



## HST5 SEMI-CIRCULAR ARCH HST5A



**Year 3**  
study

### Features

- Semi-Circular arch for HST5
- Fit compatible with HST5
- Same experiments as HST5 but different shaped arch

### Description

Semi-Circular arch for HST5

### Related Laws/Applications

- Simpsons Rule.
- Influence Lines.
- Horizontal Thrust
- Model Analysis

### Learning capabilities

- Examines relationship between applied loads and horizontal thrust
- Comparison of horizontal thrust at springing with simplified theory
- Verifies model analysis theory
- Uses influence line for horizontal thrust
- Derivation of influence line for horizontal thrust
- Model analysis evaluation of horizontal thrust

### Technical Specification

- Semi-circular arch with a uniform section 40 x 8 mm
- Span: 1 m
- Rise 0.5 m
- Pinned and roller arch ends
- Vertical loading from seven equi-spaced points across the arch (125 mm intervals)
- Pins for model analysis fitted at each load point

### Essential Ancillaries

- HST5

**What's in the Box?**

- 1 x Semi-circular arch

**You might also like**

- HST2
- HST4
- HST18

**Weights & Dimensions**

- Weight: 5 kg
- Length: 1100mm
- Width: 100mm
- Height: 550mm

**Essential Services**

- HST5

**Operational Conditions**

- Storage temperature: -10°C to +70°C
- Operating temperature range: +10°C to +50°C
- Operating relative humidity range: 0 to 95%, non condensing

**Ordering information**

To order this product, please call PA Hilton quoting the following code:  
HST5a

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