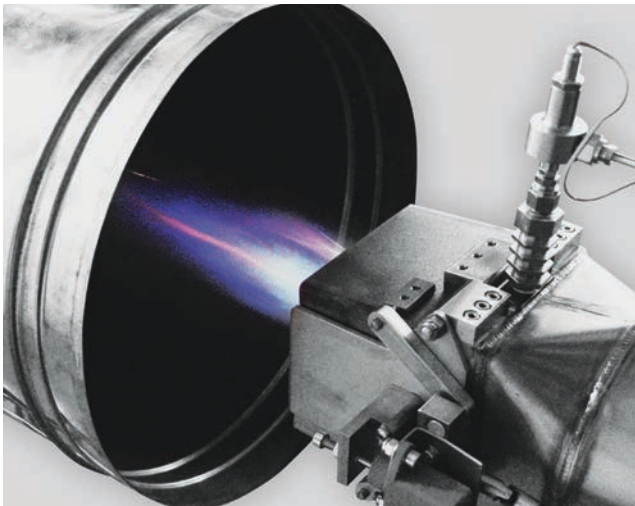


ENGINES

The Engines range offers teaching equipment for a wide variety of engine-specific theory. It covers internal combustion engines, starting with simple four-stroke engines, through to gas turbines/turbojets, along with a steam engine trainer.

The range meets entry level requirements for the general teaching of mechanical engineering. It also addresses the more advanced theories required for final-year students, enabling them to meet the learning objectives required for specific industries, such as aerospace, automotive and power.

 **YouTube** ENGINES PLAY LIST



FEATURES AND BENEFITS:

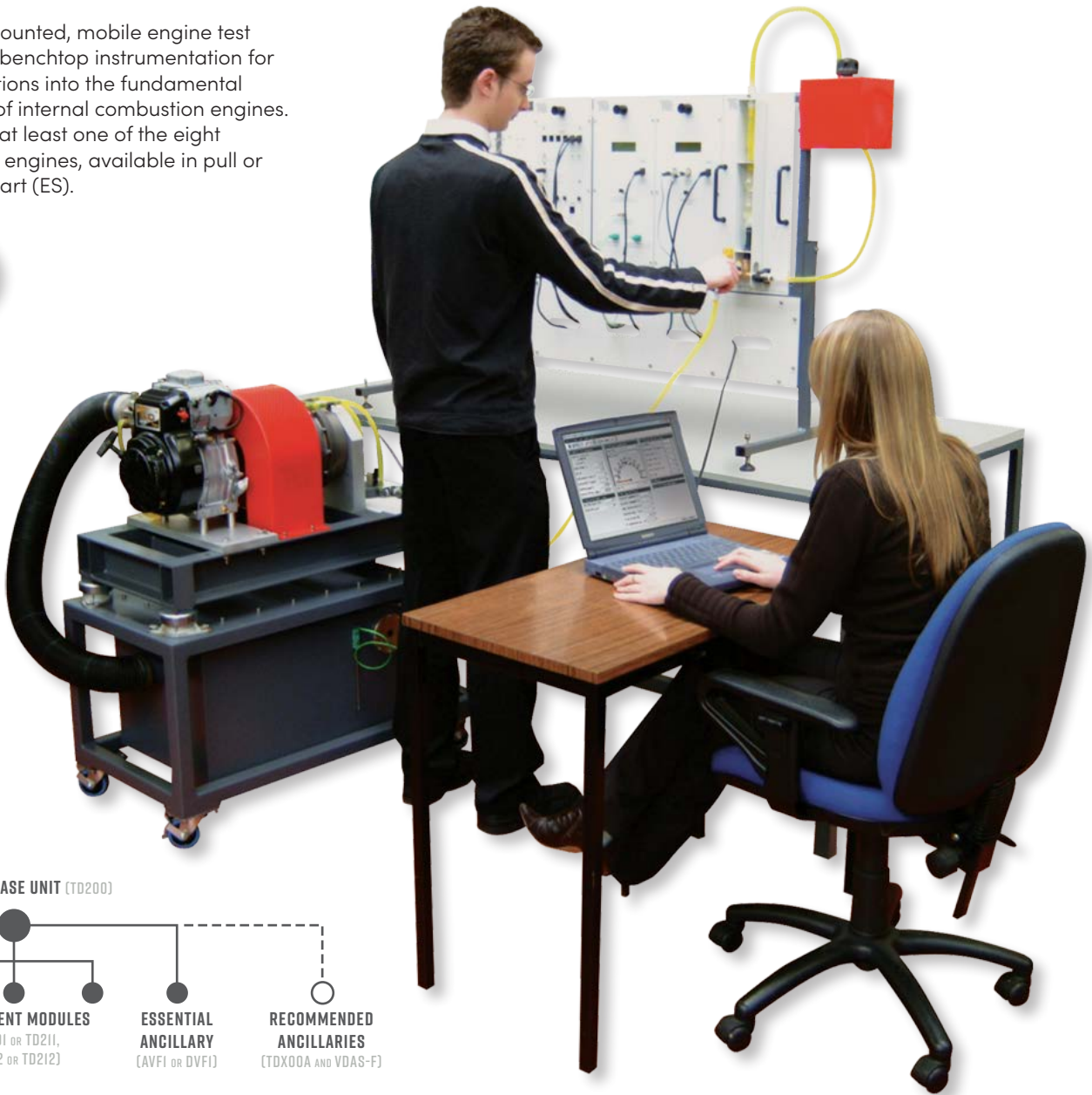
- **MODULAR:** Entry-level packages with further options available.
- **DESIGNED FOR SAFETY:** Suitable for all university student levels, monitoring to achieve thermal equilibrium, making automatic data acquisition a useful tool.



