

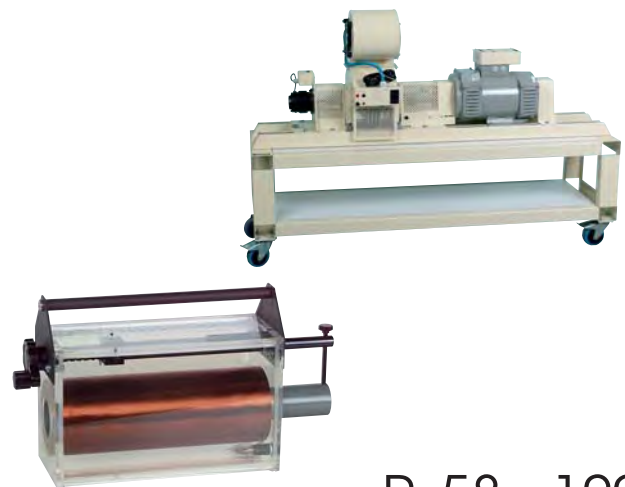
# SUMMARY

## Technical Furniture



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## Motos & Electrotechnic



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## Renewable Energy



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## Training systems & Models



P. 140 - 202

## Measuring apparatus



P. 203 - 249

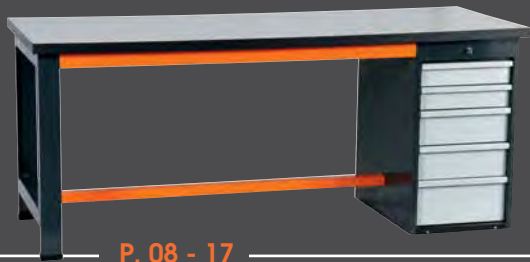
## Accessories



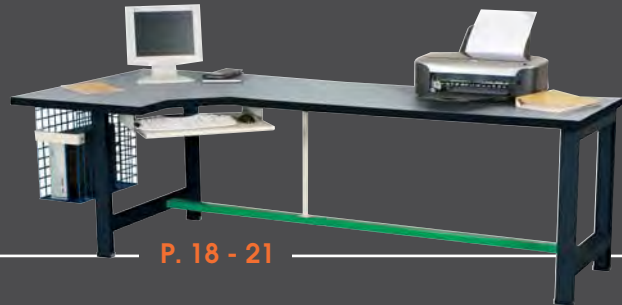
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# TECHNICAL FURNITURE

— Standard benches — Computer workbenches —



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— Multi-purpose & Electrotechnical benches —



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P. 26 - 34

— Wiring benches — Training housing units & Kits —

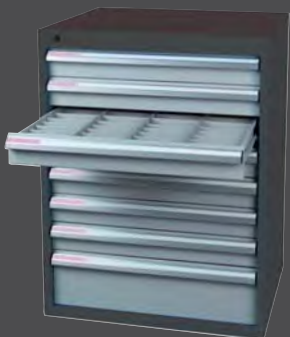


P. 35 - 43



P. 44 - 53

— Storage units —



P. 54 - 57

# EQUILIBRIUM RANGE

*New generation of technical furniture*

## Quality of steel & finishes



All parts of the metal frame are manufactured from electrogalvanised steel sheet, which is widely used in the car manufacturing industry and makes the sheet extremely resistant to corrosion. The iron/zinc combination forms a natural cell with moisture in the air that prevents the iron from corroding, even if shearing or scratching occurs. This protection is strengthened further by two layers of furnace-baked epoxy paint, which means that it is suitable for use even in tropical or coastal areas.

**RAL 2008**

### Colour Chart

**RAL 6018**

Products shown in this

**RAL 1021**

catalogue, especially

**RAL 3002**

workbenches, can be

**RAL 5017**

supplied in the colours

**RAL 7016**

given here. All other RAL

**RAL 7035**

available upon request.

## Quality of stratified top



SHOCK  
RESISTANT



ABRASION  
RESISTANT



SCRATCH  
RESISTANT



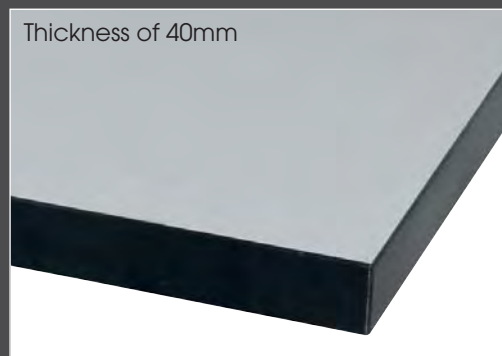
CHEMICAL  
RESISTANT



EASY  
TO CLEAN

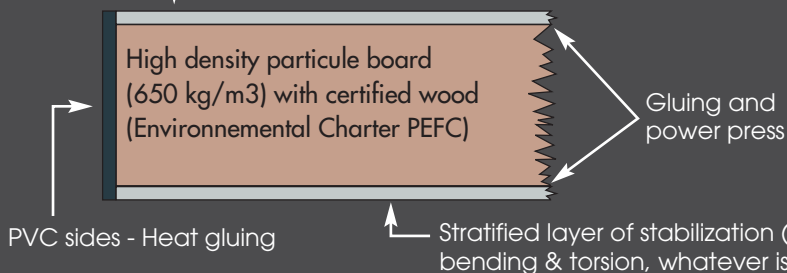


Uniformly  
distributed



Thickness of 40mm

High quality stratified layer. High heat resistance (up to 300°C without modification in shape, colour). High resistance to scratches



## Power sockets available for technical furniture



**F TYPE SCHUKO**  
GERMANY



**E TYPE**  
FRANCE



**J TYPE**  
SWITZERLAND



**G TYPE**  
UNITED KINGDOM



**B TYPE**  
USA

# Standard benches

## Basic benches

### STRATIFIED TOP



High temperature stratified top (40 mm)

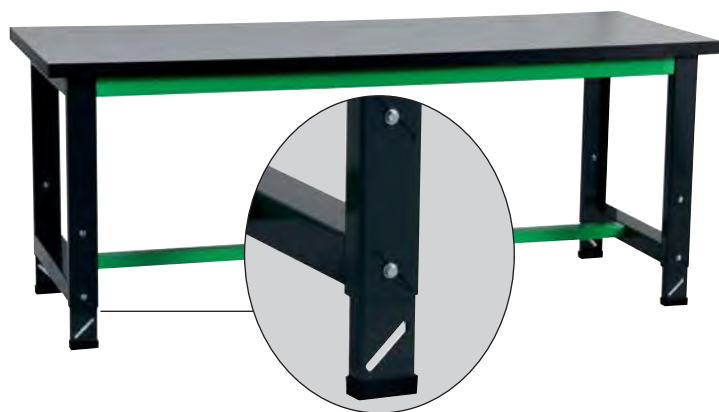
**Height of the bench : 840mm (top included)**

A PVC protective pad is placed underneath each foot.

Maximum load 1000kg uniformly distributed.

Dims (mm)	Ref.	Ref.
1200 x 750	ASV-127	ASO-127
1200 x 1000	ASV-1210	ASO-1210
1500 x 750	ASV-157	ASO-157
1500 x 1000	ASV-1510	ASO-1510
1800 x 750	ASV-187	ASO-187
1800 x 1000	ASV-1810	ASO-1810
2000 x 750	ASV-207	ASO-207
2000 x 1000	ASV-2010	ASO-2010
2500 x 750	ASV-257	ASO-257

### ADJUSTABLE HEIGHT BENCHES



High temperature stratified top (40 mm)

**Adjustable height: 700 ~ 960mm (top included)**

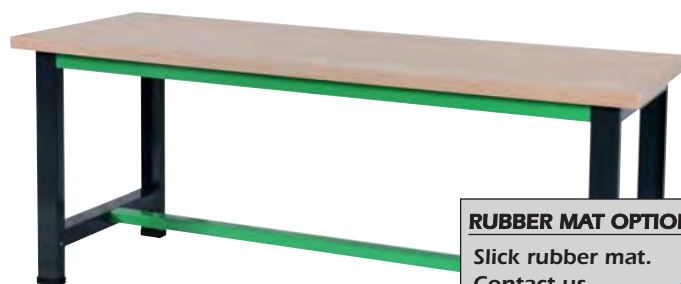
System with sliding foot components, adjustable continuously, tightened by screws and bolts. Each foot can be adjusted separately (if the floor is not completely flat). The strength of these adjustable benches is equal to standard benches.

