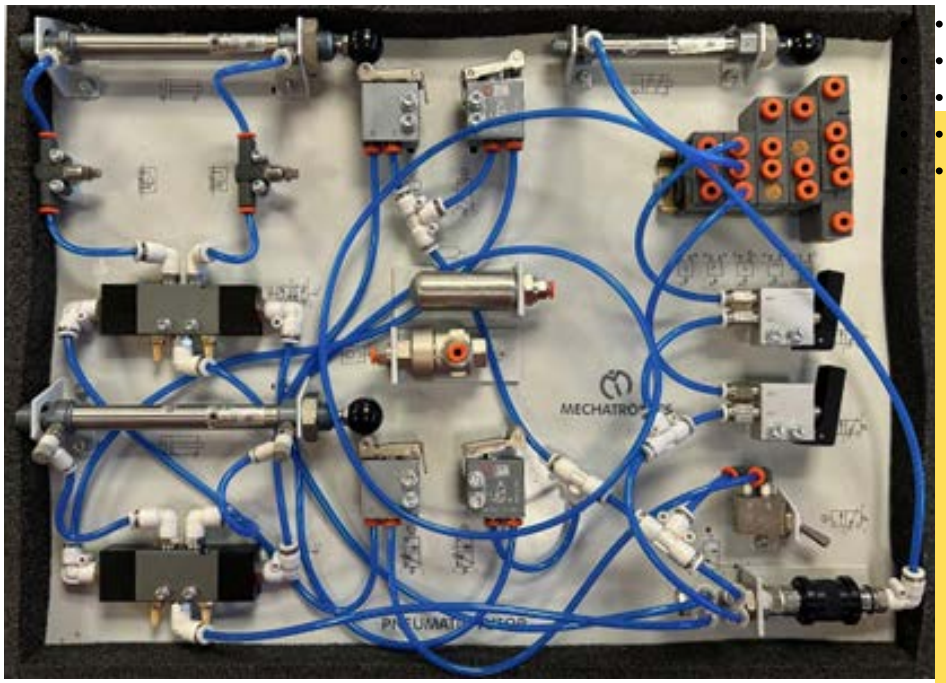
uneek

EDUCATIONAL SOLUTIONS



MECHATRONICS
International Ltd

PRODUCT AND INFORMATON BROCHURE

www.UneekEducationalSolutions.com

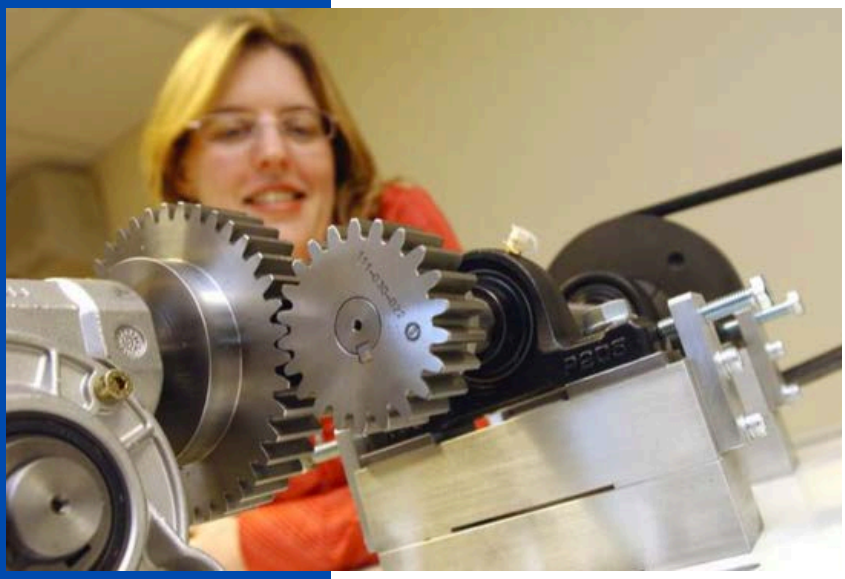
COMPANY PROFILE

MECHATRONICS
International Ltd

A British family owned and run business, established in 1988, based in Staffordshire (Central England) with clients worldwide which include schools, colleges, universities, private training providers, blue-chip companies, government departments and military. The company ethos and mission is to be easy to deal with and have the best products at the best prices supported by the best service. Unlike other companies if we update a product we will always support the earlier versions, no matter when it was purchased, which means clients can always expand at a later date if required and be assured that spare parts are available (so not having to re-invest in new equipment just because the manufacturer has changed their design), this includes offering as standard a 5-year warranty on all MECHATRONICS manufactured products.

