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Advanced Manufacturing

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**Materials**

Box/Base-- Hollow Wooden Box: 11x10x7 in.

Cam 1-- Wooden Circle: Radius 2 in. Height 2 in.

Cam 2-- Wooden Circle: Radius 1.7 in. Height 2 in.

Cam 3-- Wooden Circle: Radius 2.45 in. Height 2 in.

Dowels-- Radius .25 in. Height 12 in.

Dowels-- Radius: .375 in. Height 4 in.

Crank (Base) -- Wooden Circle-- Radius 3 in. Height .75 in.  
Crank (Grip) -- Wooden Circle-- Radius .25 in. Height 1 in.

**Parts**

These materials are used in the following parts, respectively. Each is followed by the quantity required.

Box/Base (1)

Cam 1 (2)

Cam 2 (2)

Cam 3 (2)

Horizontal Rod (2)

Crank (2)

Vertically Moving rods (6)