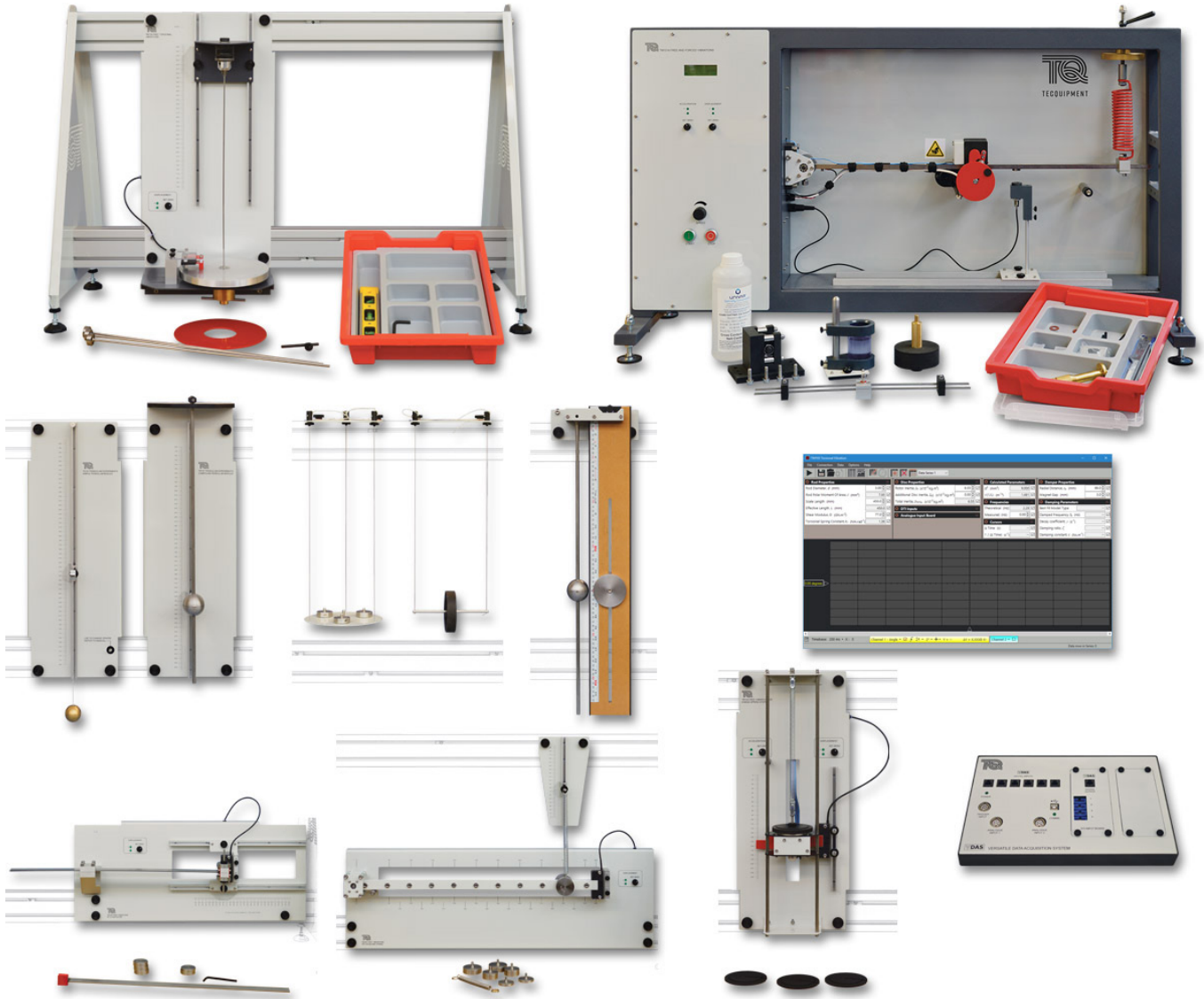




VDAS® TM16S

UNIVERSAL VIBRATION APPARATUS

A complete package of products that offers an extensive list of experiments in both free and forced vibrations.



KEY FEATURES

- A complete package of vibration experiment modules for an extensive choice of experiments
- Includes TecQuipment's unique VDAS® mkII for data acquisition and real-time displays of vibration oscillations
- Comprehensive list of experiments in free and forced vibrations
- Bench-mounting equipment designed for teaching in classrooms and laboratories
- Separate products and experiment modules for use by several students at the same time
- Includes storage trays for smaller parts and simple tools for easy setup of experiments



UNIVERSAL VIBRATION APPARATUS

DESCRIPTION

This package includes all products from the vibrations section of TecQuipment's Theory of Machines range. It offers multiple experiments in both free and forced vibrations, and includes TecQuipment's Versatile Data Acquisition System (VDAS® mkII).

Designed for the classroom and laboratory, the products allow several students to do different experiments at the same time. All experiments are large enough for demonstrations and produce accurate results, yet small enough to fit on a classroom bench.

Using the simple tools supplied, lecturers or students may change experiments in minutes. The storage trays supplied allow users to store the tools and other smaller parts of the experiments safely.

The extensive list of experiments start from the basics of vibration theory including simple harmonic motion, to advanced studies including viscous damping and absorbing vibrations.

TecQuipment's VDAS® mkII captures and records data from many of the experiments, and displays their oscillations in real-time.

STANDARD FEATURES

- Supplied with comprehensive user guides
- Five-year warranty
- Manufactured in accordance with the latest European Union directives
- ISO9001 certified manufacturer

LEARNING OUTCOMES

- Free vibrations (oscillations) in simple, compound, filar and Kater's pendulums
- Centre of percussion
- Free vibrations in cantilevers and a mass-spring system
- Free torsional vibrations and free vibrations in a beam and spring
- Free and forced vibrations in a simply supported beam and a rigid beam with spring
- Viscous damping
- Vibration absorber

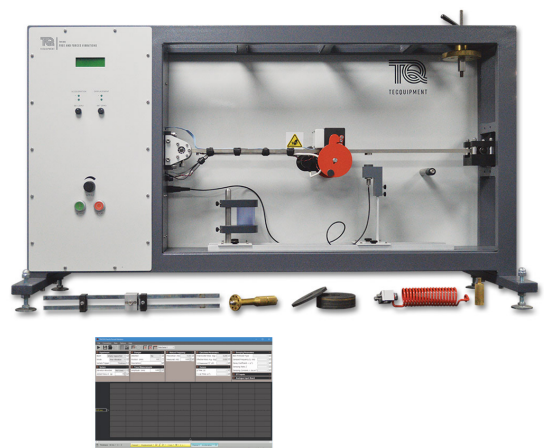
PRODUCTS INCLUDED IN THE PACKAGE

- Free and Forced Vibrations (TM1016V)
- Free Vibrations Test Frame (TM160)
- Simple and Compound Pendulums (TM161)
- Filar Pendulums (TM162)
- Centre of Percussion (TM163)
- Free Vibrations of a Mass-Spring System (TM164)
- 2 x Damper Kit (TM164a)
- Free Torsional Vibrations (TM165)
- Damper Kit (TM165a)
- Free Vibrations of a Cantilever (TM166)
- Free Vibrations of a Beam and Spring (TM167)
- 2 x Damper Kit (TM167a)
- Versatile Data Acquisition System (VDAS-B mkII)

Refer to separate datasheets for full details of each product.



THE TEST FRAME (TM160) WITH THE FREE TORSIONAL VIBRATIONS (TM165) EXPERIMENT MODULE CONNECTED TO VDAS® MKII



FREE AND FORCED VIBRATIONS (TM1016V)