

WIRING BENCHES

Choose and configure your own wiring bench (for 2 students)

3-PHASE VERTICAL CONSOLE



A vertical console with various controls and outlets. Brackets on the right side group features: 'A' for the top section, '2' for the middle section, '1 + 3' for the lower middle section, and '4' for the bottom section.

A. "THREE-PHASE SUPPLY"
A lamp indicating that the power is on.
Output via 4 safety terminals.
Protection by thermal magnetic circuit breaker (30mA residual current circuit breaker available as an option). Key-operated power-on switch

1. "EMERGENCY STOP"
This push button cuts off the power in the case of an emergency. Key-resettable (positive safety).

2. 24VAC / 5A INSULATED SUPPLY.
Output via 2 safety terminals. Primary winding of transformer protected by auto-protection and secondary wiring by circuit breaker and switch.

3. GENERAL "START/STOP".
- A lamp indicating that the power is on.
- Start/stop operated using a double push-button.

4. 230VAC MAINS DISTRIBUTION
Two power sockets 230V with lamp.

ref. LAG-PT

SINGLE-PHASE VERTICAL CONSOLE



A vertical console with various controls and outlets. Brackets on the right side group features: 'B' for the top section, '3' for the emergency stop, '1' for the 24VAC supply, '2' for the start/stop, and '4' for the mains distribution.

B. GENERAL PROTECTION
Protection by magneto-thermal circuit breaker (30mA residual current circuit breaker available as an option - See Page 36)

1. "EMERGENCY STOP".
This push button cuts off the power in the case of an emergency. Key-resettable (positive safety).

2. 24VAC / 5A INSULATED SUPPLY.
Output via 2 safety terminals. Primary winding of transformer protected by auto-protection and secondary wiring by circuit breaker and switch.

3. "START/STOP".
- A lamp indicating that the power is on.
- Start/stop operated using a double push-button.

4. 230VAC MAINS DISTRIBUTION.
Two power sockets 230V with lamp.

ref. LAG-PM

BENCH WITH STRATIFIED TOP



A black metal frame with a grey stratified top and a green horizontal bar across the middle.

Highly-resistant and high-temperature stratified top.
Dim. 1500 x 750mm
Height of table top: 840mm

Reference ● ASO-157

Reference ● ASV-157

ECONOMICAL SINGLE-PHASE CONSOLE



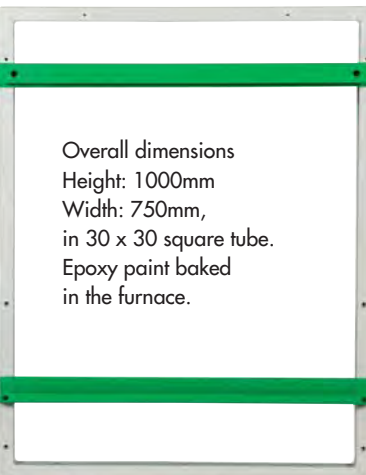
A horizontal console with various controls and outlets.

Horizontal console (wired), ready to be connected to the mains with:

- A 24VAC output insulated from the mains with LED indicator lamp, 100VA, protected by its own circuit breaker and start/stop button
- Two power sockets 230V with LED indicator lamp
- An emergency stop with key + an On/Off button
- Total length 750mm
- Drilling on the back side for fastening on grid holder frame (ref. CSO/CSV)
- Only available in grey colour
- Steel sheet case, PVC front panel

ref. PUG-1

GRID HOLDER FRAME (BARE WITHOUT GRID)



A rectangular frame with a green horizontal bar across the middle.

Overall dimensions
Height: 1000mm
Width: 750mm,
in 30 x 30 square tube.
Epoxy paint baked in the furnace.

This frame can accommodate any type of grid up to a size of 800 x 750mm.

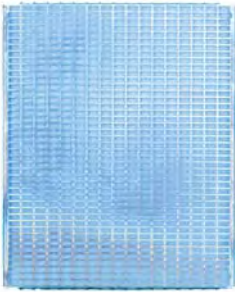
It is fitted with a lower rail, which can be adjusted in steps, and an upper rail, which slides up and down the vertical shafts.

The system has been designed in such a way that you can remove the wired grids without moving the rails.

Reference ● CSO-10

Reference ● CSV-10

REMOVABLE GRIDS



A blue grid with a green border.