A PVC protective pad is placed underneath each foot.

Maximum load 1000kg uniformly distributed.

Dims (mm)	Ref.	Ref.
1200 x 750	LSV-127	LSO-127
1200 x 1000	LSV-1210	LSO-1210
1500 x 750	LSV-157	LSO-157
1500 x 1000	LSV-1510	LSO-1510
1800 x 750	LSV-187	LSO-187
1800 x 1000	LSV-1810	LSO-1810
2000 x 750	LSV-207	LSO-207
2000 x 1000	LSV-2010	LSO-2010

### WOODEN TOP



#### RUBBER MAT OPTION

Slick rubber mat.  
Contact us

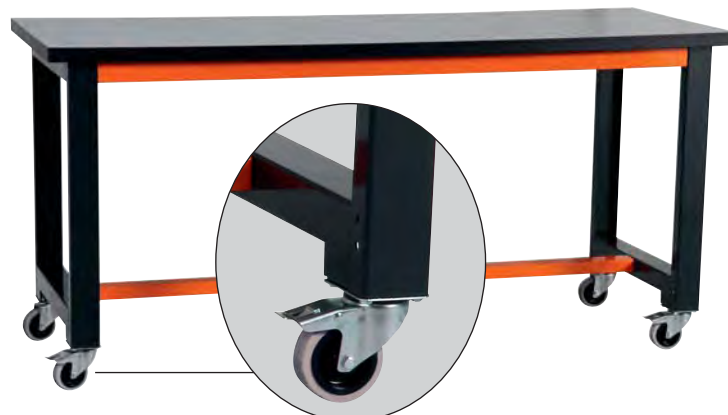
Wooden top, beech multilayer (40 mm)

**Height of the bench : 840mm (top included)**

A PVC protective pad is placed underneath each foot. Maximum load 1000kg uniformly distributed.

Dims (mm)	Ref.	Ref.
1200 x 750	ABV-127	ABO-127
1200 x 1000	ABV-1210	ABO-1210
1500 x 750	ABV-157	ABO-157
1500 x 1000	ABV-1510	ABO-1510
1800 x 750	ABV-187	ABO-187
1800 x 1000	ABV-1810	ABO-1810
2000 x 750	ABV-207	ABO-207
2000 x 1000	ABV-2010	ABO-2010

### BENCHES WITH WHEELS



High temperature stratified top (40 mm)

**Height of the bench: 965mm (top and wheels included)**

4 wheels 100 mm diameter with rubber rolling band.

2 wheels have a brake.

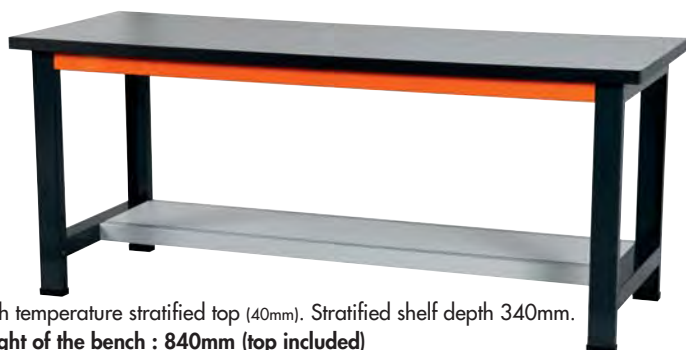
Maximum load 500kg uniformly distributed.

Other heights on request.

Dims (mm)	Ref.	Ref.
1200 x 750	RSV-127	RSO-127
1200 x 1000	RSV-1210	RSO-1210
1500 x 750	RSV-157	RSO-157
1500 x 1000	RSV-1510	RSO-1510
1800 x 750	RSV-187	RSO-187
1800 x 1000	RSV-1810	RSO-1810
2000 x 750	RSV-207	RSO-207
2000 x 1000	RSV-2010	RSO-2010



## BENCH WITH STRATIFIED SHELF



High temperature stratified top (40mm). Stratified shelf depth 340mm.

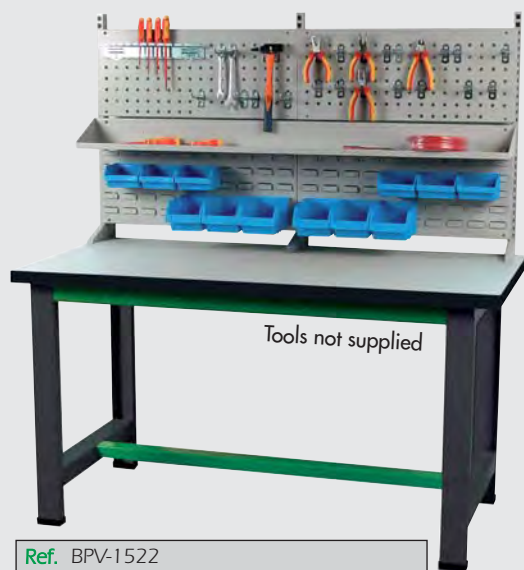
**Height of the bench : 840mm (top included)**

A PVC protective pad is placed underneath each foot.

Max load 1000kg uniformly distributed

Dims (mm)	Ref.	Ref.
1500 x 750	DSV-157	DSO-157
1500 x 1000	DSV-1510	DSO-1510
1800 x 750	DSV-187	DSO-187
1800 x 1000	DSV-1810	DSO-1810
2000 x 750	DSV-207	DSO-207
2000 x 1000	DSV-2010	DSO-2010

## TOOL HOLDER BENCH



Bench with tool holder vertical panels and tray rests

High temperature stratified top (40mm)  
A PVC protective pad is placed underneath each foot

Tools not supplied

**TOOL HOLDER  
PANELS ARE SOLD  
SEPARATELY  
SEE PAGE 56**

Ref. BPV-1522

Ref. BPO-1522

Height of the bench : 840mm (top included). Top : 1500 x 750mm

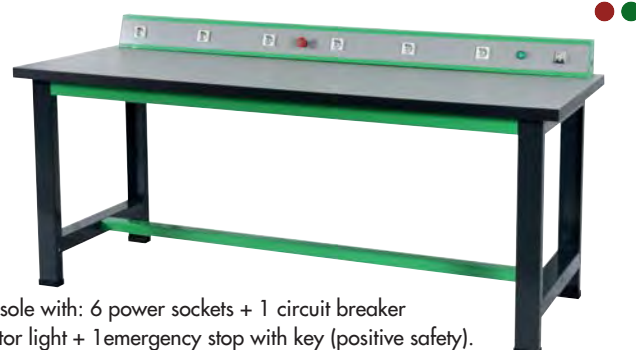
Height of the vertical panels : 830mm

Total height of the bench : 1670mm

Description of the delivered components	Quantity
1500x750mm stratified bench	1
perforated panel	2
tool holder hook	24
screwdriver holder	1
trays panels	2
125 x 105mm trays	6
125 x 175mm trays	6
adjustable shelf (in height)	1

Other configuration available upon request. Contact us.

## BENCH WITH POWER CONSOLE & EMERGENCY STOP



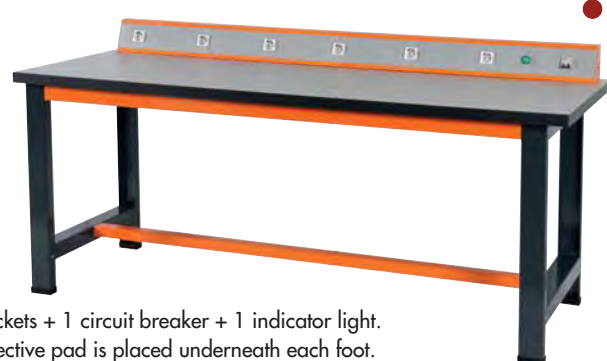
Power console with: 6 power sockets + 1 circuit breaker + 1 indicator light + 1 emergency stop with key (positive safety).

A PVC protective pad is placed underneath each foot.

Maximum load 1000kg uniformly distributed.

Dims (cm)	Thermal magnetic circuit breaker	30mA residual current circuit breaker
	Ref.	Ref.
180x75	ESV-187	ESO-187
180x100	ESV-1810	ESO-1810
200x75	ESV-207	ESO-207
200x100	ESV-2010	ESO-2010

## BENCH WITH POWER CONSOLE



6 power sockets + 1 circuit breaker + 1 indicator light.

A PVC protective pad is placed underneath each foot.

Maximum load 1000kg uniformly distributed.

