



Features

- This apparatus set up on the lab bench using a stand base. The block and tackle can be expanded to three pairs of pulleys and can support loads of up to 20N. The pulleys are mounted virtually friction free in ball bearings and for inclined plane, two forces are measured for various angles of inclination using precision dynamometers.
- The fixed pulley, loose pulley and block are example of simple machine and represent the most accessible introduction to the concept of work in mechanics. For the motion of incline an angle can be describe most easily when the force exerted by the weight on the body

Technical Specifications:

- Pulley, D: 50mm
 - Cord groove, friction bearing, axial plug-in pin & socket
 - Plug and socket diameter: 4 mm each
 - Pulley diameter: 50mm
 - Sockets on pulley disc: 4 in 25mm
- Pulley, Ø 100mm, plug-in
 - Cord groove, friction bearing, axial plug-in pin & socket
 - Pulley diameter: 100mm
 - Sockets on pulley disc: 2 over 25mm, 6 over

- 50mm
- Pulley bridge
 - Unbreakable plastic rod for plug-in
 - Attachment for up to 4 pulleys. Any other components with 4mm plug pin
- Plug-in axle
 - Rotary level fixing
 - Diameter of axle: 4mm
 - Diameter of plug pin: 4mm
 - Total length: 5.5cm
- Weigh 50g
- Load hook
 - Single pulleys and pulley arrangements
 - Plug diameter: 4mm
 - Length: 7cm
 - Coupling plug
 - Connection 2 appliances with 4mm plug
 - Length: 4cm
- Support clip
 - Securing: dynamometers, helical springs
 - To stand equipment with 4mm bore
 - Plug diameter: 4mm
 - Total length: 3.5cm
 - Width: 1 cm
- Dynamometer, tension and compression, 1.5N
 - With scale on transparent tube
 - Protection against overloading the spring
 - Support ring swings to side for compression measurement
 - Without compression rod
 - Range: 1.5N
 - Division: 0.1N
 - Length: 16cm
- Dynamometer, tension and compression, 3N
 - With scale on transparent tube
 - Protection against overloading the spring
 - Support ring swings to side for compression measurement Without compression rod
 - Range: 3.0N
 - Division: 0.1N
 - Length: 16cm
- Pointer, pair
 - For stand rods with diameter of 10 mm and 12mm
- Cord
 - Linen thread
 - Color: white
- Scissors
 - Rounded ends
 - Length: 125mm
- Stand base MF
 - Sockets for 4mm plugs
 - Span width for vertical rods: max 131mm or ½ inch
 - Bore for base rods: each 10mm diameter
 - Plug-in bores: 4mm diameter
 - Dimensions: 18.5 x 4 x 3.5 cm

Note: Specifications are subject to change.

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- Support block
 - Attaching add-ons with 4mm holes
 - 4mm plugs to stand rods or tubes
 - Plug-in bores: 8, 4mm diameter
 - Span width for rods and tubes: max 13mm or ½ inch
 - Dimensions: 5 x 6 x 3cm
- Universal boss-head
 - Span: rods and tubes of up to 13mm diameter
 - Span: plates up to 50mm thick
 - Material: cast aluminum
- Stand rod
 - Solid corrosion-resistant special steel
 - Diameter: 10mm
 - Length: 25cm
- Inclined plane
 - Forces parallel to plane and normal forces
 - Scale running along the plane and base
 - Angle of inclination can be adjusted
 - Incline plane: 1 unit
 - Low friction trolley: 1 unit
 - Dynamometer: 1N
 - Sliding square: 1 unit
 - Support block: 1 unit
 - Inclined plane: length 50cm
 - Base: length 56cm
 - Trolley mass: 100g
 - Max. angle of inclination: 45°
- Precision dynamometer
 - Consist of alternating red and white divisions
 - 10 marking
 - Strong plastic sheath
 - Precision: +/- 0.5% of max. value
 - Scale length: 10cm
 - Zero-point displacement: up to +2cm
 - Range: 1.0N
 - Division: 10mN
 - Length: 19cm

Manuals

- This unit is supplied with the manuals showing theory, product explanation, experiments & maintenance details.

Required Services

- Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manual.

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