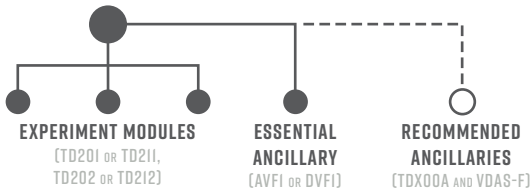
SMALL ENGINE TEST SET **VDAS®**

TD200

Trolley-mounted, mobile engine test bed with benchtop instrumentation for investigations into the fundamental features of internal combustion engines. Requires at least one of the eight available engines, available in pull or electric start (ES).



ESSENTIAL BASE UNIT (TD200)



FOUR-STROKE PETROL ENGINE



FOUR-STROKE DIESEL ENGINE

EXPERIMENT MODULES:

- Four-Stroke Petrol Engine
- Four-Stroke Diesel Engine
- Modified Four-Stroke Petrol Engine
- Modified Four-Stroke Diesel Engine

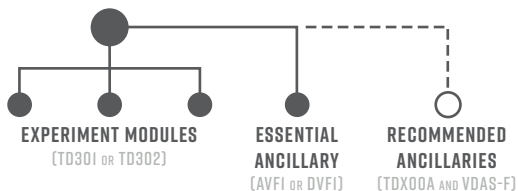
REGENERATIVE ENGINE TEST SET **VDAS®**

TD300

This floor-mounted engine test set, with bench and instrumentation frame, offers the most advanced student investigations into engine performance from TecEquipment. The four-quadrant drive absorbs more power, higher levels of accuracy, has improved speed stability and settles quicker, saving time in the laboratory. Includes extensive instrumentation for comprehensive investigations.