Dims (cm)	Thermal magnetic circuit breaker	30mA residual current circuit breaker
	Ref.	Ref.
180x75	FSV-187	FSO-187
180x100	FSV-1810	FSO-1810
200x75	FSV-207	FSO-207
200x100	FSV-2010	FSO-2010

### INFORMATION

All power sockets are wired (The power cable of the console is not supplied)  
Recommendation: use a power cable in 3x2.5mm<sup>2</sup> (phase + neutral + earth)

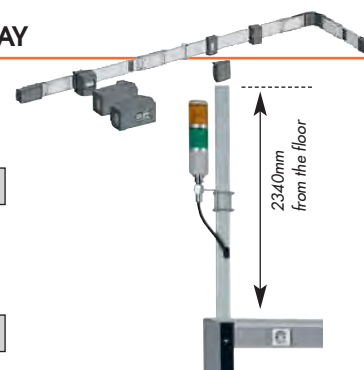
## VERTICAL CABLE RECEWAY

For the wiring of the power cable from the aerial wiring system to the base of the power supply

ref. DEG-1

Model for power cable and network cable

ref. DEG-2



# Standard benches

## Benches with a shelf



### BENCH WITH A SHELF

- High temperature stratified top
- Shelf with: 4x power sockets + 1x circuit breaker + 1x indicator light
- Shelf adjustable in height: maximum 400mm (depth: 400mm)
- Height of the bench: 1240mm (shelf included). Maximum load 1000kg uniformly distributed

Dims. (mm)	Thermal magnetic circuit breaker		30mA residual current circuit breaker	
	Ref.	Ref.	Ref.	Ref.
1800 x 750	GSV-187	GSO-187	GSV-187D	GSO-187D
1800 x 1000	GSV-1810	GSO-1810	GSV-1810D	GSO-1810D
2000 x 750	GSV-207	GSO-207	GSV-207D	GSO-207D
2000 x 1000	GSV-2010	GSO-2010	GSV-2010D	GSO-2010D



### BENCH WITH A SHELF & A POWER CONSOLE

- Stratified top. Power console with: 6x power sockets + 1x circuit breaker + 1x indicator light
  - Shelf with: 4x power sockets + 1x circuit breaker + 1x indicator light
  - Shelf adjustable in height: maximum 400mm (depth: 400mm)
  - Height of the bench: 1240 mm (shelf included). Maximum load 1000kg uniformly distributed
- (\*) for these references, only the circuit breaker of the console is a 30mA residual current type. The circuit breaker of the shelf remains a thermal magnetic one.

Dims. (mm)	Thermal magnetic circuit breaker		30mA residual current circuit breaker	
	Ref.	Ref.	Ref.	Ref.
1800 x 750	JSV-187	JSO-187	JSV-187D	JSO-187D
1800 x 1000	JSV-1810	JSO-1810	JSV-1810D	JSO-1810D
2000 x 750	JSV-207	JSO-207	JSV-207D	JSO-207D
2000 x 1000	JSV-2010	JSO-2010	JSV-2010D	JSO-2010D



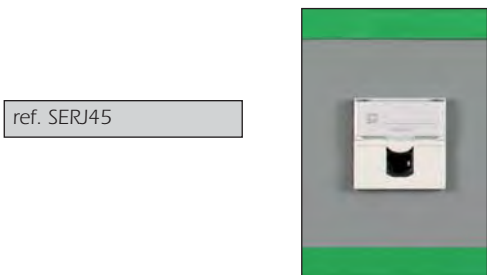
### BENCH WITH A HIGH SHELF & A POWER CONSOLE

- Stratified top. Power console with: 6x power sockets + 1x circuit breaker + 1x indicator light
  - Shelf with: 4x power sockets + 1x circuit breaker + 1x indicator light
  - Shelf adjustable in height: maximum 650mm (depth: 400mm)
  - Height of the bench: 1490 mm (shelf included). Maximum load 1000kg uniformly distributed
- (\*) for these references, only the circuit breaker of the console is a 30mA residual current type. The circuit breaker of the shelf remains a thermal magnetic one.

Dims. (mm)	Thermal magnetic circuit breaker		30mA residual current circuit breaker	
	Ref.	Ref.	Ref.	Ref.
1800 x 750	KSV-187	KSO-187	KSV-187D	KSO-187D
1800 x 1000	KSV-1810	KSO-1810	KSV-1810D	KSO-1810D
2000 x 750	KSV-207	KSO-207	KSV-207D	KSO-207D
2000 x 1000	KSV-2010	KSO-2010	KSV-2010D	KSO-2010D

**INFORMATION:** All power sockets are wired (The power cable of the console is not supplied) Recommendation: use a power cable in 3x2.5mm<sup>2</sup> (phase + neutral + earth)

### RJ45 PLUG (NOT WIRED)



### RJ45 WIRED PLUG OPTION



Combination of 2 RJ45 connectors connected together in the console. The side connector A is used to connect the network input, the front connector B is for the user's connection.

# Benches with leg-mounted cabinet and drawers

## CABINET WITH 5 DRAWERS



- High temperature stratified top (40 mm). Maximum load 1000kg
- Height of the bench: 840mm (top included)
- Cabinet with 5 drawers (4 drawers H100mm + 1 drawer H300mm)

Dims (mm)	Ref.	Ref.
1800 x 750	50TV-187S	50TO-187S
1800 x 1000	50TV-1810S	50TO-1810S
2000 x 750	50TV-207S	50TO-207S
2000 x 1000	50TV-2010S	50TO-2010S

## CABINET WITH LOCKING SWING DOOR



- High temperature stratified top (40 mm). Maximum load 1000kg
- Height of the bench: 840mm (top included)
- Cabinet with locking swing door and 2 shelves

Dims (mm)	Ref.	Ref.
1800 x 750	80TV-187S	80TO-187S
1800 x 1000	80TV-1810S	80TO-1810S
2000 x 750	80TV-207S	80TO-207S
2000 x 1000	80TV-2010S	80TO-2010S

## BENCHES WITH 3 HANGING DRAWERS



- High temperature stratified top (40 mm). Maximum load 1000kg
- Height of the bench: 840mm (top included)
- Cabinet with 2 drawers H100mm / 1 drawer H200mm

Hanging drawers with lock (can be placed anywhere under the bench top)

**For adjustable height bench with hanging drawers, contact us**

Dims (mm)	Ref.	Ref.
1800 x 750	YSV-187	YSO-187
1800 x 1000	YSV-1810	YSO-1810
2000 x 750	YSV-207	YSO-207
2000 x 1000	YSV-2010	YSO-2010

## CABINET WITH 7 DRAWERS



- High temperature stratified top (40 mm). Maximum load 1000kg
- Height of the bench: 840mm (top included)
- Cabinet with 7 drawers (7 drawers H100mm)

Dims (mm)	Ref.	Ref.
1800 x 750	70TV-187S	70TO-187S
1800 x 1000	70TV-1810S	70TO-1810S
2000 x 750	70TV-207S	70TO-207S
2000 x 1000	70TV-2010S	70TO-2010S

## CABINET WITH 3 DRAWERS



- High temperature stratified top (40 mm). Maximum load 1000kg
- Height of the bench: 840mm (top included)
- Cabinet with 3 drawers (2 drawers H200mm + 1 drawer H300mm)

Dims (mm)	Ref.	Ref.
1800 x 750	31TV-187S	31TO-187S
1800 x 1000	31TV-1810S	31TO-1810S
2000 x 750	31TV-207S	31TO-207S
2000 x 1000	31TV-2010S	31TO-2010S

## BENCHES WITH 1 HANGING DRAWER



- High temperature stratified top (40 mm). Maximum load 1000kg
- Height of the bench: 840mm (top included)
- Cabinet with 1 drawer H100mm

Hanging drawers with lock (can be placed anywhere under the bench top)

**For adjustable height bench with hanging drawers, contact us**

Dims (mm)	Ref.	Ref.
1800 x 750	XSV-187	XSO-187
1800 x 1000	XSV-1810	XSO-1810
2000 x 750	XSV-207	XSO-207
2000 x 1000	XSV-2010	XSO-2010

# Standard benches

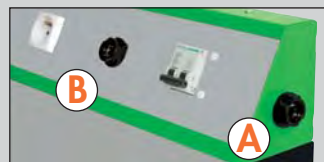
## Choose and configure your own workbench

### ADDITIONAL ITEMS



RJ45  
socket  
not wired

ref. SERJ45



Combination of 2 RJ45 connectors connected together in the console. The side connector **A** is used to connect the network input, the front connector **B** is for the user's connection.

ref. CARJ45



Power socket  
230V (E type).  
Other models  
upon request.