REF	PA6040	PA6050	PA7050
Height	660	660	750
Width	434	534	550

EXAMPLES OF WIRING BENCHES					
CHARACTERISTICS	REF.	QTY	QTY	QTY	QTY
Bench	ASO-157 or ASV-157	1	1	1	1
Vertical 3-phase console	LAG-PT	2			
Vertical single-phase console	LAG-PM		2		
Horizontal single-phase console	PUG-1			2	
Universal bare frame	CSO-10 or CSV-10	2	2	2	2
● EXAMPLES OF COMPOSITION		LAO-3T	LAO-2M	LAO-ECO	LAO-N
● EXAMPLES OF COMPOSITION		LAV-3T	LAV-2M	LAV-ECO	LAV-N



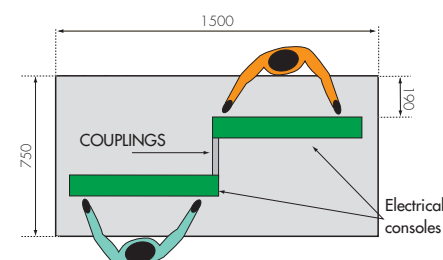
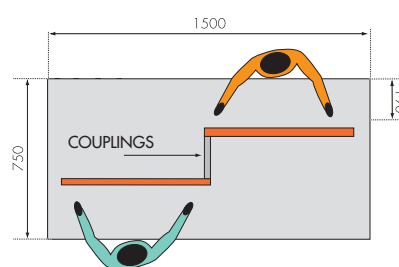
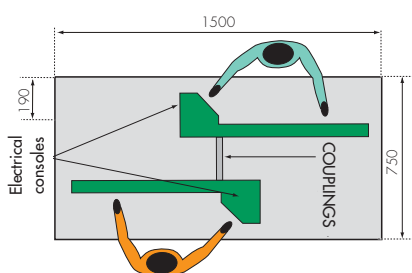
ref. LAV-3T



ref. LAO-N



ref. LAV-ECO



Options for wiring benches
See Pages 36-37



WIRING BENCHES

Workstations for 4 users

WIRING BENCH WITH GRIDS



SUPPLIED WITH
4 fixed grids and
4 removable grids

Reference ● LAO-42T	Reference ● LAV-42T	3-phase
Reference ● LAO-42M	Reference ● LAV-42M	single-phase

Workstation for 4 users. It is delivered with:

- 2 vertical electrical consoles with various outputs (see below)
- 4 grid frames
- 4 fixed grids 800 x 150mm
- 4 removable grids 600 x 500mm (usefull area)
- 1 stratified bench of dimensions 2000 x 750mm
- 2 storage areas for 4 removable grids each

WIRING BENCH WITHOUT GRIDS



SUPPLIED WITHOUT GRID

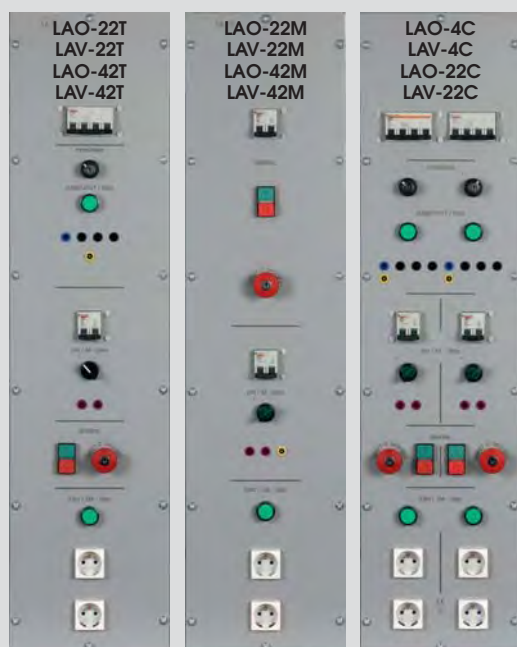
Reference ● LAO-22T	Reference ● LAV-22T	3-phase
Reference ● LAO-22M	Reference ● LAV-22M	single-phase

Workstation for 4 users (see below drawing) :

- 2 vertical electrical consoles with various outputs (see below)
- 4 frames (1000 x 750mm) for 800 x 750mm grids (maximum size). These grid frames have horizontal and adjustable rails to receive all grids up to 800mm height and 750mm width (maximum).
- 1 stratified bench of dimensions 1800 x 750mm
- Delivered without grid.

Reference ● LAO-22C	Reference ● LAV-22C
Same as LA*-22T but with 4 3-phase consoles	

ELECTRICAL FEATURES OF THE VERTICAL CONSOLES (2 sides)



EMERGENCY STOP

- The push-button cuts off the power in the case of an emergency. Key-resettable (positive safety).

24VAC SUPPLY (insulated from mains)

- Used via 2 safety terminals. Primary winding of transformer protected by auto-protection and secondary wiring by circuit breaker.

