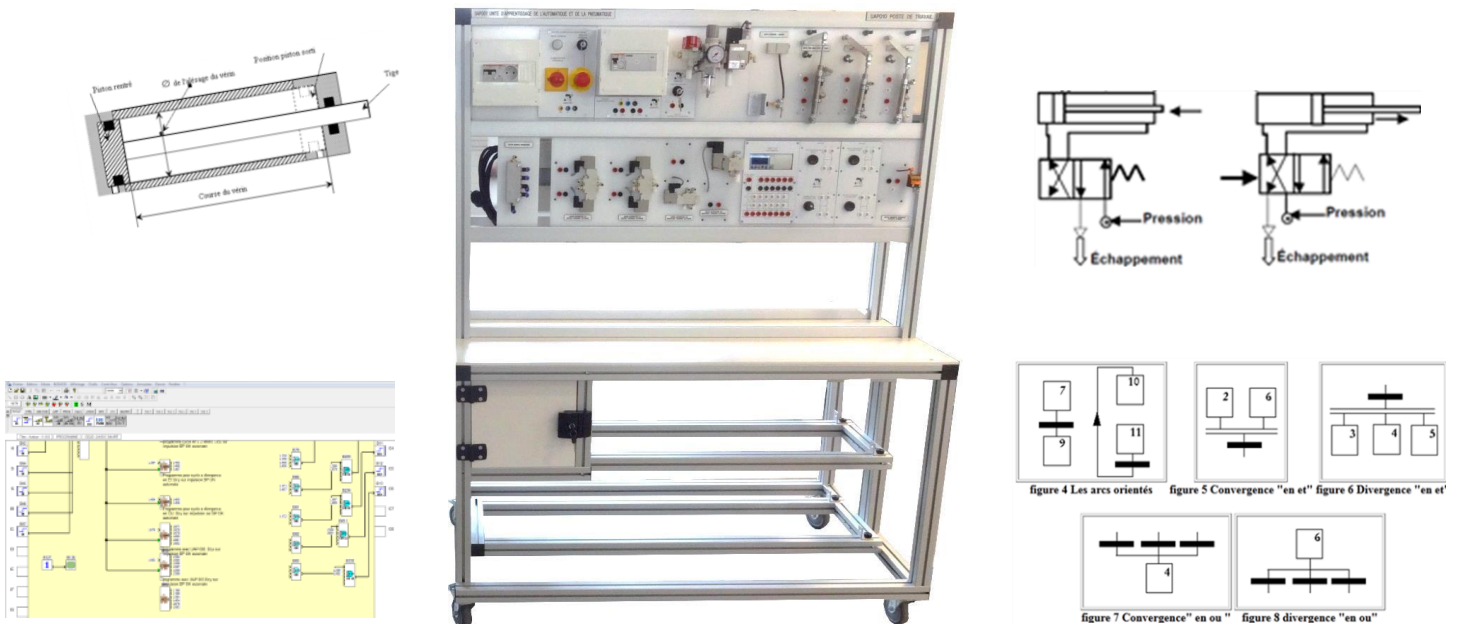


PNEUMATIC IMPROVEMENT UNIT & DOUBLE-SIDED AUTOMATION



PEDAGOGICAL APPLICATIONS

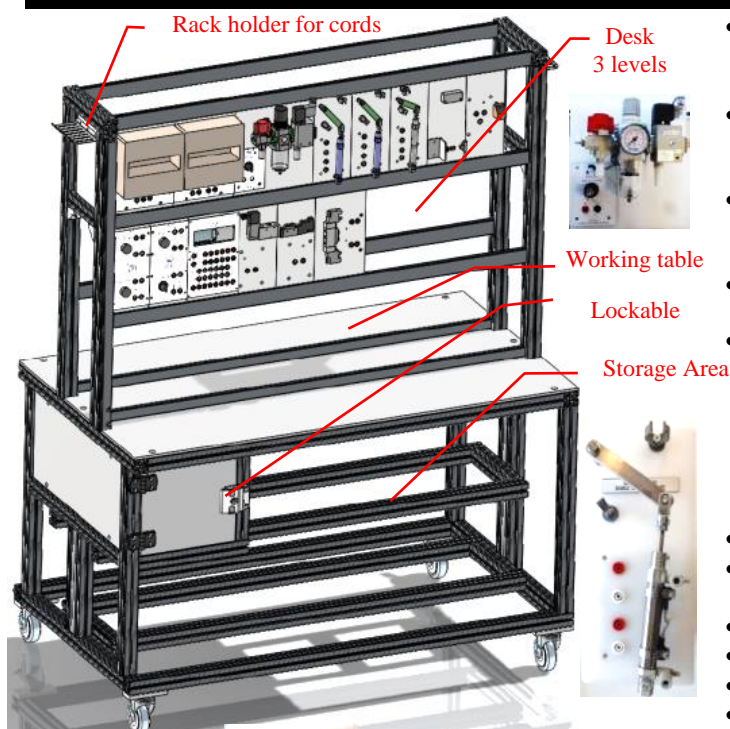
- Improvement activities (creation of complex diagrams then wiring, understanding of sequential logic, programming of a multi-language API) in industrial pneumatics & automation on:
 - The different elements composing a complex chain of action
 - The choice of a type of control & distributor (manual, pneumatic or electric) according to different environments
 - The choice of a type of cylinder according to a specification: single and double effect, iso or compact, rotary with paddles or pinion / rack, hollow rod, anti-rotation or guided, with blocker or without rod
 - Suction cup gripping systems, the operation of a venturi
 - The setting of an analog pressure sensor in pressure switch or vacuostat
 - The choice of a type of sensors (optical, inductive, capacitive, ILS, etc...) according to a type of cylinder & a given application
 - AND/OR functions, check valves, flow/pressure adjustments
 - The creation of a grafcet, programming in different languages (ladder, logic blocks, grafcet) for the implementation of a Cartesian pneumatic manipulator with suction cup with 3 actuators or polar with clamp with 4 actuators
- Training from installation operator to experienced service technician
- Other packs are available depending on the level of training expected or possibility to complete it with modules per unit (contact us):
 - UDP001 : DISCOVERY UNIT IN PNEUMATICS & AUTOMATION
 - UFP001 : TYRE & AUTOMATION TRAINING UNIT