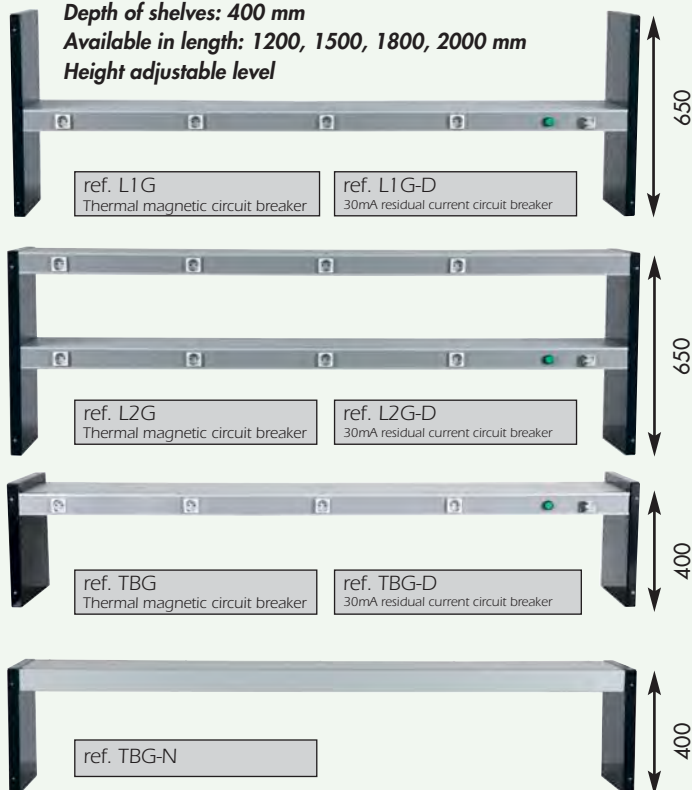
ref. PRISE+

### COMPUTER ITEMS SEE PAGES 18-19



### SHELVES

Thickness of uprights: 35 mm  
Depth of shelves: 400 mm  
Available in length: 1200, 1500, 1800, 2000 mm  
Height adjustable level



ref. L1G  
Thermal magnetic circuit breaker

ref. L1G-D  
30mA residual current circuit breaker

ref. L2G  
Thermal magnetic circuit breaker

ref. L2G-D  
30mA residual current circuit breaker

ref. TBG  
Thermal magnetic circuit breaker

ref. TBG-D  
30mA residual current circuit breaker

ref. TBG-N

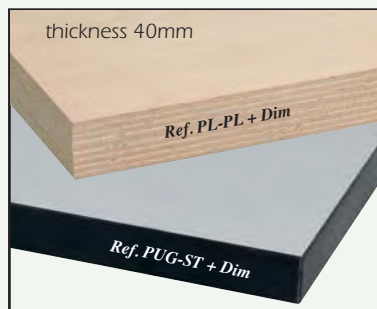
### LIGHTING OPTION

- Fluorescent light 18W with On/Off button
- Underneath the lowest level, when 2 levels



ref. ET-ECL

### HIGH TEMPERATURE STRATIFIED\* TOP AND WOODEN TOP



REF	WIDTH.	DEPTH
PUG-ST	1200mm STRAT	750mm or 1000mm
PL-PL	1200mm WOOD	750mm or 1000mm
PUG-ST	1500mm STRAT	750mm or 1000mm
PL-PL	1500mm WOOD	750mm or 1000mm
PUG-ST	1800mm STRAT	750mm or 1000mm
PL-PL	1800mm WOOD	750mm or 1000mm
PUG-ST	2000mm STRAT	750mm or 1000mm
PL-PL	2000mm WOOD	750mm or 1000mm

#### MAIN FEATURES OF HIGH TEMPERATURE STRATIFIED TOP



Uniformly  
distributed



Heat  
resistant



Abrasion  
resistant



Scratch  
resistant



Chemical  
resistant



Easy to  
clean

#### MAIN FEATURES OF WOODEN TOP



Uniformly  
distributed



Shock  
resistant



## VERTICAL CABLE RACEWAY & 360° LAMP

For the wiring of the power cable from the aerial wiring system to the base of the power supply

ref. DEG-1

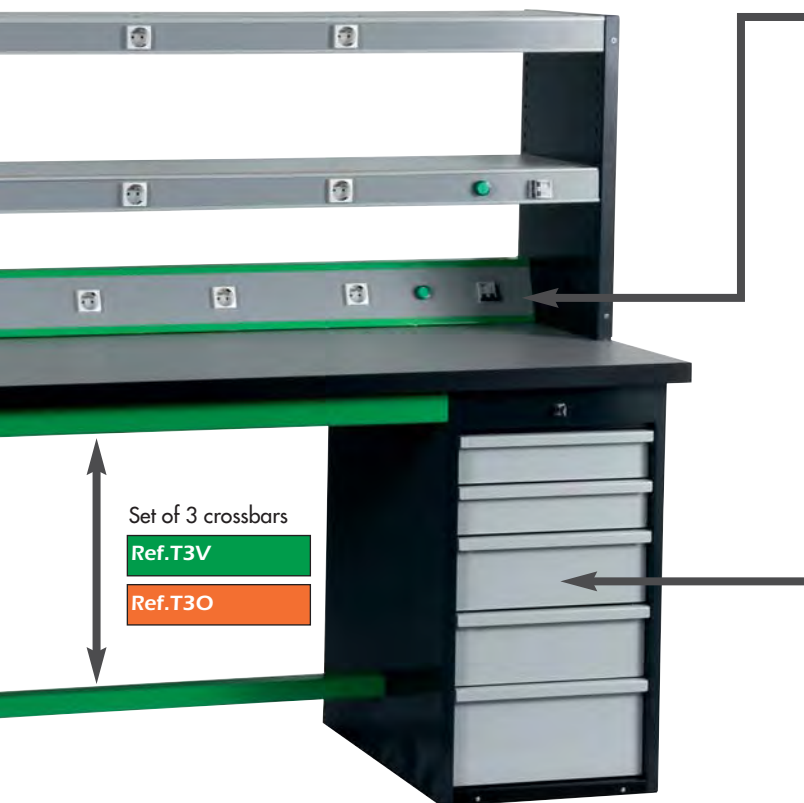
Model for power cable and network cable

ref. DEG-2

Beacon with 3 light indicators  
ref. VOY181

Beacon with 2 light indicators  
ref. VOY121

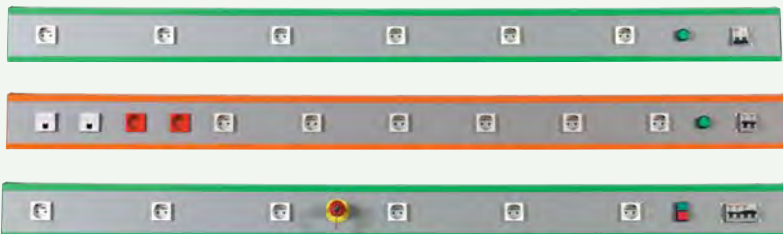
Beacon with 1 light indicator  
ref. VOY61



## POWER CONSOLES

Available in length: 1120 – 1430 – 1730 -1920 mm

PVC front panel can be fitted with electrical components and outputs of your choice  
See page 16 for standard models available



## LEG-MOUNTED CABINETS WITH LOCK

- Available with drawers or swing door
- For top in depth 750 mm or 1000 mm

SEE PAGE 14 FOR MORE INFORMATION



## HANGING DRAWERS

- Hanging drawers, 1 to 4 drawers
- For top in depth 750 mm or 1000 mm

SEE PAGE 15 FOR MORE INFORMATION



## SINGLE LEGS



Model for top in 750mm depth

ref. PHG-75

Model for top in 1000mm depth

ref. PHG-100

## LAYOUT OF DRAWERS

- 3 different types of compartments
- Suitable for drawers of leg-mounted cabinets or hanging drawers

SEE PAGE 15 FOR MORE INFORMATION



# Standard benches

## Leg mounted cabinet for benches (with lock)



There are two depths available for cabinets with swing doors and drawers: 750 and 1000mm  
For this latter, the reference is followed by the extension 100.  
Example: 30G-100