GENERAL START/STOP

- A lamp indicating that the power is on.
- Start/stop operated using a double push-button.

230V MAINS DISTRIBUTION

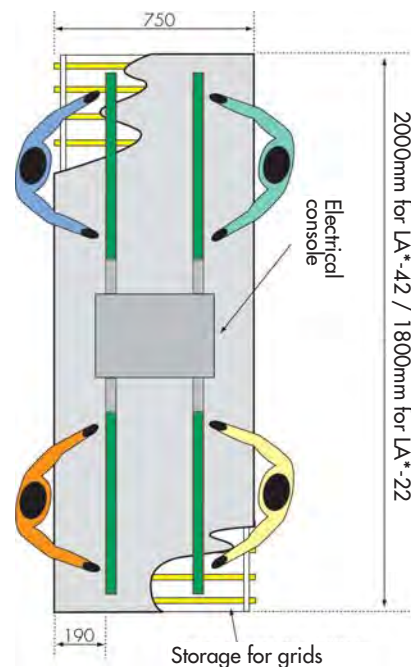
- Two mains sockets 230V with lamp.

GENERAL PROTECTION

- Protection by thermal magnetic circuit breaker (30mA residual circuit breaker available as an option).

3-PHASE SUPPLY (3 X 400V + N+ E) (only for LA*-42T / LA*-22T / LA*-22C / LA*-4C)

- A lamp indicating that the power is on.
- Output via 4 safety terminals.
- Key-operated power-on switch.



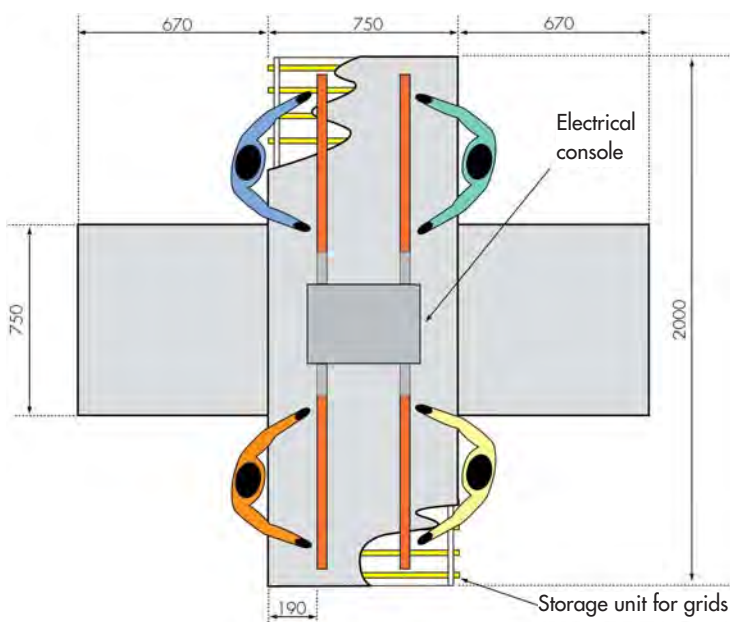
CROSS-SHAPED WIRING BENCH



Reference ● LAO-4C Reference ● LAV-4C 3-phase workstation

Workstation for 4 users. Supplied with:

- 4 vertical electrical consoles with various outputs (see previous page).
- 4 grid frames
- 4 fixed grids 800 x 150mm
- 4 removable grids 600 x 500mm (useful area)
- 1 stratified bench 2000 x 750mm and 2 small ones 750 x 670mm.
- 2 storage areas for 4 removable grids each.



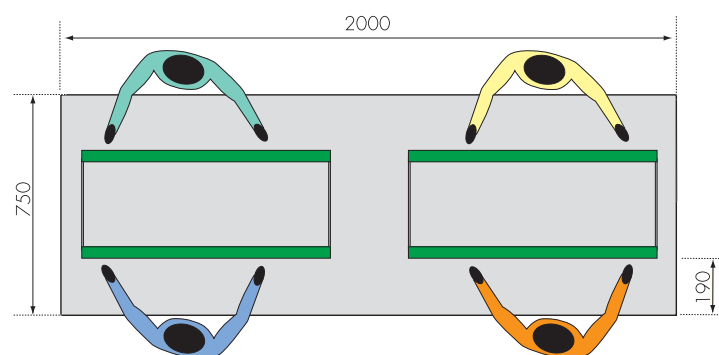
WIRING BENCH WITHOUT ELECTRICAL CONSOLE



Reference ● LAO-44N Reference ● LAV-44N

This bench enables users to wire up movable grids without testing possibility (bench without power supply). Wiring bench for 4 users.