www.mech.co.uk

MECHANICAL TRANSMISSION





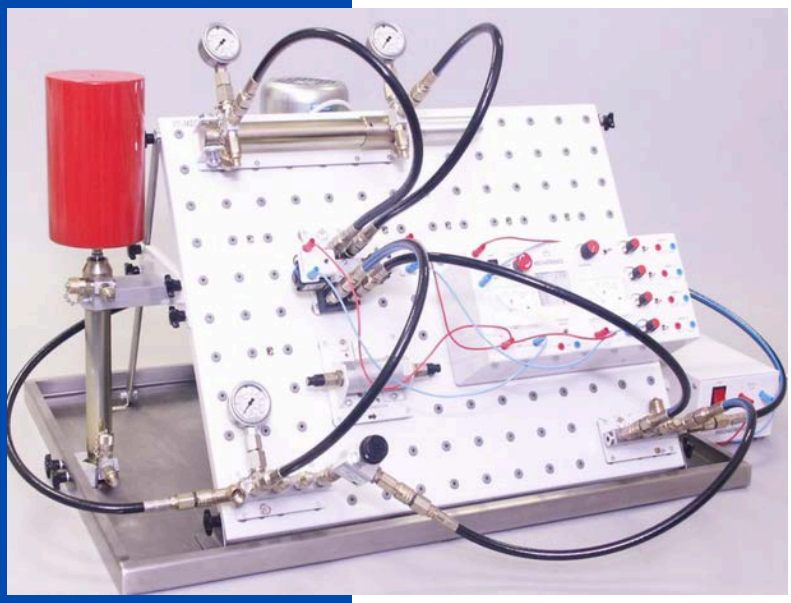
The Mechanical Transmissions Training System has been developed and is built in the U.K. by MECHATRONICS International Ltd, the leading U.K. supplier of engineering training equipment and is a high quality but low cost mobile laboratory trolley based system.

This system has been specifically designed to cover the needs of education and training centres offering training programmes for Mechanical and Maintenance NVQ"s / SVQ"s, Multi-skilling, Cross-skilling as well as Modern Apprenticeships. These systems provide an ideal medium for the practical "Hands ON" requirements of industry, both for today and tomorrow.

The systems are based upon a worktable, which can be supplied as either a complete mobile trolley, including heavy-duty, lockable, equipment storage cabinet, or as a portable unit suitable for transporting from site to site (intended for those involved in offering „on-site" training) or for bench top mounting. Rubber faced castors are fitted to the mobile trolley version, allowing for easy (and quiet) movement from one location to another.

Practical 'Hands ON' training systems for those taking part in Multi-skilling, Cross-skilling, NVQ or Modern Apprenticeship Training programmes

PORTABLE HYDRAULICS



The totally unique Portable Hydraulics Training System from MECHATRONICS has been specifically developed for those who are providing ‘mobile’ training and/or those who require to maximise the availability of valuable laboratory or classroom space.

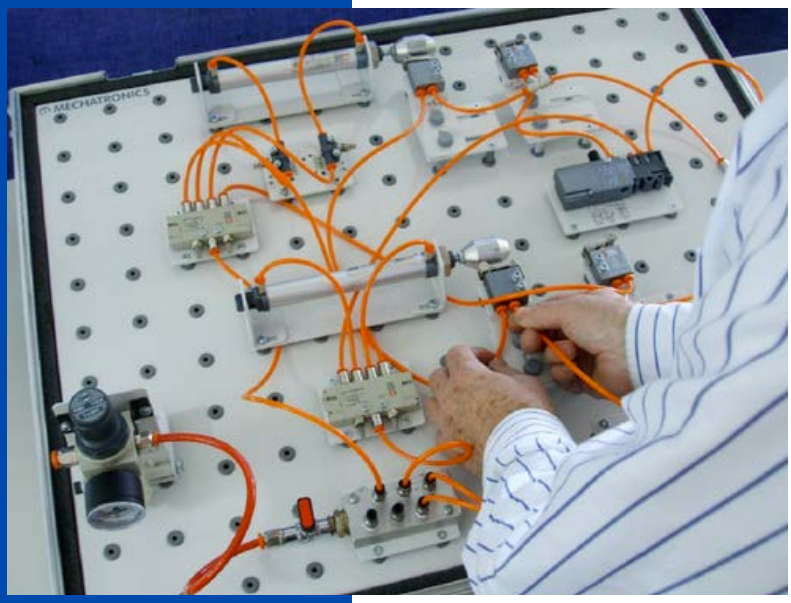
Practical ‘Hands ON’ training systems for those taking part in Multi-skilling, Cross-skilling, NVQ or Modern Apprenticeship Training programmes

This system can be easily transported from location to location and packed away when not in use, thereby freeing up valuable space for the teaching of other subjects.