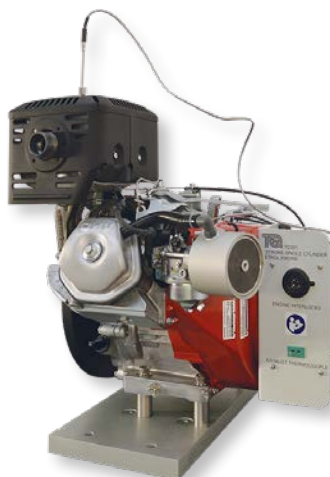


ESSENTIAL BASE UNIT (TD300)



EXPERIMENT MODULES:

- Four-Stroke Petrol Engine
- Four-Stroke Diesel Engine



FOUR-STROKE PETROL ENGINE



FOUR-STROKE PETROL ENGINE

BIRMINGHAM CITY UNIVERSITY

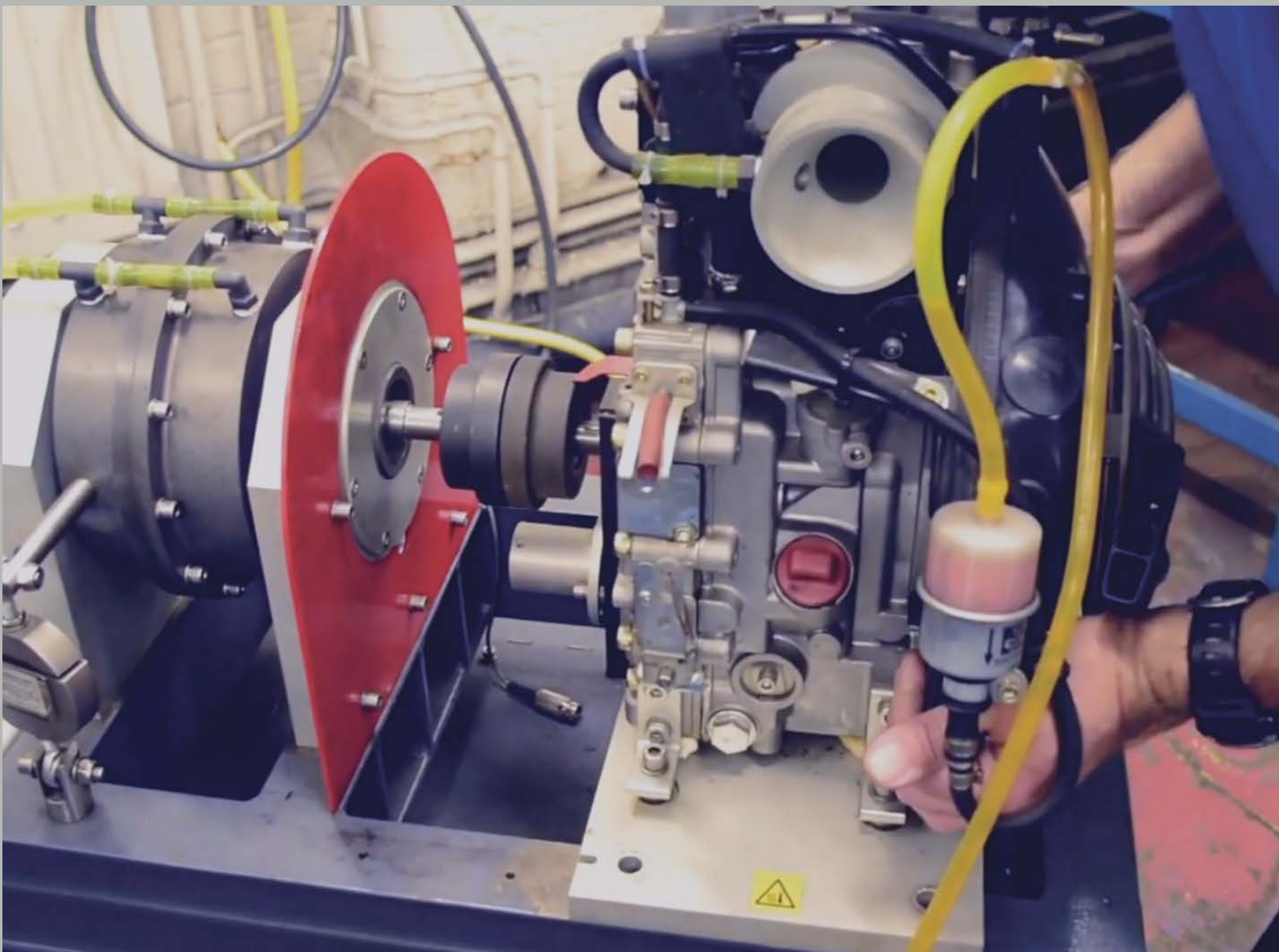
In the various mechanics laboratories at Birmingham City University, an extensive amount of TecEquipment teaching products are used for teaching first and foundation years. For some students they are also central to research in third and final-year projects.

