Workstation systems
Workstation systems
The universal laboratory furniture

Learnline and Learntop
The modular workstation systems for basic and further training. With many practical details to make teaching and learning easier.

With Learnline, you have an integrated storage principle that can be used for training in pneumatic, hydraulic or electrical engineering without the need for modifications. Design and function are combined, which is evident in every practical detail. Learnline consists of basic mobile and stationary units with a cable/oil tray, various modular systems and extension elements, rolling and fixed containers, in addition to special storage systems, attachments and the corresponding accessories. The modular workstation system offers a multitude of configurations and mounting options. Expert consultants in over 50 countries are available to prepare an individual quotation for you.

Learntop is the least expensive worktop support system for entering the world of Festo Didactic training packages at a low price.

Quality from Festo
We don’t make compromises when it comes to quality. Workmanship and functionality are of the highest level. The torsionally rigid design and the high-quality coating of the work surface and frame guarantee a long service life despite many stresses and strains. Learnline can handle the rigorous routine of everyday teaching as well as a vibrating load during hydraulic position control. Even high mechanical forces, e.g. of servo-hydraulics, proportional pneumatics or robotic superstructures, can be easily accommodated by Learnline.

Versatile, flexible and expandable
One glance at the basic structure proves that Learnline meets a multitude of requirements. After all, with just a few individual and well thought-out components results can be achieved which are geared towards the needs of people, the available space and to any technical challenges. The functional profile column is a prerequisite for modularity. As the central attachment point, it opens up a multitude of options for putting together each desired configuration.

All components can be placed anywhere on the slotted assembly board and can be fastened tightly and securely in the profile slot with a T-head nut or the patented Quick-Fix® without any effort and without additional tools. On the slotted assembly board, everything can be exact down to the last millimetre. A mounting system for all technologies and applications.
Planning with the LabCreator
Define rooms in 2D and design in 3D! Use our 3D models and keep up to speed with the automatic software and library updates. Equip your laboratory with learning systems and add your own designs. You can create professional laboratories or entire training centres in just a few steps. The effects will be impressive. Detailed descriptions are available for all learning systems. Download your free LabCreator from the Internet today.

Keeping order
It doesn’t matter whether you keep your training packages in the Systainer or in the container. The storage equipment from Festo Didactic always ensures you have a quick overview. The lockable containers are equipped with self-closing drawer runners and a safety stop. Every drawer holds up to 20 kg. The shipping packaging for the pneumatic and hydraulic equipment sets can be used as orderly drawer inserts. That saves material and gives you a quick overview of the drawer contents.

Integrated electrics
With various electrical insert panels, a supply duct and different superstructures, workstations can be put to universal use. The mounting frames can be used for a large number of assembly boards and ER units. The ER mounting frame is compatible with the electrical components of the training packages. Alternatively, you can choose an A4 mounting frame according to the electrical engineering standard.

Learnline and Learntop
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Standard for design and function
Learnline – Winner of international design prizes:
– if product design award 2006
– Silver Focus design award 2005

Learnline online configurator
Familiarise yourself with Learnline’s functional design and configure your workstation quickly and easily on the Internet according to your individual requirements. Opt for a predefined standard workstation or put together your own configuration according to your wishes. Slotted assembly boards, drawer units and accessories can be easily selected and added to your configuration. The result is a graphic representation of your selection with a parts list.
Learnline mobile
More versatile than ever!

Flexible and modular
Learnline is of modular design and offers an almost unlimited range of configuration possibilities for your Learnline workstation.

High mobility and optimum use of space
Individual or group training workstations can be created with a minimum of effort wherever they are required. Transport through doors is also possible. This mobile workstation is designed in such a way as to permit several people to work simultaneously. This is further facilitated by the two integrated fixed drawer units that ensure quick and easy access to the required components of the Learning System.
Optimum use of space
The positioning of the storage plate means that the free space beside the fixed drawer units can be used for Systainer or other storage systems. The hydraulic power unit with single pump fits conveniently beside the 1100 mm profile plate.

Hydraulics for advanced trainees
The double pump power unit fits neatly on the frame beside the fixed drawer units with no additional attachment required. The discharge measuring container also fits beside the 1100 mm profile plate.

Pneumatic and electrotechnical training
The storage plate can hold up to two compressors. Further mounting frames for electronic components in A4 format, for example, can be used in addition to the 700 mm profile plate.

Vertical or inclined?
Choose the vertical profile plate if you want to use the worktop for books or laptops for example. Or if the workstation is to be used from both sides, opt for the inclination unit with an additional profile plate to adapt the plate inclination to your requirements.