The system is extremely clean in use, due to the true ‘FLAT-FACE’, quick-connect, self-seal, couplings used throughout, a 1st for hydraulic training equipment. All electrical connections are made via shrouded safety sockets and safety plugs.

The components available cover a wide range of actuators, directional, pressure and flow control in hydraulics, electro-hydraulics and proportional hydraulics, more extensive circuits and controls can be built by connecting to the P.L.C. training systems from MECHATRONICS. All components can be stored / transported within the lockable, heavy-duty, aluminium framed storage / transit cases.

PORTABLE PNEUMATICS



The Portable Pneumatics Training System from MECHATRONICS has been specifically developed for those who are providing ‘mobile’ training and/or those who require to maximise the availability of valuable laboratory or classroom space.

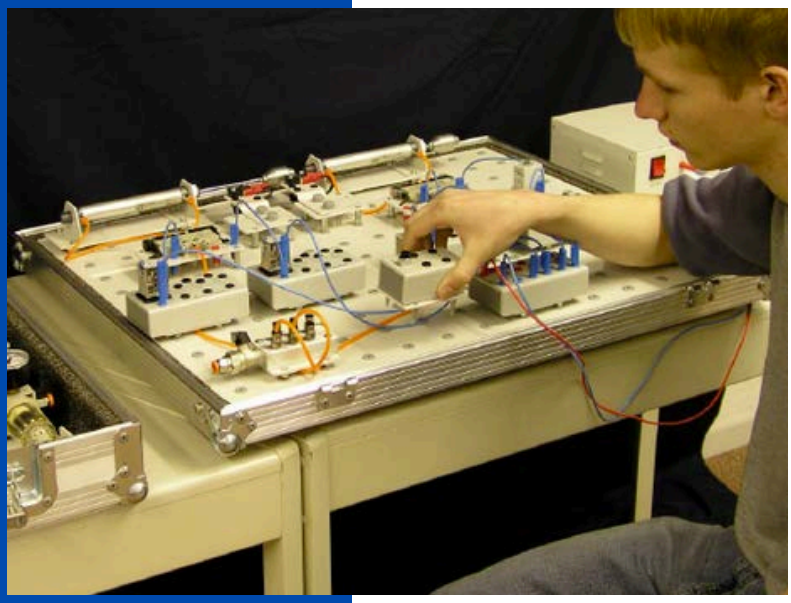
Complete packages of Courseware and Teachware, including purpose designed practical exercises are also included to fully support the training hardware. A ‘total system’ can therefore be supplied that is ‘ready to use’ without the need for precious development time.

This system can be easily transported from location to location and packed away, when not in use, thereby freeing up valuable space for the teaching of other subjects. The system is extremely clean, safe and easy to use, utilising high quality push-in pneumatics fittings throughout.

All the components used in the system are genuine industrial items that are widely used in various industries worldwide. The components are quickly and easily mounted on the circuit building panel with a simple push fit, eliminating the requirement for any tools. The complete assembly, test and disassembly of circuits is therefore rapid, easy and efficient, thus maximising the time available when ‘putting the theory into practice’.

The components available cover a wide range of actuators, directional, flow and pressure control, as well as sensors in pneumatics, more extensive circuits and controls can be constructed and tested by easily connecting to the MECHATRONICS Electro-pneumatics and P.L.C. training systems. All components, along with a circuit building panel are contained in a lockable, heavy-duty, aluminium framed storage / transit case.

ELECTRO-PNEUMATICS



The Portable Electro-pneumatics Training System from MECHATRONICS has been specifically developed for those who are providing ‘mobile’ training and/or those who require to maximise the availability of valuable laboratory or classroom space.

The Portable Electro-pneumatics Training System from MECHATRONICS has been specifically developed for those who are providing ‘mobile’ training and/or those who require to maximise the availability of valuable laboratory or classroom space