THE ADVANTAGES OF OUR MODULAR CONCEPT

- **Out-of-the-box solution** including a compact double-sided mobile workstation & add-ons
- **Perfect compatibility** with the modules of the UAE electrotechnical range allowing you to offer mixed activities with implementation of electric & pneumatic actuators
- **Lightweight & robust anodized aluminum structure** mounted on 4 swivel wheels equipped with brakes
- **Contained dimensions** facilitating travel between your different workshops, classrooms or training centers
- **Material representative of the industry** (brands, dimensions, robustness, functions)
- **Scalable solution** thanks to the **many modules available** (contact us).
- The manufacture of this equipment complies with the **European Machine Directive**
- **Maintenance activities** by installing electrical and/or pneumatic wiring faults
- **Control of actuators manually or via 6 programs pre-installed** in the PLCs to optimize the time of work sessions and facilitate the work of trainers

Module illustrations

Content & technical specifications of the package



- 1 WORKSTATION, for each side: vertical assembly desk without tools of modules, work table, storage of key accessories, storage area of unused modules
- 2 POWER SUPPLYS 230VAC + 2 IN 24VDC : disconnector, circuit breaker 30mA, voltage indicator, key power supply, double well sockets, fuse
- 2 PNEUMATIC POWER SUPPLY S WITH KEY: padlock disconnector, filter, regulator, pressure gauge & progressive pressurization
- 1 OPERATIVE PART CARTESIAN MANIPULATOR + 1 OPERATIVE PART POLAR MANIPULATOR
- 2 ISO DOUBLE ACTING CYLINDERS + 2 SINGLE ACTING ISO + 2 COMPACT DOUBLE-ACTING CYLINDERS + 1 A ROD BLOCKER + 1 ANTI-ROTATION + 1 GUIDED + 1 ROTARY SPROCKET/CREMAILLIERE + 1 ROTARY VANE + 1 SUCTION CUP WITH VENTURI: all equipped with flow regulators, ILS detectors socket connections & clips for quick assembly of sensors of various technologies
- 2 INDUCTIVE SENSORS + 2 CAPACITIVE + 2 OPTICS
- 2 PRESSURE SWITCH S / VACUOSTATS + 2 PRESSURE REGULATORS WITH MANOMETER
- 2 LOTS OF 10 Tees + 1 CROWN OF PU PIPE Ø6MM
- 2 CHECK VALVES + 2 FUNCTIONS 'AND' & 2 'OR'
- 2 NEARS WITH 5 SELF-SEALING HOLES
- 2 CONTROL BOXES 2 BUTTONS POUSSENS 2 NO
- 2 CONTROL BOXES 1 SWITCH 2NO + 1 PUSH BUTTON 1NO/1NF
- 2 PLC S 8E-6S RELAY + SOFTWARE + CORD
- 2 BOXES 2 PNEUMATIC PUSH BUTTONS 2/2
- 2 BOXES 2 SWITCHES 2 POSIT PNEUM 2/2
- 1 SET OF 50 CORDS OF 2.5MM² Ø4MM: dimensions 50 to 100cm, red & black
- 2 DISTRIBUTORS 3/2 SINGLE CONTROL PNEUM
- 2 DISTRIBUTORS 5/2 SINGLE CONTROL PNEUM
- 3 ELECTRODISTRIBUTORS 3/2 MONOSTABLE
- 2 MONOSTABLE 5/2 ELECTRODISTRIBUTORS
- 4 ELECTRODISTRIBUTORS 5/2 BISTABLE
- 2 DISTRIBUTORS 3/2 BISTABLE CDE SWITCH
- 2 DISTRIBUTORS 5/2 MONOSTABLE CDE POUSSOIR
- 2 DISTRIBUTORS 5/2 BISTABLE CDE SWITCH



UPP001



Installation specifications

- Power supply: 230 Vac – 50 Hz – 10A
- Power supply type: 1 phase + Neutral + Earth.
- Dimensions: (LxWxH mm): 1400 x 800 x 1800
- Weight (Kg): around 150 depending on the number of modules

Note: As part of an installation of the equipment by our services, all connections to the networks must be located within 2m of the machine

Paper and digital documentation

- Instructions and Evolutionary Practical Work
- Numerous wiring diagrams
- Technical file with documentation of each component
- PLCs supplied with software, cords & 6 programs
- EC certificate of conformity