The preferred types with price advantage. Flexibly expandable.
(Overall dimensions W1556 x D780 x H1773)

1 With 1100 x 700 mm profile plate and ER frame  539028
2 With 700 x 700 mm profile plate and ER frame  539030
Stationary Learnline
Ergonomic and flexible

The stationary solution
With the stationary workstation systems, Learnline combines the requirements for typical desk systems with high functionality. They provide ample desk space and legroom thanks to the roller container. The containers also ensure quick and easy access to any required components.

Vertical or inclined?
The reliable profile plate is fastened to the stable profile of the angle adjustment. The inclination of the slotted profile plate can be infinitely adjusted, all the way down to a horizontal position. The workstation arrangement thus always offers the best ergonomic position for any exercise.

Learnline
Winner of the international design prices
Move up into another dimension: profile columns as set-up space
Use the versatile profile columns as a set-up space, compatible with Quick-Fix®, for equipment sets or for attaching additional components vertically. Further components, for example cylinders with a 400 mm stroke, can be mounted on the angle adjustment profile.

Optimum space utilisation
Thanks to the angle adjustment, the profile plate can be lowered into a horizontal position. Use the available space for A4 or ER mounting frames.

Pneumatic and electrical training
In addition to the 700 mm profile plate, additional mounting frames can be inserted for electronic components.

Ergonomic connections
With the supply duct, you have all important interfaces within reach. Not only the electrical and pneumatic supply, but also PC interfaces, such as USB, Ethernet or serial interfaces, can be integrated in the supply duct.

The preferred choices, advantageously priced. Flexible and expandable.
(Outside dimensions W 1512 x D 780 x H 1718)

1. With 1100 x 700 mm profile plate and ER frame 539023
2. With 700 x 700 mm profile plate and ER frame 539025
3. Order no. 539025 with supply duct On request
Your individual design

**Basic units**
Stable and with a high-quality coating, the basic worktables are guaranteed to fulfill your high requirements.

1. **Basic mobile unit**
   With castors and wheel brakes. The high worktop ensures a comfortable working position when standing. The flexible design of this workstation makes it ideally suited to simultaneous use from both sides.
   W 1556 x D 780 x H 815.

2. **Basic stationary unit**
The height of the worktop ensures a comfortable working position when seated. With height-adjustable design and continuously variable tilting of the profiled plate.
   W 1512 x D 780 x H 760.

**Drawer units**

3/4. **Fixed drawer unit for installation in mobile workstations**
Drawer unit with fully extending, lockable steel drawers with safety stop. Fronts can be labelled. Load 20 kg per drawer. External dimensions body W 476 x D 788 x H 592, usable inner dimensions W 375 x D 700.

3. **Fixed drawer unit pneumatic with 4 drawers**
535833

4. **Fixed drawer unit hydraulic with 3 drawers**
539026

5. **Wheeled drawer unit pneumatic with 4 drawers**
535834

6. **Wheeled drawer unit hydraulic with 3 drawers**
539731

5/6. **Wheeled drawer unit for stationary workstations**
Wheeled drawer unit with fully extending, lockable steel drawers with safety stop. Fronts can be labelled. Load 20 kg per drawer. External dimensions body W 476 x D 788 x H 657, usable inner dimensions W 375 x D 700. All wheels freely movable, 2 wheels with lockable brake.

3. **Fixed drawer unit pneumatic with 4 drawers**
535833

4. **Fixed drawer unit hydraulic with 3 drawers**
539026

5. **Wheeled drawer unit pneumatic with 4 drawers**
535834

6. **Wheeled drawer unit hydraulic with 3 drawers**
539731

**Mounting frame/mounting sets**
Versatile profile columns form the core of the Learnline system. They are used to mount the profile plate frame, to attach components or as an alternative mounting surface for your training components.

7. **For vertical mounting of the profile plate**
The profile plate support is mounted between the profile columns, the profile plate is securely screwed to the mounting frame and the frame structure. This makes the workstation extremely strong and resilient and means that the profile plate can be used from both sides.

8. **For inclined mounting of the profile plate**
The profile plate support can be mounted at any height between the two profile columns, ensuring workstation ergonomics tailored to your requirements. You can also place the components from the training package directly on the mounting frame, thereby freeing up additional workspace.

7. **Mounting frame for vertical mounting of the profile plate**
540698

Mounting set for vertical mounting of the profile plate 540697

8. **Mounting frame for inclined mounting of the profile plate**
539032

Mounting set for inclined mounting of the profile plate 539735
1/2 Aluminium profile plates
The anodised aluminium profile plate forms the basis for all Festo Didactic training packages. All of the components fit securely and safely on the profile plate. There are grooves on each side and, if required, both sides can be fitted with components.