- The drawers are mounted on ball bearings so they slide easily and silently. They are removable so drawers can be switched around or sorted.
- The lock secures all the drawers at the same time. In standard, all keys are identical. Different keys can be available upon request.
- Drawers with a height of 300 mm are suitable for standard hanging folders.



ref. 30G-75

ref. 30G-100



ref. 31G-75

ref. 31G-100



ref. 40G-75

ref. 40G-100



ref. 41G-75

ref. 41G-100



ref. 42G-75

ref. 42G-100



ref. 43G-75

ref. 43G-100



ref. 50G-75

ref. 50G-100



ref. 51G-75

ref. 51G-100



ref. 52G-75

ref. 52G-100



ref. 53G-75

ref. 53G-100



ref. 60G-75

ref. 60G-100



ref. 61G-75

ref. 61G-100



ref. 70G-75

ref. 70G-100

Cabinet with lockable swing door. Can be opened from the left or the right (through reversal)

L = 450mm  
H = 800mm  
P = 665 or 890mm

2 shelves / 3 levels



ref. PTG-75

ref. PTG-100

# Hanging drawers

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

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

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

As standard, all keys are identical. Different keys are available upon request



Ref. TIG-30



Ref. TIG-32



Ref. TIG-33

## HANGING DRAWER WITH LOCK AND KEY

For top in depth 750 mm or 1000 mm  
Height: 100 mm - Width: 400 mm

ref. TIG-10



## HANGING DRAWERS (400 SERIES) WITH LOCK AND KEY

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

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



Ref. TIG-40



Ref. TIG-41



Ref. TIG-42



Ref. TIG-43

Drawers with a height of 300 mm are suitable for standard hanging folders.

# Layout of drawers in cabinet or hanging drawers

The drawers can be removed easily by lifting them out, so you can take parts to a construction site, sort the drawers without having to bend over, or simply reverse two drawers. The drawers are mounted on ball bearings. They slide easily and silently. You can place moulded drawer ties in these drawers.

3 types of compartment are available :

- **Small** : 75x75 H55mm
- **Medium** : 285x75 H55mm fitted with a removable divider
- **Large** : 415x75 H55mm fitted with three removable dividers



REF. AMN-08

**4 fixed & 16 modular spaces**  
4 small  
4 large (4 to 16 compartments)



REF. AMN-16

**12 fixed & 8 modular spaces**  
12 small  
4 medium (4 to 8 compartments)



REF. AMN-20

**18 fixed & 4 modular spaces**  
18 small  
2 medium (2 to 4 compartments)



REF. AMN-24

**24 fixed spaces**  
24 small



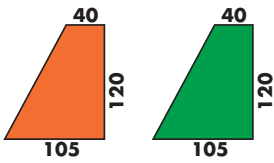
Power consoles on the bench top

HARD-WEARING LAMP (without maintenance)

Power console with a PVC front panel. Available in a range of lengths 1120 – 1430 – 1730 – 1920 mm. 1920mm in standard. Please confirm the length at order.



Ref.	Ref.	Protection type
RAV-20	RAO-20	Thermal magnetic circuit breaker
RAV-20D	RAO-20D	30mA Residual current circuit breaker



- 6 power sockets 230V (2P+E)
- A circuit breaker (two possible choices)
- A hardwearing Ø30 LED lamp indicating that sockets are switched on



Ref.	Ref.	Protection type
PAV-20	PAO-20	Thermal magnetic circuit breaker
PAV-20D	PAO-20D	30mA Residual current circuit breaker

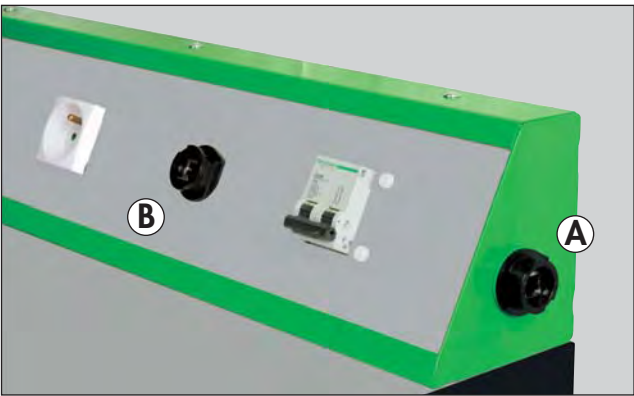
- 6 power sockets 230V (2P+E)
- A circuit breaker (two possible choices)
- A hardwearing Ø30 LED lamp indicating that sockets are switched on
- A key-operated emergency stop button which activates an undervoltage trigger, thereby ensuring positive safety



Ref.	Ref.	Protection type
XAV-20	XAO-20	Thermal magnetic circuit breaker
XAV-20D	XAO-20D	30mA Residual current circuit breaker

- 6 power sockets 230V (2P+E)
- A circuit breaker (two possible choices)
- A hardwearing Ø30 LED lamp indicating that sockets are switched on
- A key-operated emergency stop button which activates an undervoltage trigger, thereby ensuring positive safety
- An On/Off button (positive safety)

RJ45 wired plug



Combination of 2 RJ45 connectors connected together in the console. The side connector **A** is used to connect the network input, the front connector **B** is for the user's connection.

ref. CARJ45

MADE TO MEASURE





# Additional items

All these elements can be added to the power consoles presented below cons.



## SATELLITE PLUG

Ref. SE-SAT



## TV PLUG

Ref. SE-TEL



## INVERTER PLUG

Ref. SE-UPS

Not wired.  
For U.P.S.



## RJ45 PLUG (NOT WIRED)

ref. SERJ45



## 230V PLUG (2P + E)

ref. PRISE+

Additional power socket.



## DC POWER SUPPLY

ref. AD15I

Unit of 2 fixed DC power supplies  
+15V/3A - 15V/3A

**INFORMATION: All power sockets are wired**  
(The power cable of the console is not supplied)  
Recommendation: use a power cable in 3x2.5mm<sup>2</sup>  
(phase + neutral + earth)

# 230V multi sockets unit



Can only be fixed with plastic screws  
(plastic housing)

ref. LGS-8

Unit of 8 power sockets  
230V (2P+E) - 3860W.  
Dim: 495 x 85 x 55mm

ref. LGS-41

Unit of 8 power sockets  
230V (2P+E) - 1930W.  
Dim: 290 x 85 x 55mm

# Short power console 500mm



Ref. VXV-1

Ref. VXO-1

Thermal magnetic circuit breaker

Ref. VXV-2

Ref. VXO-2

30mA residual current circuit breaker

- 4 power sockets 230V
  - 1 circuit breaker
  - Power gland (in standby)
  - Sockets are wired but the power cable is not supplied.
- Recommendation: use a supple power cable in 3 strands of 2.5mm<sup>2</sup>

# Computer workbenches

## Computer items for workbenches



*Make your own computer workbench by choosing additional items in this page.  
Computer hardware not supplied.*

### SHELF



ref. IFG-ETG

Short shelf fixed on the bench-top  
Width: 500mm,  
Height & depth: 400 mm  
The bench top positioning can be selected during the assembly.

### SLIDING KEYBOARD/MOUSE SHELF UNDER THE BENCH-TOP



ref. IFG-TAB

The sliding shelf can be locked in the extended position  
Dim: 620 x 320mm. Stratified top. Supplied pre-assembled.

### BASIC CPU TOWER HOLDER

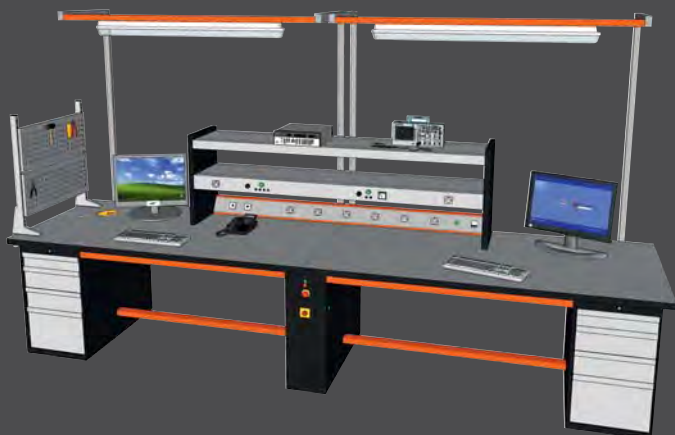


ref. IFG-ECO

Holder is screwed under the bench. Users have easy access to cable connections and drives. Sturdy and economical, this device ensures that the CPU tower is stored tidily and protected against theft. .