- Dim. 2000 x 750mm.
- High temperature stratified top.
- The 4 frames (ref CSO-10 or CSV-10) can accommodate grids up to 800 x 750mm max.



Options for wiring benches
See Pages 36-37



Options for wiring benches

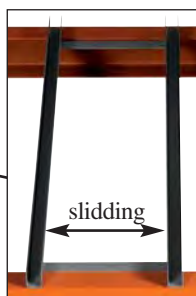
STORAGE UNIT FOR 2 GRIDS

Standard model

Vertical with upper and lower guide.
Made for grids 660 x 534mm.
For storing 2 grids.
Foresee an area of 330mm by GLS-2



ref. GLS-2

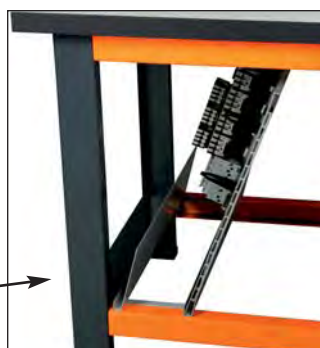
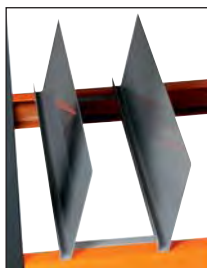


to calculate the number of possible options by bench.

Economical model

Compatible with grids of dimensions 580 x 750mm max. (tilted by 15° relative to the vertical). For storing 2 grids.

Foresee an area of 380mm by RAILECO to calculate the number of possible options by bench.



ref. RAILECO

PNEUMATICS KIT FOR 4mm OUTPUT



A pneumatic distribution can be fitted on the wiring benches. This option is delivered complete with air entry pipe, stop valve, regulator with filter and manometer, feeder tank with 4 quick-fit junctions, means of fixing and screws.

ref. DISLAB

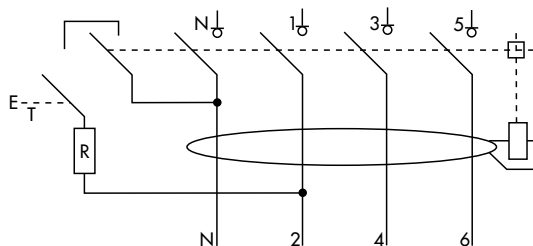
24VDC - 2.2A OUTPUT



Electronic auto-protection.
Safety terminals 4mm
On/off switch
LED indicator light.

ref. CC24L

30mA RESIDUAL CURRENT CIRCUIT BREAKER



30mA residual current circuit-breaker. Single-phase bench.

ref. DIF30-2L A Type

ref. DIF30-2LAC AC Type

30mA residual current circuit-breaker. 3-phase bench.

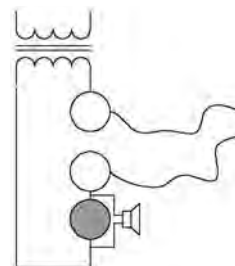
ref. DIF30-4L A Type

ref. DIF30-4LAC AC Type

CIRCUIT CONTINUITY TEST

An optional circuit "Continuity test" is available. This option allows to do some acoustic and visual tests under 24VAC.

ref. CAV



360° LED LAMP

REPLACE YOUR OLD LAMPS BY SOME NEW HARD-WEARING LED LAMPS

- LED lamp with ten electroluminescent LED diodes without maintenance.
- Bulb with a bayonet fitting (B15D type), 2 contact terminals
- Available in 2 voltages:
230VAC and 24VAC

ref. T15-230 230V

ref. T15-24 24V



VERTICAL CABLE RACEWAY

For the wiring of the power cable from the aerial wiring system to the top of upright supply console

ref. LABO-CANNE



360° LIGHT SIGNAL TOWERS

ref. VOY61



ref. VOY121



ref. VOY181

WARNING: FORESEETOWER BY STUDENT. THEY CAN BE SEEN THROUGH 360°.
CAN BE PLACED EITHER ON THE CONSOLE OR ON A VERTICAL CABLE RACEWAY.