Watch this video to learn what Laboratory Technician Karl Snape likes about TecEquipment products and his favourite piece of equipment, the Small Engine Test Bed (TD200).

“

I summarise my experience of working with TecEquipment to be easy and fluid.

Watch for the full story.

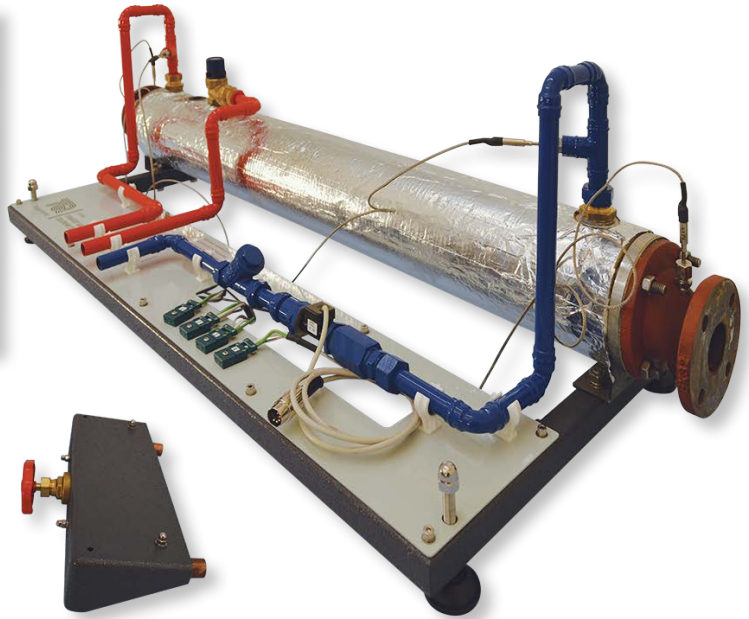


INTERNAL COMBUSTION ENGINE TEST SETS

EXHAUST GAS CALORIMETER **VDAS**[®]

TDX00A

Experiment for use with TecQuipment's Engine Test Sets (TD200 and TD300) to measure the heat content of engine exhaust gases.



AUTOMATIC VOLUMETRIC FUEL GAUGE WITH DIGITAL DISPLAY **VDAS**[®]

DVFI

Frame-mounted automatic fuel gauge with digital display, for use with TecQuipment's Engine Test Sets (TD200 and TD300).



MANUAL VOLUMETRIC FUEL GAUGE

AVFI

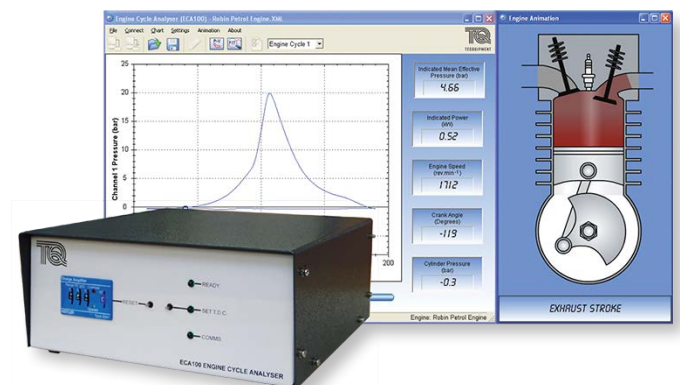
Frame-mounted manual fuel gauge for use with TecQuipment's Engine Test Sets (TD200 and TD300).



ENGINE CYCLE ANALYSER

ECA100

Hardware and software to measure internal combustion engine cylinder pressure and crank angle.