1: 1100 x 700 mm
2: 700 x 700 mm
700 x 550 mm (not shown)

The grooves are compatible with the ITEM profile system. Side caps included. Grid dimensions: 50 mm.

For installation on tables we recommend the appropriate rubber feet (Order no. 158343).

ER and DIN A4 mounting frames
The mounting frames for the workstations are designed to hold a large number of exercise boards and ER units from the Learning System for Automation. This compatibility also extends to electrotechnical equipment in A4 format. It is thus possible to obtain a satisfactory solution to almost any specific task.

3/5 Mounting frame (1500 mm wide)
The mounting frame mounted on the profile column is height-adjustable and holds up to 12 ER/6 A4 units.

3: ER mounting frame (1500 mm wide)
4: ER mounting frame (700 mm wide)
5: A4 mounting frame (1500 mm wide)
6: A4 mounting frame (700 mm wide)

One mounting frame can be attached to each side of the mobile workstation.

4/6 Mounting frame (700 mm wide)
The small mounting frame permits the use of ER/A4 components to the direct left or right of a 700 mm broad profile plate. The ER mounting frame can be used from each side of the mobile workstation.

Accessories

7 Universal bracket
Permits the mounting of up to 2 hydraulic power units with single pump, up to 2 hydraulic measuring containers or holders for storing hoses. W 50 x D 275 x H 130.
Order no. 539736

8 Oil spillage/protective mat
Black, with rubber border. Protects the tabletop of the Learnline system and keeps it clean.
312 x 1512 mm

Order no. 541133

9 Storage plate
Fits into the mobile frame in addition to 2 drawer units and offers installation space for 2 JunAir compressors (order no. 91030) for example.
W 748 x D 403 x H 30.
Order no. 539729

10 Hose holder
For up to 20 hydraulic hoses. Provides neat storage and protects hose couplings from ingress of dirt.
W 366 x D 182 x H 80.
Order no. 539737

11 Cable guide
For a set of laboratory cables. Ensures that cables are kept neatly and in order. W 150 x D 136 x H 63.
Order no. 535812

12 Table extension
For easy attachment to the profile column of a mobile workstation. The height of the table can be adjusted to between 700 and 815 mm. The tabletop dimensions are W 780 x D 600.
Order no. 566435
Learntop
The low-cost desktop mounting system

The low-cost introduction to the world of training packages from Festo Didactic: Enjoy the advantages of the profile plate and the ER mounting frame when carrying out your pneumatic, hydraulic, sensor or PLC training. The devices can be clearly arranged and ensure an ergonomic working position at your existing work tables and benches.

Mounting parts and instructions for mounting the profile plates are included. It is recommended that Learntop be fastened to the table for security reasons.

Learntop-S
The versatile equipment holder for all technologies. Mobile – Can be simply set up on an existing worktable/bench. Versatile – Can be used from both sides. Ergonomic – the angled profile plate enables components to be easily assembled.

Accepts up to 4 profile plates of size 350 x 1100 mm (order no. 162360) or 2 profile plates 700 x 1100 mm (order no. 159411).

Profile plates not included.
Order no. 540668

Learntop-A
Equipment holder for use on one side of the workstation. Ergonomic arrangement of components thanks to the inclined profile plate. Not suitable for hydraulic training.

Can hold up to 2 profile plates of size 350 x 1100 mm (order no. 162360) or one profile plate of size 700 x 1100 mm (order no. 159411).

Profile plates not included.
Order no. 540670

Learntop-L
Equipment holder for use on one side of a workstation; for profile plates of size 700 x 1100 mm (order no. 159411). For horizontal profile plate configurations. Not suitable for hydraulic training.

Profile plates not included.
Order no. 540669

www.festo-didactic.com
1 **Aluminium profile plate**
The anodised aluminium profile plate forms the basis for all Festo Didactic training packages. All of the components fit securely and safely into the grooves on the profile plate. There are grooves on each side and, if required, both sides can be fitted with components. The grooves are compatible with the ITEM profile system. Side caps included. Grid dimensions: 50 mm.

For installation on tables we recommend the appropriate rubber feet (order no. 158343).

Sizes 350 x 1100 mm and 350 x 250 mm supplied without side caps.

- 350 x 1100 mm  162360
- 1100 x 700 mm  159411

2 **Cable guide**
For a set of laboratory cables. Ensures that cables are kept neatly and in order. W 150 x D 136 x H 63.