COLOURS AVAILABLE UPON REQUEST

HARD WEARING LED LAMP

white - orange - red - green - blue

**HANGING DRAWERS (300 SERIES) WITH LOCK AND KEY**

For top in depth 750mm or 1000mm - Height: 400mm - Width: 450mm

REF	Drawer H=100mm	Drawer H=200mm	Drawer H=300mm
TIG-30	3	/	/
TIG-32	1	1	/
TIG-33	/	/	1



Ref. TIG-30



Ref. TIG-32

HANGING DRAWERS (400 SERIES) WITH LOCK AND KEY

For top in depth 750mm or 1000mm - Height: 490mm - Width: 450mm

REF	Drawer H=100mm	Drawer H=200mm	Drawer H=300mm
TIG-40	4	/	/
TIG-41	2	1	/
TIG-42	/	2	/
TIG-43	1	/	1



Ref. TIG-41



Ref. TIG-42

HANGING DRAWER WITH LOCK AND KEY

For top in depth 750mm or 1000mm
Height: 100mm - Width: 400mm
With lock & key

ref. TIG-10

**FAST CONNECTIONS HARTING®**

These items are sold separately.
They allow the quick connection/disconnection of 24 contact points.
The female base is fixed, the male connector is movable.



Female base easy to fix on a wiring grid, 24 contact points female + ground.

ref. HA-24S

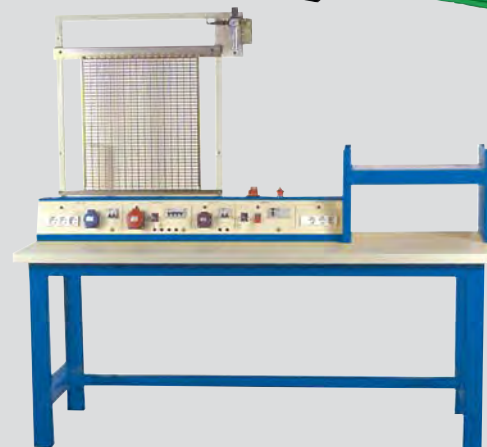
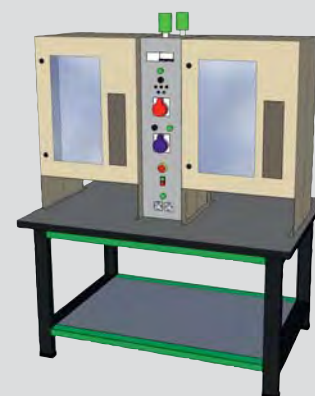


Simple connector, without protection, 24 points male + ground.

ref. HA-M24

CUSTOM-MADE PRODUCTS

Examples of manufacturing carried out according to customers' needs



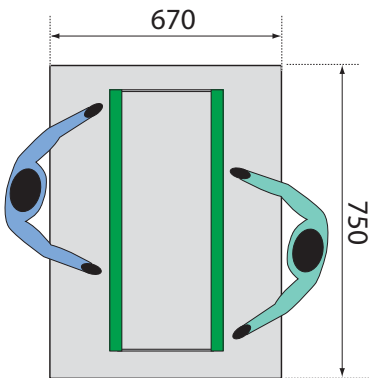
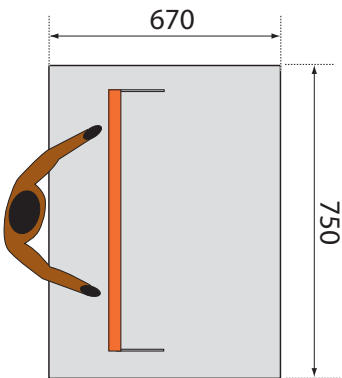
WIRING BENCHES

Mobile wiring benches



MBO-1 & MBV-1 enables you to wire up detachable grids without a testing option. It can be moved around thanks to its 4 wheels, 2 of them are fitted with brakes. The frame can accommodate grids or any other items with dimensions of up to 800 x 750mm maximum.
750 x 670mm high-temperature laminated top
Height of wiring unit = 1970mm.

MBO-2 & MBV-2 as the same features as **MBO-1 & MBV-1**, except that it has two frames and therefore enables two users to work at the same time.



Reference ● MBO-1
Reference ● MBV-1

SUPPLIED WITHOUT GRID

Reference ● MBO-2
Reference ● MBV-2

Storage unit for grids

Simple and economical solution for storage of 16 or 24 grids.
16 compartments model :
Dimensions 1890 x 665mm - Height 850mm without grid.
24 compartments model :
Dimensions 1890 x 665mm - Height 1630mm without grid.