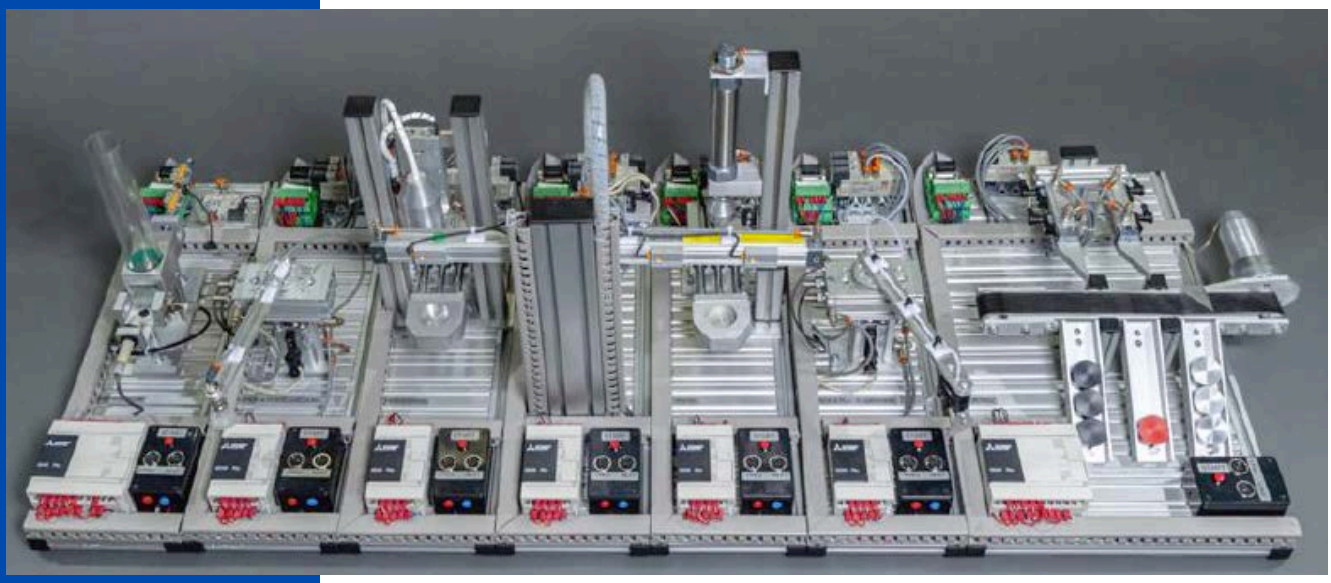
The components available cover a wide range of actuators, directional, pressure and flow control, as well as sensors in pneumatics and electro-pneumatics, more extensive circuits and controls can be constructed and tested by connecting to the P.L.C. training systems from MECHATRONICS. All components, along with a circuit building panel are contained in a lockable, heavy-duty, aluminium framed storage / transit case.

Complete packages of Courseware and Teachware, including purpose designed practical exercises are also included to fully support the training hardware. A ‘total system’ can therefore be supplied that is ‘ready to use’ without the need for precious development time.

Support Materials available:-

- **Exercises/Solutions with Question/Answer Papers:**
- **Electro-pneumatics**
- **P. L. C.**
- **OHP Transparencies**
- **Manuals & Textbooks**

Compact Mechatronics System (CMS)



The NEW and unique, low-cost Compact Mechatronics System (CMS) is suitable for teaching the practical aspects of the Engineering Diploma.

Utilising an extensive range of industrial drives and control methods, the CMS consists of a range of differing modules. All of which can be used independently, or alternatively can be connected, as 2 or more modules, to form part or complete integrated systems, simulating a production process.

Students from all levels will benefit from training on the CMS due to simple functions and operations being the basis of each module but by combining modules into an integrated system the complexity can be increased, as and when required, all that is required to power the system is a compressed air supply and single-phase electrical supply (100 -260V 50hz or 60Hz).

Each module is built onto an extruded aluminium profile panel and supplied completely assembled, plumbed, wired, and tested, ready for use. Included with each module are the required power, control, connection and interlinking cables, along with programming software, manuals and exercises.

There are a range of MECHATRONICS CMS modules available, which are being constantly expanded, to cover an ever-widening range of technologies. Each module can be used as a stand-alone unit or combined with others to create a low-cost, yet simple to use system.

As the modules are available separately, it is possible to purchase them as and when budgets allow, or requirements change, the system can then be built up, over a period of time, it is not essential to purchase the complete system on day one, which can be overpowering to staff as well as students and is therefore little (or never) used, it also means the system will not become outdated or redundant, being expandable to meet your future requirements.

MECHATRONICS

MECHATRONICS
International Ltd

Compact Mechatronics System (CMS)



Pick & Place with Vacuum



Distribution



Processing



Transfer



Pick & Place with Gripper



Pneumatic Press

MECHATRONICS
International Ltd

Compact Mechatronics System (CMS)



Sorting

The Compact Mechatronics System (CMS) can be used in numerous configurations, a few examples are shown below:









TRAINING FOR TOMORROW

About Us

Introducing Uneek Educational Solutions

We’re Uneek ES, and we can’t wait to start working together. Your vision is important to us. We’re eager to map out the needs of your school, your educators and your students. STEM curriculum is our specialty, so let us help you find the right solutions for tomorrow.



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EDUCATIONAL SOLUTIONS

WHAT WE DO

- We are your partner in selecting the right educational programs for your technical focus
- Keep you up to date on new technologies and courses
- Utilize our network of contacts to find a provider that fits your needs

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