EF SERIES

DYNAMICS

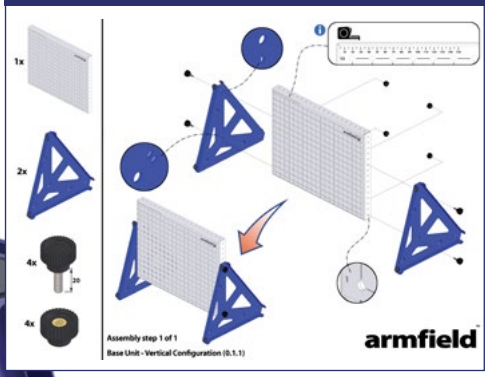
Centrifugal and Centripetal Force – EF-2.5

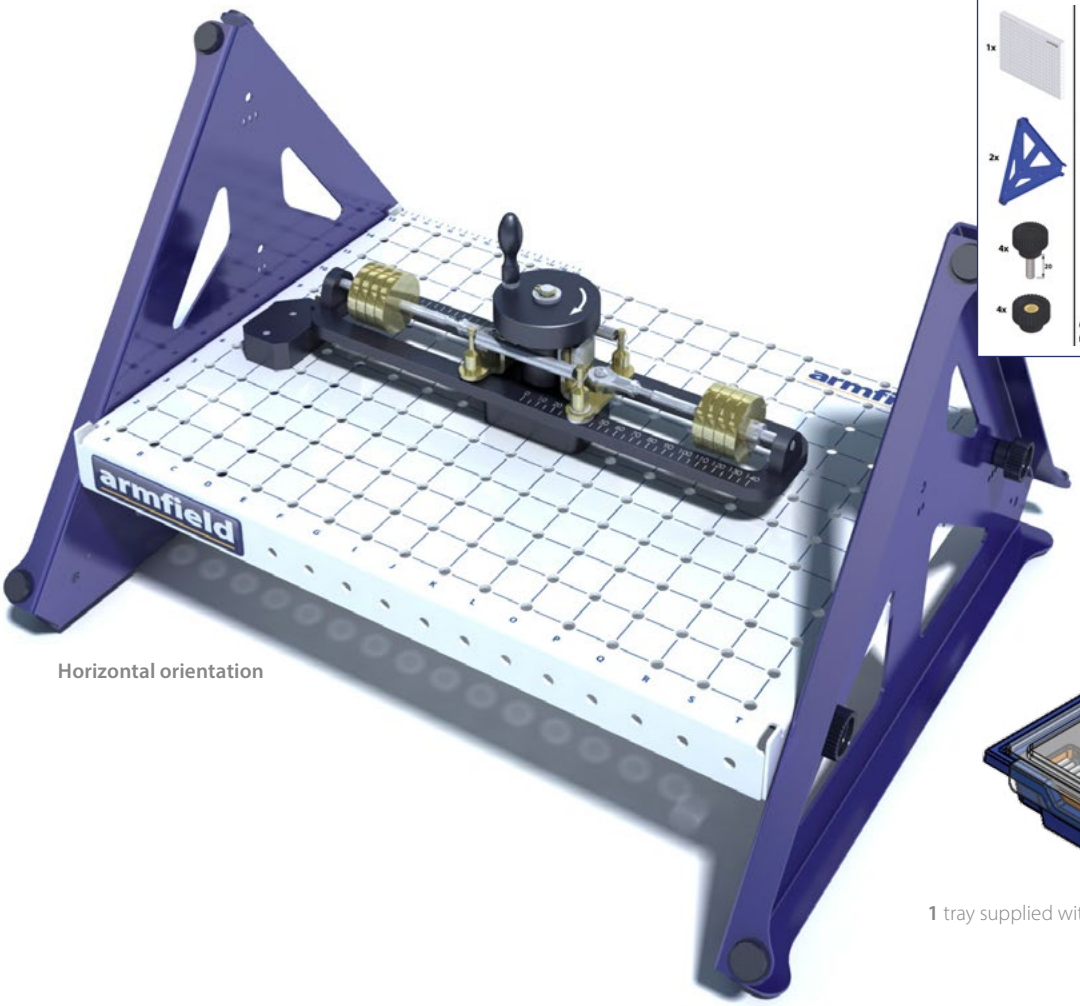
The Engineering Fundamentals range enables students to gain an understanding of the principles of engineering by the process of learning via experimentation.

The EF-2.5- Centrifugal and Centripetal Forces kit enables students to demonstrate the relationship between centrifugal force, radius and velocity of rotating masses.