Compartment	Reference ●	Reference ●
16	V-MILABO16	O-MILABO16
24	V-MILABO24	O-MILABO24



Pneumatic and electrical benches

HARD-WEARING LAMP (without maintenance)



Reference ● LAO-PNM Reference ● LAV-PNM 2 single-phase consoles

Reference ● LAO-PNT Reference ● LAV-PNT 2 three-phase consoles

These workstations have a dual function, pneumatic on the right, electrical on the left. The quick grids frame are adjustable to different grids up to maximum dimensions of 800 x 750mm. Workstation for 2 users. Delivered with:

- One stratified table-top 2000 x 750mm
- Two vertical power consoles
- Two complete pneumatic distributions with air input connector, stopping valve, regulator with filter and manometer, air feeder equipped with 4 quick auto obturating 4mm connection, mechanics and fastenings, in compliance with working rules and regulation.



EMERGENCY STOP

- This push button cuts off the power in the case of an emergency. Key-resettable (positive safety).

24VAC / 5A INSULATED SUPPLY

- Output via 2 safety terminals. Primary winding of transformer protected by auto-protection and secondary wiring by circuit breaker and switch.

START/STOP

- A lamp indicating that the power is on.
- Start/stop operated using a double push-button.

230VAC MAINS DISTRIBUTION

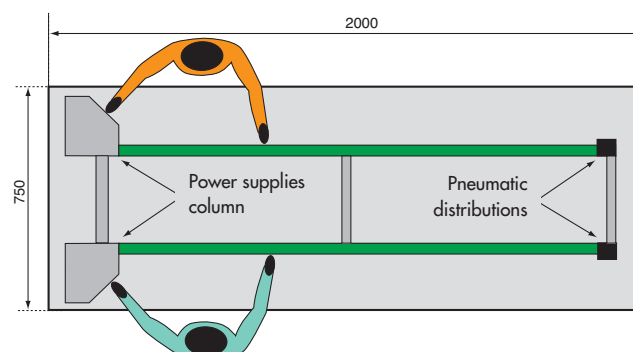
- Two power sockets 230V with lamp.

GENERAL PROTECTION

- Protection by magneto-thermal circuit breaker (30mA residual current circuit breaker available as an option - See Page 36)

THREE-PHASE SUPPLY (only LAO-PNT & LAV-PNT)

- A lamp indicating that the power is on.
- Output via 4 safety terminals.
- Key-operated power-on switch



Storage unit for 6 grids

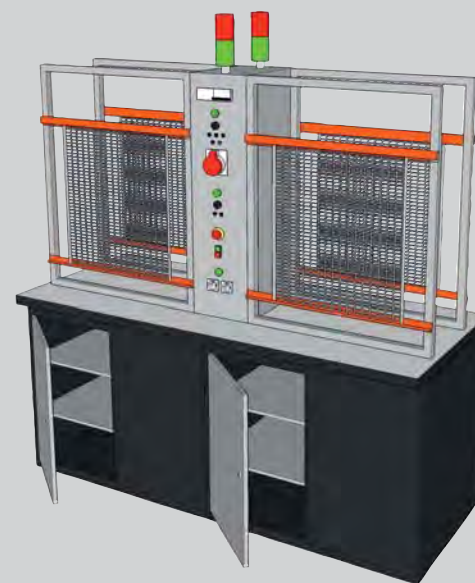


ref. G-MILABO6

- Storage cabinet for 6 grids.
- Sliding lockable doors .
- Rubber fluted carpet glued on top.
- Maximum dimensions of the grids:
Width: 550mm / Height: 900mm / 200mm of installed equipments.
- Dimensions: 1000 x 1200 x 600mm.

CUSTOM-MADE PRODUCTS

Examples of manufacturing carried out according to customers' needs



Grids supports

WALL MODEL



Reference ● MURECO-O

Reference ● MURECO-V

- Cabling grid support, with wall fixing. (Supplied without grid)
- Adjustable horizontal rails for using several grid sizes.
- This system also takes wood panels 12mm thick or BA13 plaster panel.
- Overall dimensions of the main frame: 1000 x 750mm
- Maximum dimensions of the work area: 800 x 750mm (panels or grid)
- The bottom bracket extends 150mm to hold hand tools. (Angled corners)
- Screws supplied (except for wall fixing).



Angled corners for safety

MOBILE MODEL



Reference ● FREE-SUP-O

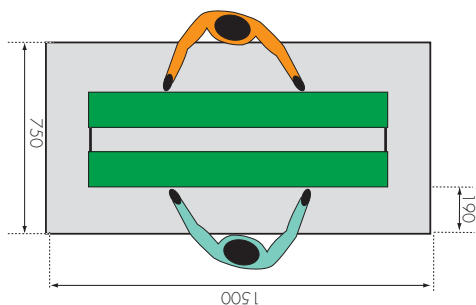
Reference ● FREE-SUP-V

- Mobile easy-to-store cabling support. (Supplied without grid)
- On a bench, the work area (grids or panels) can be angled by the cabler simply by using the screw handles on the sides.
- The ball joints in contact with the table adjust automatically according to the work angle.
- The holding bars make the assembly very rigid for comfortable working.
- Adjustable horizontal rails for using grids with varied dimensions.
- This system also takes wood panels 12mm thick and BA13 plaster panel.
- Overall dimensions of the main frame: 1000 x 750mm
- Maximum dimensions of the work area: 800 x 750mm (panels or grids)
- Footprint on table in maximum open position: 750 x 530 mm