- 45 x 45mm wire mesh
- 50mm front locking bar
- Total internal height = 500mm
- Internal width 245mm
- Internal depth 500mm
- Attached with lag screws (supplied)
- EPOXY paintwork. Steel sheet base plate. Unloaded weight: 5 kg

## MADE TO MEASURE



### CPU TOWER HOLDER adjustable in height from 360 to 480mm



ref. IFG-UC

Adjustable in increments of 30mm.  
Solid sheet box.  
With anti-theft bars at the front and rear.



ref. IFG-UC2

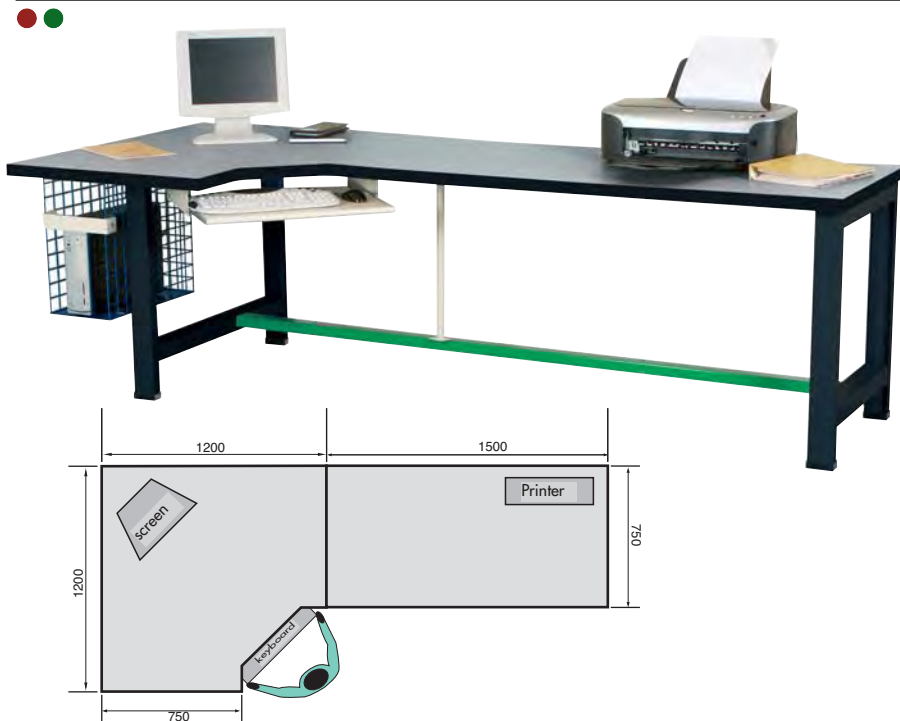
Adjustable in increments of 30mm.  
Solid sheet box.  
With anti-theft doors at the front and rear with locks.





# Computer workbenches

## Computer workshop



This bench opens up a wealth of possibilities for expanding access to computer workshops, thanks to the large space available on the bench-top. Its standard supplied equipment, which is described below, can be modified on simple request. Its L-shape means that it is highly ergonomic. It is reversible; the return can be positioned either on the left or on the right.

### COMPONENTS AND FEATURES OF STATION

- 2 high-temperature stratified tops
  - Separable corner and return
  - PVC edges
  - Thickness of 40mm
- A "cage"-type CPU tower holder with anti-theft bar at the front.
- A sliding keyboard/mouse holder in the corner
- 1 complete stand consisting of:
  - Two single H-shaped legs, 2250mm apart
  - Vertical support leg under bench-top
  - Footrest bar
- Epoxy paintwork

ref. TSV-30

ref. TSO-30

*Computer hardware not supplied*

## Workstation for practical work



This bench is a comfortable and spacious unit for tutorials which require the use of computers and measuring equipment.

With a side shelf, a mini-console and special equipment to accommodate all the computer elements.

The TXL40 is very convenient to use.

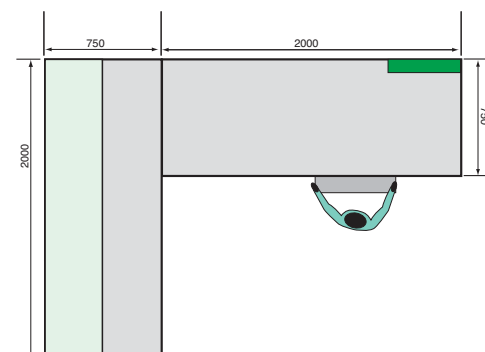
### COMPONENTS AND FEATURES OF THE STATION

- Two 40mm high-temperature stratified tops with PVC edges
- 1 "cage"-type CPU tower holder with anti-theft bar at the front.
- 1 sliding keyboard/mouse holder
- 1 base with furnace-baked epoxy paint, vertical support leg and footrest bar.
- 1 mini-console fitted with 4 power sockets 230V + circuit breaker + LED lamp
- 1 shelf fitted with 4 power sockets 230V + circuit breaker at the back + LED lamp
- Height of the working surface: 840mm (top included)
- A very large work surface

ref. TXV-40

ref. TXO-40

*Computer hardware not supplied*



## MADE TO MEASURE





# Industrial computer trolley



Industrial computer cart, ideal for the workshop.  
Dimensions (excluding screen support) 750 x 670mm. Height 965mm.  
Max load 500kg.

## FEATURES OF THE WORKSTATION

- High-temperature stratified bench-top 40mm thick  
PVC bench-top edges
- Cage type CPU holder  
With anti-theft bar at the front.
- 1 complete stand (epoxy paint) including:  
Two single H type feet  
3 cross rails including 1 foot rest  
4 casters Ø100mm including 2 with brakes
- 1 flat screen support arm  
Table edge attachment between 15 and 100mm thick.  
400-mm high pole, fitted with sliding ball joint.  
Built-in cable guide.

Supplied with 4 screws for the screen.

For flat screens up to 12 kg

3 rotation points on 2 ball joints

Sliding ball joint for screen height adjustment

ref. RSV-INF

ref. RSO-INF

*Computer hardware not supplied*

# Mobile workstation for industrial computer



Industrial computer cart, ideal for the workshop.  
Dimensions (excluding screen support) 1500 x 750mm Height 965mm.  
Max load 500kg.

## FEATURES OF THE WORKSTATION

- High-temperature stratified bench-top 40mm thick  
PVC bench-top edges
- Cage type CPU holder  
With anti-theft bar at the front.
- A sliding keyboard/mouse holder in the corner
- 1 complete stand (epoxy paint) including:  
Two single H type feet  
3 cross rails including 1 foot rest  
4 casters Ø100mm including 2 with brakes
- 1 flat screen support arm  
Table edge attachment between 15 and 100mm thick.  
400-mm high pole, fitted with sliding ball joint.  
Built-in cable guide.

Supplied with 4 screws for the screen.

For flat screens up to 12 kg

3 rotation points on 2 ball joints

Sliding ball joint for screen height adjustment

ref. RSV-PRO

ref. RSO-PRO

*Computer hardware not supplied*



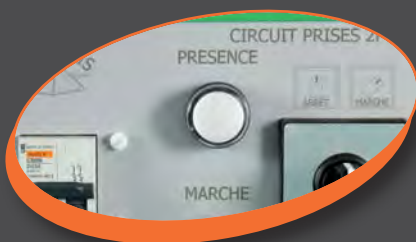
## Option 230V multi sockets unit fixed under the top

4 plugs 2P+E - 3860W Dim. 290 x 80 x 60mm.

ref. LGS-41

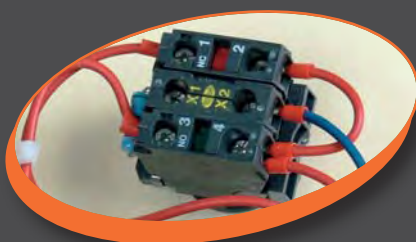
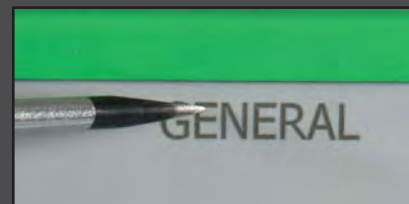
# WORKSTATIONS

## our quality commitment



### Engraving on the front in the part

Potential for symbols, icons, logos or personalisations engraved on the front. The engraving in the part is impervious to abrasion and cannot be removed.



### Crimped cable conduit sleeves for optimal contact

The crimped sleeves limit risk of fire or electrocution during maintenance.