Order no. 535812

3 **Hose holder**
For up to 20 hydraulic hoses. Provides neat storage and protects hose couplings from ingress of dirt. W 366 x D 182 x H 80.

Order no. 539737

4 **Oil drip tray for Learntop-S workstation**
Dimensions: 1160 mm x 760 mm

Order no. 357283

5 **Mounting kit for hydraulic cylinder with weight**
When this mounting kit is mounted on Learntop-S, the pulling and pushing load of the basic hydraulics package can be realised with it. For this purpose, the cylinder (order no. 152857) and the weight (order no. 152972) are mounted on the mounting kit. The cover (order no. 152973) provides additional security.

Order no. 526847

6 **Slotted mounting plate**
All components with the Quick-Fix® system can be mounted on the slotted mounting plate. The slotted mounting plate can be installed in the conventional A4 mounting frame or on the tabletop. It is not compatible with the A4 table mounting frame.

Overall dimensions: 532 x 297 mm.

Order no. 159331

7 **A4 table mounting frame**
Allows A4 units to be installed on a universal mobile rack.

Order no. 536582

8 **Rubber feet**
For non-slip, protective mounting of profile plates on tabletops of any type. Set (4 pieces).

Order no. 158343

9 **Plug-in adapter set**
The plug-in adapter set can be used to mount the ER units directly on the blue plug-in board or on the aluminium profile plate. One set is required to mount one unit.

Order no. 541122

10 **A4 ER mounting frame**
The ER mounting plate can be installed in any A4 mounting frame. A cut-out permits installation of 2 large or 4 small Festo Didactic ER units.

Order no. 536200

Order online at: www.festo-didactic.com
Laboratory furniture for electrical engineering

Together with our partner Haid KG, we are developing the Swing laboratory furniture series. Haid KG specialises in consulting, developing, planning and producing equipment for electronic and electrical engineering, laboratory furniture systems for research and training, as well as ergonomically designed laboratory and assembly workstations.

Choose from a multitude of matching modular workstations, intelligent and reliable solutions for power supply, device technology, cabinet systems and all the necessary high-quality accessories. It goes without saying that all products have been tested for safety.

Festo Didactic is the sole supplier of Haid KG products on the didactic market. We are happy to assist you with planning, selecting and sizing your workstation or laboratory.

Give us a call!

Table substructures
A wide spectrum of workbench substructures form part of the Swing program. Under-workbench units and roller containers with drawers in various depths, either with or without pull-out shelf, form the basic equipment. It is also available in ESD version, installations for electronic and electrical engineering. We offer special floor units for PCs.
In addition, you can completely equip your laboratory space with multimedia workstations and cabinet systems.

Swing, Basic and cabinet systems

Swing profile columns
The Swing profile solution optimally meets all demands in terms of visual appearance, functionality as well as both flexibility and modularity. The cable duct integrated into the profile facilitates the concealed laying of cables and compressed air supply lines. The cable duct and any unused connection elements are sealed with cover profiles to keep them clean. Levelling screws in all table legs round off the overall concept.

The floating tabletop
The Swing profile and the worktop are connected via delicate yet stable connecting components, making the entire system transparent. Swing add-on workbenches are connected to the basic workbench. The height-adjustable worktops lock into one another seamlessly and are all supported by the legs in the centre.

Basic is the functional, inexpensive laboratory equipment system for electrical engineering, with solid worktop supports made of powder-coated steel tubes. It consists of workbenches in six different widths and three depths.
Swing
Configuration example

Versatility for your individual needs
Swing stands for the unlimited possibilities for individual training laboratory design. Workbenches are created from a few basic components in nearly all thinkable dimensions. Three depths and six widths as well as various working heights are provided for by the standard construction kit. Whether 19" top elements, mounting frames for experimentation plates or perforated metal grid – we will deliver the right solution.

Intelligent solutions
The Swing system already offers fully integrated vertical and horizontal cable conduits as a standard feature. The cable duct in the Swing system profile permits a comfortable vertical cable guide. The basic equipment also includes cable connections which are mounted in a concealed position on the rear cross frame.
Supply duct with electrical system, compressed air and communication

The aluminium supply duct can be made to various lengths, depending on requirements. The various mounting options, such as directly on the workbench or raised up as a cockpit, make for a tidy work surface. All frequently required interfaces can be optimally arranged to be within reach.