The console ref. PUG-1 can be fixed on the top of the references MURECO.
Features: see next page

Multifunction home learning workstation



Workbench for learning how to mount and connect home components.
Two learners are separated by two independent frames 1200 x 800mm.
These frames can take wood plates, industrial frames or the BA13 plaster panel.
Speedy installation and replacement of work supports (plate, frame, BA13 plaster panel).
• High-temperature laminated top 40mm thick, dimensions 1500 x 750mm.
• Maximum dimensions of wood plate or BA13 or wiring frame: 1150 x 785 x 15mm thick.

Reference ● P1O-2P-N

Reference ● P1V-2P-N

There are other solutions as opposite with a workbench 2400 x 750mm with 3 feet, for accommodating 4 learners at the same time.

Please contact us to give us your ideas.

We can prepare a free estimate for you with 3D illustrations.



ECONOMICAL SINGLE-PHASE CONSOLE



Horizontal console (wired), ready to be connected to the mains with:

- A 24VAC output insulated from the mains with LED indicator lamp, 100VA, protected by its own circuit breaker and start/stop button
- Two power sockets 230V with LED indicator lamp
- An emergency stop with key + an On/Off button
- Total length 750mm
- Drilling on the back side for fastening on grid holder frame (ref. CSO/CSV)
- Only available in grey colour
- Steel sheet case, PVC front panel

ref. PUG-1

REMOVABLE GRIDS



REF	PA6040	PA6050	PA7050
Height	660	660	750
Width	434	534	550

Drawer cabinet



MAIN FEATURES

- Sturdy drawer cabinets in steel for an intensive use.
- Furnace-baked epoxy paint : grey housing, pearl grey drawers
- Width : 720mm / Depth : 645mm / Height : 1000mm
- Maximum load by drawer : 100 kg
- Total weight : between 150 and 160 kg according the model
- Handles with label holder

DESCRIPTION OF THE DRAWERS

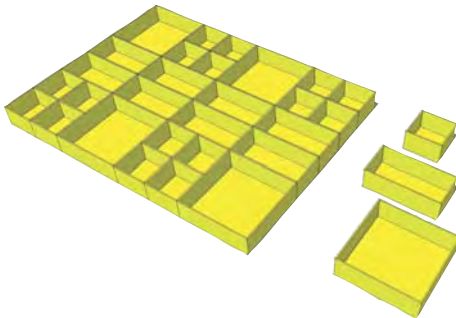
- Drawers with ball bearing slides. A safety device allows the opening of only one drawer at one time. This device prevents the risk of knocking over on the user. The lock jams all the drawers at one time. All the drawers are delivered already equipped.
- Inside dimensions of a drawer : 630 x 450 mm

STANDARD EQUIPMENT OF DRAWERS

Height	Drawer fittings
75 mm	28 plastic boxes among 3 sizes
	16 boxes 75 x 75mm
	8 boxes 75 x 150mm
	4 boxes 150 x 150mm
100 mm	4 metallic storages including - 28 removable dividers
150 mm	4 metallic storages including - 20 removable dividers
200 mm	4 metallic storages including - 12 removable dividers



metallic storage + dividers layout

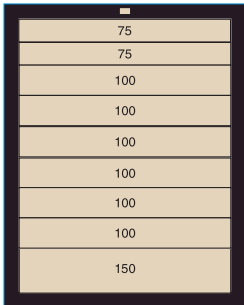
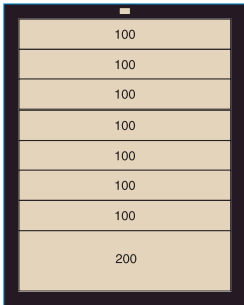
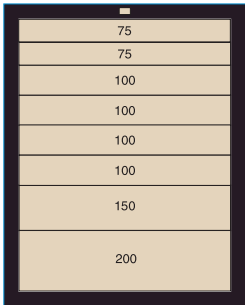


