



THE LAB EQUIPMENT

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**Product Name :**

Two Pinned Arch

**Product Code :**

SLE/EG/13



## Description :

- Students apply loads to hangers suspended from the arch, held between two supports.
- One support allows rotational movement only, acting as a pinned support.
- The other support allows translational movement, acting as a roller support.
- A load cell prevents the translation, while measuring the horizontal reaction due to the load.
- Each support includes pointers that work with the scale on the platform for accurate positioning.
- Students use textbook equations to predict the reaction forces due to the load, comparing them with measured results, and learn how to create the influence line and bending moment diagrams.
- This helps confirm the reliability of the textbook equations and the accuracy of the experiment results.
- This product includes additional masses so students may apply a uniformly distributed load (UDL) across the span of the arch for comparison of results with a single point load.
- The load cell connects to the USB interface hub of the Structures platform for computer display and data acquisition.

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