### Resistant LED indicator lights

Cannot be removed by the student (no ability to unscrew the front cap)  
No risk of accidental contact for the maintenance operator

Front cover non-removable.



Inaccessible contacts



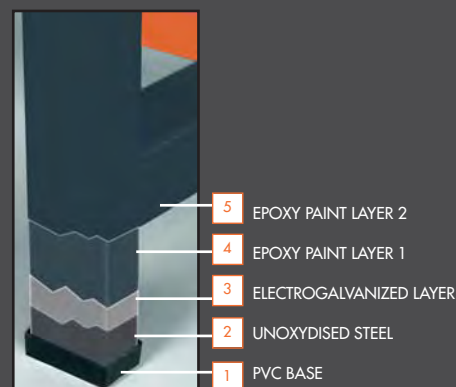
### Control console free of metal components

All our components are free of accessible metal pieces (except for the ground). The PVC front face is entirely free of metal elements, even of screws, which provides a high degree of safety against indirect contact.



### Epoxy paint & electrogalvanized steel

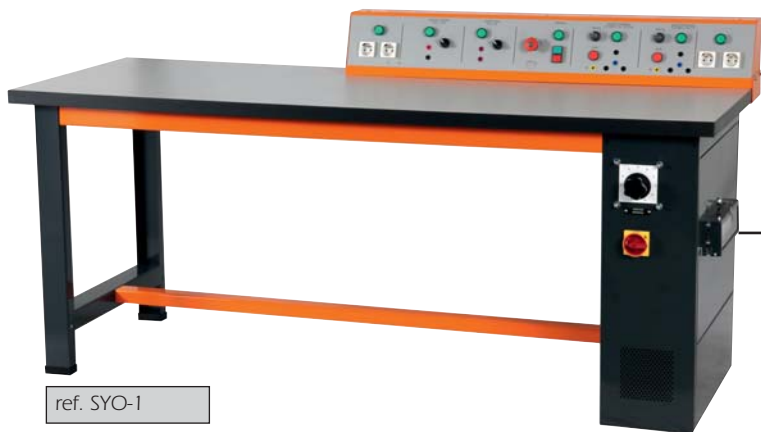
All of our leg assemblies are manufactured from electrogalvanised steel sheet, and makes the sheet extremely resistant to corrosion. This protection is strengthened further by two layers of furnace-baked epoxy paint, which means that it is suitable for use even in tropical settings.



# Multi purpose workstation

## Standard multi-purpose workstation

HARD-WEARING LAMP (without maintenance)



ref. SYO-1

### LOCKABLE COVER FOR CIRCUIT BREAKERS

Circuit breakers are placed behind a lockable transparent cover  
Restricted access  
IP2X protection



It is a single, fully-equipped electric-powered station which complies with current standards and is ready to be connected to the electric network. The start-up systems and connection terminals are installed on an electrotechnical console. There are many standard configurations, and these can be modified easily on simple application. All workbenches have a key-operated "EMERGENCY STOP" button for autonomous positive safety and an On/Off push-button with a lamp and "memory" function.

### ANTI-VANDALISM COVER WITH KEY

This pull-down cover in front of the electrical equipment in the console prevents students from scribbling on or vandalising the front and its equipment. Standard dimensions: 1200mm.

Other dimensions upon request.

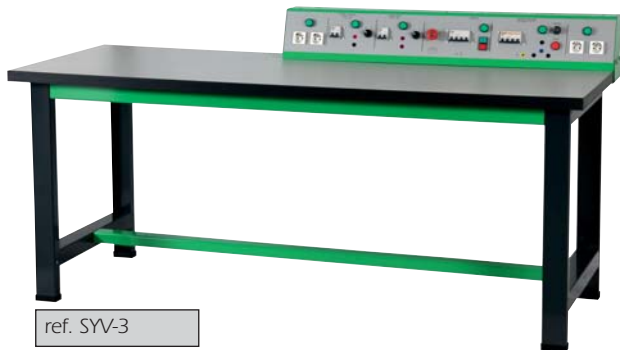


System of lock with hook taken in the plate. Compatibility with a shelf, contact us.

ref. VS-1200

Ref.	Ref.	Thermal magnetic circuit breaker (D type)	3-phase mains on 4 safety terminals	4 power sockets 230V 2P+E	3-phase 0-430V 3.5kVA variable	Fixed 240VDC/2A insulated	Fixed 24VAC/5A with circuit breaker	Stratified bench-top 2000x750	Stratified bench-top 2000x1000	Technical leg
SYO-1	SYV-1	x	x	x	x	x	x	x		x
SYO-2	SYV-2	x	x	x	x	x	x		x	x
SYO-3	SYV-3	x	x	x		x	x	x		
SYO-4	SYV-4	x	x	x		x	x		x	
SYO-5	SYV-5	x	x	x			x	x		
SYO-6	SYV-6	x	x	x			x		x	
SYO-7	SYV-7	x	x	x				x		
SYO-8	SYV-8	x	x	x					x	

### ● HARD-WEARING LAMP WITHOUT MAINTENANCE



ref. SYV-3



MADE TO MEASURE



# Multi purpose workstation

## Choose & configure your own workstation



First select the base unit (Stand + top + bare console) of your choice from the two versions available, and select the electrical elements that you wish to install from the various options listed (with an obligatory main module described next page).

Legs + stratified top 2000 x 750mm  
+ bare console

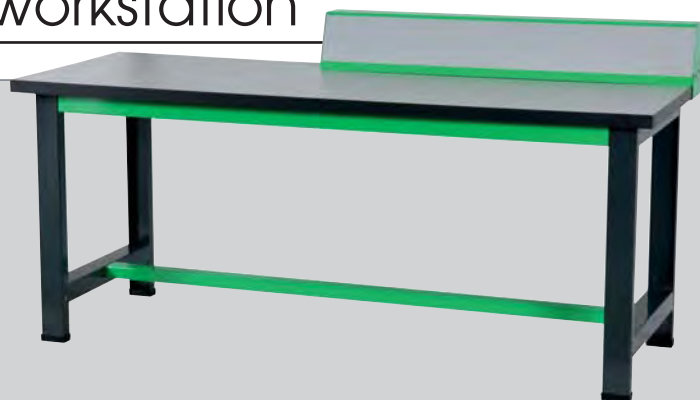
ref. SYV-750

ref. SYO-750

Legs + stratified top 2000 x 1000mm  
+ bare console

ref. SYV-1000

ref. SYO-1000



### 3-PHASE MODULE 3 X 400V



ref. SE5TR

3-phase supply module (4kVA – fixed 3x400V+N)  
On-Off key control

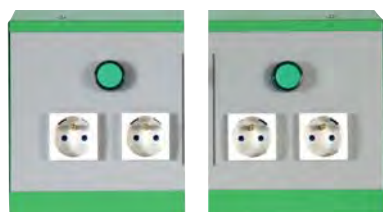
### DC MODULE -15VDC +15VDC 3A



ref. AD15I

DC fixed supply with 2 outputs  
+15V/3A -15V/3A

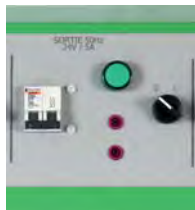
### MAINS SOCKETS MODULE



ref. SE4PC

Module with 2 x 2 power sockets 230V + lamp.  
WITH POWER SOCKETS OF YOUR CHOICE

### AC SUPPLY MODULE 24V



ref. SE3BT

Module 24V/5A insulated from mains

### 3-PHASE HYPRASOCKET MODULE



ref. HP4

Mounted in parallel on 3-phase  
supply with output terminals (only  
available with option SE5TR)

### MEASURED POWER SOCKET MODULE



ref. SEPCW

Output on power socket 2P+E with wattmeter direct  
display of consumed power.  
Measuring apparatus: 10000 pts  
Maximum power: 3500W  
Protection by circuit breaker on the front panel

### DC MODULE (240VDC)



ref. SE2SO

DC fixed 240V/2A insulated from mains

### 3-PHASE MODULE 0-430V



ref. SE6VA

3-phase 0-430 VAC variable – 3.5kVA  
Module with technical leg. On-Off key control

### 360° LIGHT SIGNAL TOWERS



Beacon with 3 light indicators:  
red, yellow and green Ø60mm

ref. VOY181



Beacon with 2 light indicators:  
red and green Ø60mm

ref. VOY121



Beacon with a red light indicator (voltage  
presence) Ø60mm

ref. VOY61

COLOURS AVAILABLE UPON REQUEST  
white - orange - red - green - blue



HARD-WEARING LED LAMPS



### ANTI-VANDALISM EMERGENCY STOP

The emergency stop head turns freely, vandals cannot tear out the electrical connections by  
forceably turning the head of the emergency stop which stays attached to the front.

