

Product Name :
Jib Crane Apparatus

Product Code :
ENGLABINGCAG2900017



Description :

Jib Crane Apparatus

Technical Specification :

This unit is designed to study forces in jib crane elements.

The unit consists of a metallic rod which provides the support locations for jib and tie.

Jib crane has two elements which are attached to a vertical rod.

The lower element is called jib and the upper element is termed as tie.

Load is applied at the junction of jib and tie to produce tension and compression in tie and jib respectively.

Load is applied via a hanger on the junction of jib and tie.

To measure the deformation in jib and tie, dial gauges are connected to both elements.

A planar central force system in which multiple forces act on a single point of application.

Based on the example of a crane jib, forces are determined graphically and experimentally: resultant cable force, tensile force, compressive force.

The directions and magnitudes of the forces are determined graphically by way of a force parallelogram.

A bar of adjustable length and a chain make up the crane jib, which is attached by adjustable clamp elements to a retaining bar.

A variety of jib forms can be created.

Loads are applied to the crane jib.

The occurring bar forces are indicated by integrated spring balances.



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