AN INNOVATIVE HANDS ON MODULAR SYSTEM DESIGNED TO ENABLE INVESTIGATION AND THE UNDERSTANDING OF ENGINEERING PRINCIPLES

Easy to follow instructions

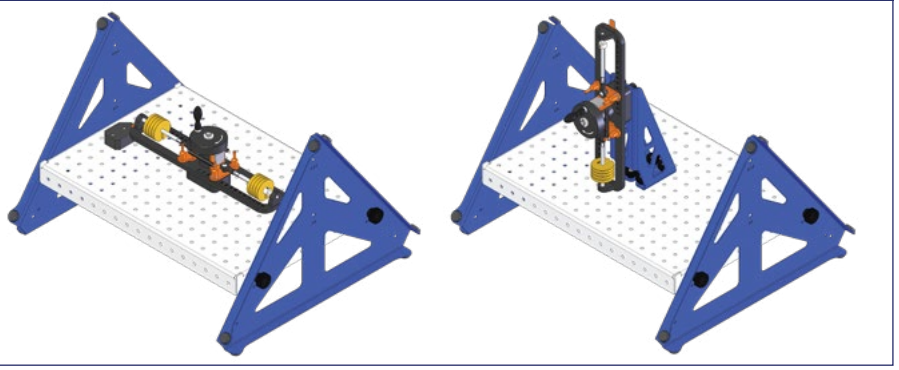




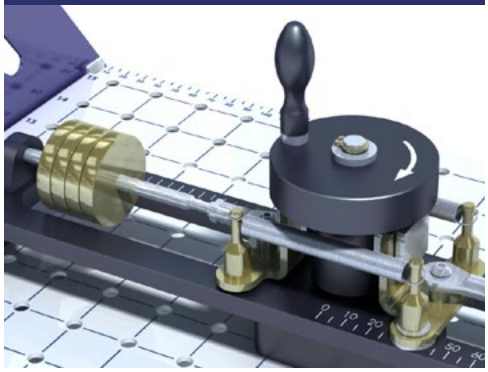
Horizontal orientation

1 tray supplied with **EF-2.5**

Centrifugal force experiments shown below, horizontal orientation and vertical orientation



High quality materials



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Issue: 1
URL: http://www.armfield.co.uk/ef

Applications
ME ChE CE IP

Engineering fundamentals system

The modular tray-based system is supplied in conjunction with a multifunctional work panel enabling the student to conduct their own experiments in subjects such as statics, dynamics, mechanisms and kinematics.

Each kit is supplied with a highly visual user-friendly operational guide, allowing the student to understand the theory of the subject by the application of practical experimentation.

Requirements Scale

EF-BU

Experiment tray scale EF-BU scale EF-WS scale

- EF-BU on which to build the experiment from the tray components
- Level and stable work surface to mount the EF-BU upon. The optional EF-WS is ideal for this if no suitable desk or bench is available.

Experimental content

Centrifugal & centripetalforce

Relationship between centripetal force, radius and velocity of different rotating masses

Workstation EF-WS
(Trays and base units sold separately)

Overall dimensions

Tray	
Length	0.430m
Width	0.312m
Height	0.080m
Packed and crated shipping specifications	
Volume	0.2m^3
Gross weight	5.0Kg

Features / benefits

Features

- Neatly presented in an easily identifiable and durable storage tray
- Trays have clear lids making it easy to see their contents
- Pictorial tray contents list to identify missing components easily
- Accompanied by a detailed manual with various practical exercises
- Clear and concise assembly instructions for each experiment
- Multiple experiments per kit
- Toolless assembly

Benefits

- Hands-on understanding from lessons
- Improve the student's dexterity by self-assembly with the instructions provided

Essential accessories / equipment

- **EF-BU** Base Unit

Related products

- **EF-BU** Base Unit

Statics Experiments

- **EF-1.1** Engineering Fundamentals Forces
- **EF-1.2** Engineering Fundamentals Moments
- **EF-1.3a** Engineering Fundamentals Beams
- **EF-1.3b** Engineering Fundamentals Trusses
- **EF-1.4** Engineering Fundamentals Springs
- **EF-1.5** Engineering Fundamentals Torsion

Dynamics Experiments

- **EF-2.1** Engineering Fundamentals Friction
- **EF-2.2** Engineering Fundamentals Simple Harmonic Motion
- **EF-2.3** Engineering Fundamentals Rotational Friction
- **EF-2.4** Engineering Fundamentals Potential and Kinetic Energy
- **EF-2.5** Engineering Fundamentals Centrifugal & Centripetal Force

Mechanisms Experiments

- **EF-3.1** Engineering Fundamentals Cam, Crank and Toggle
- **EF-3.2** Engineering Fundamentals Mechanisms
- **EF-3.3** Engineering Fundamentals Additional Mechanisms
- **EF-3.4** Engineering Fundamentals Bar Linkages

Kinematics

- **EF- 4.1** Engineering Fundamentals Pulleys
- **EF- 4.2** Engineering Fundamentals Gears
- **EF- 4.3** Engineering Fundamentals Drive Systems

Options

- **EF-WS** Workstation
- **EF1-Spares** Spares

Ordering specification

- Centrifuge box assembly 1
- 1 x Centrifuge assembly 1
- 1x Centrifuge clicker
- 8 x 50g weight
- 1 x Stopwatch,
- 4 x Extension spring

Ordering codes

- EF-2.5 - Centrifugal and Centripetal Force
- EF-BU - Base Unit
- EF-WS - Workstation (optional)

Armfield standard warranty applies with this product

Knowledge base

> 28 years expertise in research & development technology
> 50 years providing engaging engineering teaching equipment

Benefit from our experience, just call or email to discuss your laboratory needs, latest project or application.

An ISO 9001:2015 Company

CE

Products CE certified

armfield.co.uk

Aftercare

Installation
Commissioning
Training
Service and maintenance
Support: armfieldassist.com