (3) a pair
of single column spreader beams with equally spaced trunnions on the sides of the
column, (4) refillable water bags which act as test weights / loads, (5) rigging gear
such as shackles, pins, wire-rope slings, (6) lifting lugs, load cells, and double-
15 aperture link plates.

In the market for crane-testing on board vessels, the technical problem faced has
always been the limit as to the tonnage of test weights that can be carried out on
cranes on board vessels. With this lifting arrangement or apparatus, the load test can
20 reach weight limits which have previously not been able to be achieved.