Choose from insert panels, such as safety and switching elements for AC current (230 V or 400 V) with key actuators, indicator lamps, motor protection switches, fault current circuit breakers or emergency stop buttons. Depending on the application, you can equip the duct with CEE or earthing contact sockets or safety sockets for three-phase current, direct current or alternating current. Integrate a compressed air outlet via various one-touch fittings.

The most important PC interfaces, such as USB, RS232 or Ethernet can also be integrated in the supply duct. This enables the PC to be connected quickly and ergonomically to various control components.

Worktop components and cockpits with laboratory devices

Alternatively to the supply channel, worktop elements and cockpits in 3 or 6 RU can be integrated. Raised structures are visually elegant and offer optimal utilisation of the worktop. Based on a modular basic grid, each workstation can be individually equipped. Changes, modifications or subsequent extensions can be made at any time.

We offer numerous devices such as infinitely variable voltage devices, lab power supply units, three-phase supplies, fixed voltage devices, adjustable isolating transformers for AC/DC and three-phase current, devices for test engineering and also compressed air supplies.

Variable equipment with 19" segments in cassette design or as insert panels is available, according to your wishes and requirements. It goes without saying that all insert panels for power supply and communication can also be integrated.
Basic and cabinet systems
Functional diversity for your labs

Basic – the functional lab equipment system for electrical engineering
A functional equipment system with solid workstation frames made from powder-coated steel tubes forms the basis of the Basic product family.

It consists of workbenches in six different widths and three depths. The design is so rigid that it can also support heavy superstructures. Both raised supply bridges and equipment placed directly on the workbench are possible with this system. Furthermore, superstructures can be used as partitions or extremely flat cassette tops.

Multimedia workstations
Various designs for attractive multimedia workstations are available: PC desks with sliding slides, cable ducts, cable guides, linking elements, PC racks, substructures or socket strips. Furthermore, diverse workstations and furniture for teaching theory are available: C-shape tables, four-legged tables, mobile table frames, laptop trolleys, swivel chairs, skid base chairs, four-legged chairs, tables, flip charts, projection screens. All with integrated design, reliable high quality and functionally sound, made in Germany!

Our under-bench units and roller containers provide plenty of storage space and make for a tidy workstation. Various depths and drawer configurations leave nothing to be desired.

And EDP isn’t missed out either. Special under-bench units for computers and printers, pull-out keyboard shelves and PC racks are among the wide selection.

Ask us and we will help you find the perfect solution.

Cabinet systems
We offer an extensive range of cabinets, harmonised with the design of our workstation systems. Based on a simple framework, various tall cabinets, medium-high cabinets, storage cabinets, tall corner cabinets and top cabinets are available to choose from. The modular system offers maximum possible combinations and optimal design flexibility with an attractive price/performance ratio.

Shelf inserts with grooved mats for orderly storage of experimentation plates are just as much part of the range as strengthened lower shelves. We supply spacious shelf inserts specially for ESD cabinets. Be it cabinet layout, duct systems or various locking systems – we offer the right solution.

And if you have any other special wishes, we will be happy to manufacture to meet your exact requirements.
LabCreator: The professional design programme for laboratories

Create professional layouts and individually equipped laboratories for basic and further training in just a few easy steps. The effects are amazing!

The laboratories can be equipped with Festo Didactic model products or you can create your own personal designs and 3D models.

With automatic software and library updates, you’ll always be at the cutting edge.

In German, English, Spanish and French. Includes a detailed help function.

Download now for free!

The benefits to you

– Create plans and layouts quickly and simply thanks to intuitive prompting. The integrated help function offers additional guidance.

– LabCreator generates rooms to scale; the walls are full-size and can be fitted with windows and doors to help you avoid planning errors.

– Switch between 2D layout and 3D view. Move the observation point around the room to get a realistic impression of the design progress.

– Extensive model library with partially animated learning systems, equipment, infrastructure and model people. This means that, for example, robot stations can be animated, giving a more lifelike impression of the laboratory.

– Adaptable to new equipment and fully customisable. Drag and drop to import VRML files into the design and create your own 3D models.

– Worldwide platform for exchanging models. The integrated LabCreator server and online library provide you with immediate access to models designed by other LabCreator users.

– Use textures to give your models a realistic look.

– Use the flight recorder to create automatic tours which show your laboratory from a number of different viewpoints. Export the finished „flight“ as a video to complement a presentation of your ideas.

– Export the laboratory design as a VRML, PDF or one of many picture formats.

– Generate a complete proposal for equipping your laboratory at the click of a mouse.

– The finished laboratory is saved in XML-Format. These files are very small and can easily be sent by email to other users.

– Detailed information on all the Festo products you need for your laboratory.