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Product Name :
Unit For Studying Forces In A Jib Crane

Product Code :
LBNY-0005-13000036



Description :

The unit represents a planar central force system in which multiple forces act on a single point of application. The compression jib and the tension tie make up the jib crane, which is attached by adjustable clamping elements to a retaining bar. It consists of a bar of adjustable length (compression jib) and a chain (tension tie), which is adjustable, and both incorporate a spring balance to measure the bar forces in them. The Unit for studying Forces in a Jib Crane is designed to study the tensile and compressive forces in a planar central force system based on the example of a jib crane. Based on the example of a jib crane, forces are determined experimentally, theoretically and graphically: resultant cable force, tensile force and compressive force. The magnitudes and directions of the forces are graphically determined with a force parallelogram. A weight holder and a set of weights apply loads to the jib crane through the junction of the compression jib and the tension tie.

Technical Specification :

Unit For Studying Forces In A Jib Crane



Laboratory Instrument India

