EF SERIES

Base unit – EF-BU

The Engineering Fundamentals range is designed to enable students to gain an understanding of the fundamentals of engineering by the process of learning via hands-on experimentation.

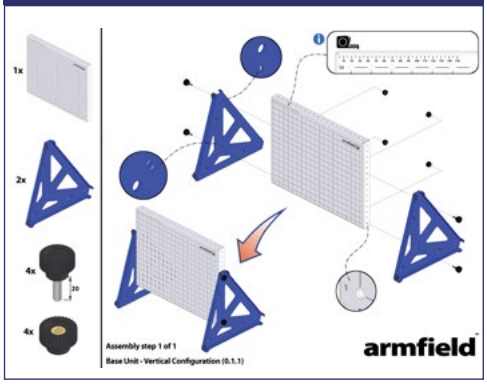
The unique multifunctional base unit (EF-BU) allows the student to carry out a variety of experiments covering Statics, Dynamics, Mechanisms and Kinematics in 4 different configurations.

MULTIFUNCTIONAL AND CONFIGURABLE BASE UNIT TO SUPPORT THE INNOVATIVE ARMFIELD ENGINEERING FUNDAMENTALS RANGE

Description

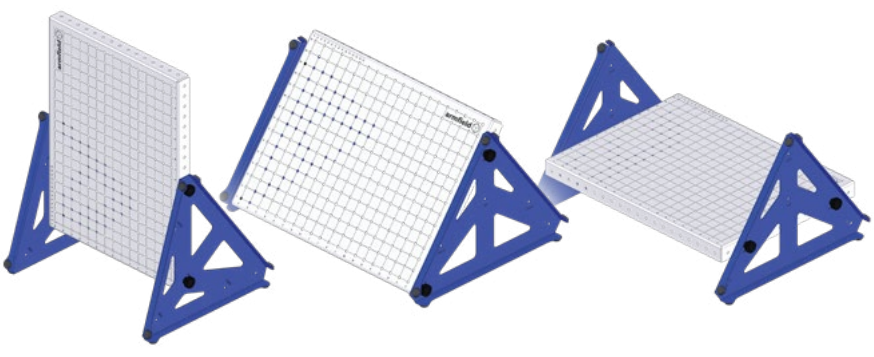
The base unit is easy to set up with no assembly tools needed. The screen-printed design includes a measuring scale to ensure repeatable exercises. The base unit can be set up horizontally, vertically and in inclined positions to suit experiment.

Easy to follow instructions



Experiment trays are sold separately, see **Related Products**

Base Unit - Vertical configuration, Inclined configuration & Horizontal configuration



High quality materials

UK office - email: sales@armfield.co.uk tel: +44 (0) 1425 478781 (for ROW)
USA office - email: info@armfield.inc tel: +1 (609) 208-2800 (USA only)

Issue: 2
URL: http://www.armfield.co.uk/ef
Applications: ME ChE CE IP

Features / Benefits

- Can be assembled in vertical (landscape and portrait), inclined and horizontal configurations (clear assembly instructions provided for each)
- Toolless assembly
- Base Unit backboard has a screen-printed grid reference which all assembly instructions refer to for the location of parts
- Screen-printed design also includes a measuring scale to help identify correct length thumb screws etc.
- Sturdy common base for all EF experiments to be assembled on
- Improve the students dexterity by self-assembly with graphical instructions provided
- Simple grid reference system to assist with assembly of experiments
- Measuring scale included on backboard
- Flat-pack for easy storage

Requirements

EF TRAY

Scale

Experiment tray scale | EF-BU scale | EF-WS scale

- EF- experiment tray/s to build experiments. See selection under related products
- 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

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

Overall dimensions

Length	0.515m
Width	0.390m
Height	0.035m
Packed and crated shipping specifications	
Volume	0.1m^3
Gross weight	10Kg

Note: The dimensions given are for the Base Unit in its flat (stored) form (legs inside the backboard)

Experimental content

The entire EF range designed to work with the Base Unit.
See EF experiment data sheets for specific demonstration / instructional capabilities relating to the topic / experiment tray

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

Essential accessories / equipment

- Topic experiment tray (see related products for available trays)

Ordering specification

- 1 x Back board
- 2 x Leg
- 4 x 20mm thumbscrew
- 4 x thumb-nut

Ordering codes

- EF-BU - Base Unit
- EF-WS - Workstation (optional)
- EF Topic experiment trays (see related products for ordering codes)

Armfield standard warranty applies with this product