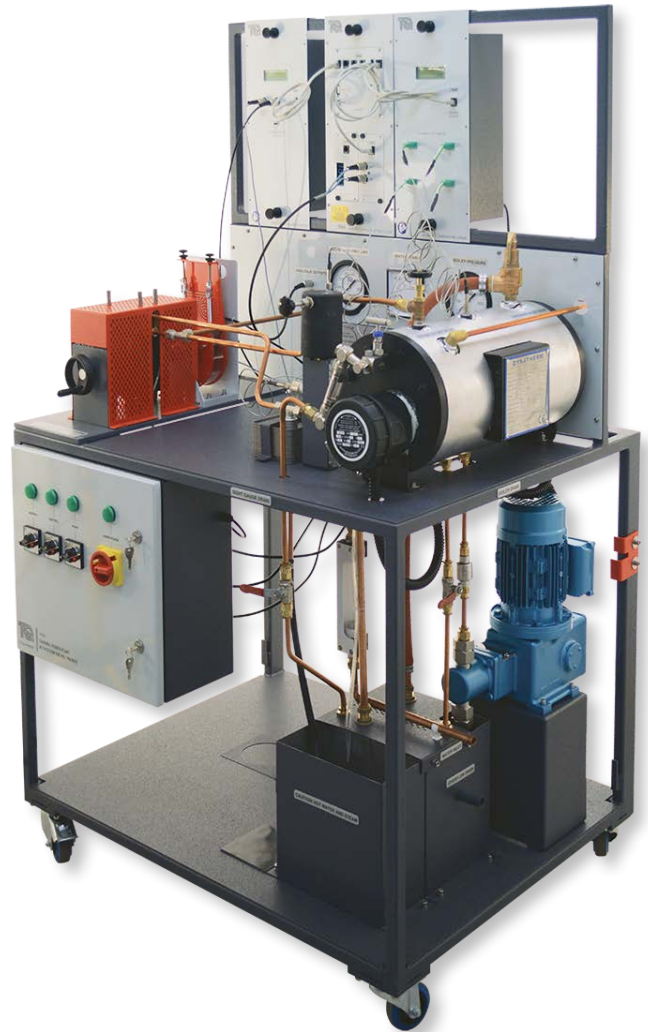
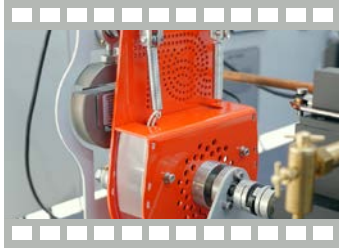


STEAM

THERMAL POWER PLANT **VDAS**[®] WITH STEAM ENGINE TRAINER

TD1050

Trolley-mounted, mobile, laboratory-scale steam plant that demonstrates fundamental thermodynamic principles of energy conversion and mechanical power measurement.



THERMAL POWER PLANT WITH STEAM TURBINE



TD1050T

This laboratory-scale apparatus allows students to investigate the performance of a steam power plant, using a steam turbine to convert thermal energy into mechanical energy and then into electrical energy.



GAS TURBINES

TURBOJET TRAINER **ADA**

GT100

Trolley-mounted, mobile apparatus that allows detailed experiments on how a single-shaft gas turbojet works, and tests its performance.

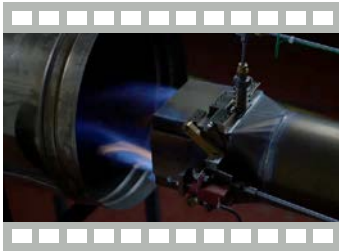


TURBOJET TRAINER WITH REHEAT

ADA

GT100RS

Trolley-mounted, mobile apparatus that allows detailed experiments on how a single-shaft gas turbojet with reheat (afterburner) works, and tests its performance.



TWO-SHAFT GAS TURBINE

ADA

GT185

Trolley-mounted, mobile apparatus that allows detailed experiments on how a two-shaft gas turbine works, and tests its performance.