plastic boxes layout
75 x 75mm

plastic boxes layout
150 x 75mm

plastic boxes layout
150 x 150mm

Ref.	AAG-70	AAG-80	AAG-90
Weight	133kg	136kg	157kg



Drawer 75mm	2	/	2
Drawer 100mm	4	7	6
Drawer 150mm	1	/	1
Drawer 200mm	1	1	/

Trolleys & Servants

TROLLEYS



ref. DES-16

- Trolley
- Tubular steel frame
- Removable upper shelf
- Melaminated shelves (beech surface)
- 2 swivelling wheels (diameter 125mm) with a brake
- 2 fixed wheels (diameter 125mm)
- Delivered unmounted. Easy to assemble.
- Length : 1030mm
- Width : 500mm
- Height : 1010mm
- Useful dimensions : 850x500mm
- Height of the shelf: 185/810mm
- Max load of the upper shelf : 80kg
- Total max load (on both shelves) : 200kg
- Net weight : 31kg



ref. DES-18

- Trolley
- Tubular steel frame
- The 2 upper shelves are removable
- Melaminated shelves (beech surface)
- 2 swivelling wheels (ø 125mm) with brake
- 2 fixed wheels (diameter 125mm)
- Delivered unmounted. Easy to assemble.
- Length : 1030mm
- Width : 500mm
- Height : 1010mm
- Useful dimensions: 850x500mm
- Height of the shelf: 185/500/810mm
- Max load of the upper shelf: 80kg
- Max load of the middle shelf: 80kg
- Total max load (the whole trolley): 200kg
- Net weight: 37kg



ref. DDG-90

- Trolley
- Electrogalvanised steel frame
- 3 fixed shelves with 30mm edge
- Protective grooved rubber mat on the upper shelf
- Handle
- 4 80mm diameter wheels. 2 of them have a brake
- Space between the shelves : 330mm
- Height : 850mm (wheels included)
- Width : 615mm
- Length : 900mm (handle included)
- Max load by shelf : 30 kg
- Net weight : 33 kg

WORKSHOP TROLLEYS



ref. DES-24

- 2 swivelling wheels Ø200mm with brakes, 2 fixed wheels.
- Carrying handle
- 1 cabinet lockable by key (1 fixed shelf and 2 moveable).
- Length 1200mm.
- Width 700mm.
- Height 915mm.
- Useful dimensions 1050 x 700mm.
- Max load of the upper shelf: 200kg.
- Max load of the shelves inside the cabinet: 30kg.
- Total max load: 500kg.
- Net weight: 79kg.



ref. DES-58

- Worktop reinforced melamine 19mm.
- 4 swivelling wheels Ø125mm, 2 with brakes.
- 2 cabinets lockable by key (1 fixed shelf and 2 moveable in each cabinet).
- length 1120mm.
- Width 650mm.
- Height 910mm.
- Useful dimensions 1120 x 650mm.
- Max load of the shelves inside the cabinet: 30kg.
- Total max load 150kg.
- Weight 76kg.

STORAGE FURNITURE

Chairs & Stools

5-pronged swivel stools and chairs for workbenches.
Swivels, height can be adjusted by using a pneumatic gas lift.
Height adjustable from 470 to 670mm maxi.



ref. TAB5 with footrest



ref. TAB6 without footrest



ref. C5BAR with footrest



ref. C5BSR without footrest



ref. C5-PRO
with footrest

5-pronged swivel chair for workbenches.
Padded seat and back, with footrest.
Covered in black vinyl.
Height adjustable from 470 to 670mm

5-pronged comfortable chair in polyurethane
for workbench. Seat and back in compact foam.
With footrest. Swivel model.
Height adjustable from 470mm to 670mm



ref. C5-POL
with footrest

Ergonomic polyurethane sit-stand
chair. Height can be adjusted by
using the pneumatic gas lift.
Height adjustable from
620 to 870mm



ref. ASS-D
without footrest

Trolley with trays



2-sides trolley

ref. CH-C84R

- 4 swivel wheels for an easy moving. 2 wheels have a brake
- Steel frame with beige epoxy paint
- height: 1120mm / width: 500mm / length: 1040mm

84 blue plastic trays

- 42 trays of dims 105 x 115 x 70mm (21 front / 21 back)
- 42 trays of dims 175 x 105 x 95mm (21 front / 21 back)

Workshop cupboard



ref. HB58

Steel cupboard with swing doors,
very sturdy, **delivered dismantled**.

- Equipped with 4 height adjustable shelves (5 storage levels in total)
- Maximum load by level : 100 kg
- Rotating handle with lock on the right door
- Single colour : pearl grey (furnace-baked epoxy paint)
- Width : 900mm
- Depth : 450mm
- Height : 1800mm



Cupboard delivered
dismantled