ref. ARU-AV



**OBLIGATORY MAIN MODULES**

Choose one of these main modules with or without on/off key control

SE1MA without on/off key control

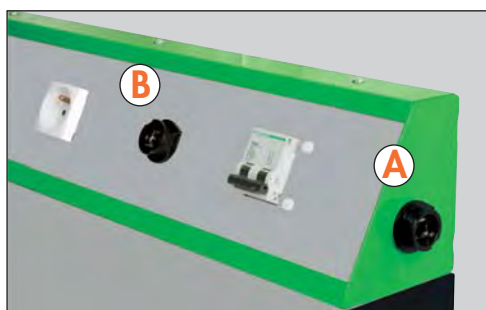
ref. SE1MA  
for 3-phase mains supply

ref. SE1MA-MONO  
for single-phase mains supply

SEMC with on/off key control

ref. SEMC  
for 3-phase mains supply

ref. SEMC-MONO  
for single-phase mains supply

**WIRED SOCKET RJ45 MODULE**

ref. CARJ45

Combination of 2 RJ45 connectors connected together in the console. The side connector **A** is used to connect the network input, the front connector **B** is for the user's connection.

**RJ45 SOCKET MODULE**

ref. SERJ45

RJ45 socket installed  
but not connected

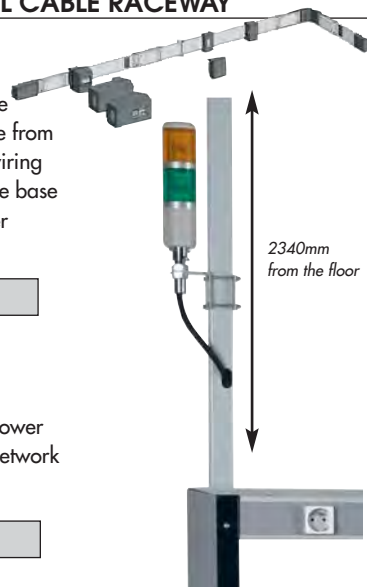
**VERTICAL CABLE RACEWAY**

For the wiring of the power cable from the aerial wiring system to the base of the power supply

ref. DEG-1

Model for power cable and network cable

ref. DEG-2

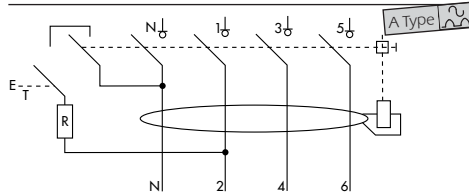


2340mm  
from the floor

**POWER SUPPLY BOX**

ref. CIA-A4

3-phase mobile power supply. On/off button + emergency push button. Outputs on safety terminals + protection by circuit breaker

**RESIDUAL CURRENT CIRCUIT BREAKER**

ref. DIF30-4S for 3-phase workstation

ref. DIF30-2C for single-phase workstation

30mA protection at the front. Useful only if the room is not equipped with this device.

**ANTI-VANDALISM COVER WITH KEY**

This pull-down cover in front of the electrical equipment in the console prevents students from scribbling on or vandalising the front and its equipment. Standard dimensions: 1200mm.

Other dimensions upon request.



System of lock with hook taken in the plate



ref. VS-1200

**COMPUTER CONNECTION (COPY OF THE REAR PANEL OF A PC)**

ref. SEINF

The rear panel of a PC is transferred on the front console with:

- 2x serial & 1x parallel port
- 2x USB port
- 1x VGA 15 pins port
- 1x PS/2 Keyboard port

All cables get out under the worktop, ready to be linked to a CPU tower.

Other configurations are available upon request.

**LOW SHELF WITH POWER SOCKETS**

available in different lengths

Low shelf with 4 power sockets, lamp and circuit breaker  
Height: 400mm

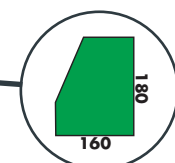
ref. TBG

# Electrotechnical benches

## Electrotechnical benches



Type BZO\*\*-D



Range of stand-alone, complete and reliable bench. This equipment complies with laboratory international safety standards. It is made up of 1 or 2 electrical cabinets locked by key, connected by a foot rest. The top of dimensions 2000 x 750 mm in standard is stratified. All outputs are equipped with safety terminals 4mm (Supplies & Loads).



**LOCKABLE COVER FOR CIRCUIT BREAKERS**  
Circuit breakers are placed behind a lockable transparent cover  
Restricted access IP2X protection



4000VA		ELECTROTECHNICAL BENCHES OF 4KVA RATING								
Ref.	Ref.	DC SUPPLY 0-270V 16A	3-PHASE 0-450V 8A	AUXILIARY 0-250VDC 2.5A	AUXILIARY 0-250VAC 2.5A	3-PHASE 3x400VAC 4 TERMINALS	4 POWER SOCKETS 230V 2P + E	RESISTIVE LOAD 4000W	INDUCTIVE LOAD 4000VAR	CAPACITIVE LOAD 4000VAR
BZO-40A	BZV-40A	x	x	x	x	x	x	x	x	x
BZO-40B	BZV-40B	x	x	x	x	x	x	x	x	
BZO-40C	BZV-40C	x	x	x	x	x	x	x		
BZO-40D	BZV-40D	x	x	x	x	x	x			

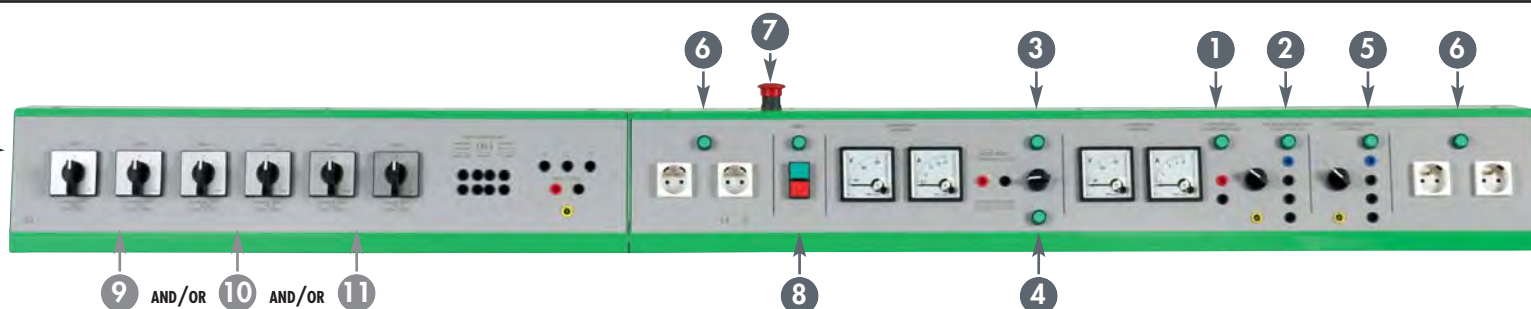
2000VA		ELECTROTECHNICAL BENCHES OF 2KVA RATING								
Ref.	Ref.	DC SUPPLY 0-270V 8A	3-PHASE 0-450V 5A	AUXILIARY 0-250VDC 2.5A	AUXILIARY 0-250VAC 2.5A	3-PHASE 3x400VAC 4 TERMINALS	4 POWER SOCKETS 230V 2P + E	RESISTIVE LOAD 2000W	INDUCTIVE LOAD 2000VAR	CAPACITIVE LOAD 2000VAR
BZO-20A	BZV-20A	x	x	x	x	x	x	x	x	x
BZO-20B	BZV-20B	x	x	x	x	x	x	x	x	
BZO-20C	BZV-20C	x	x	x	x	x	x	x		
BZO-20D	BZV-20D	x	x	x	x	x	x			

1000VA		ELECTROTECHNICAL BENCHES OF 1KVA RATING								
Ref.	Ref.	DC SUPPLY 0-270V 7A	3-PHASE 0-430V 5A	AUXILIARY 0-250VDC 2.5A	AUXILIARY 0-250VAC 2.5A	3-PHASE 3x400VAC 4 TERMINALS	4 POWER SOCKETS 230V 2P + E	RESISTIVE LOAD 1000W	INDUCTIVE LOAD 1000VAR	CAPACITIVE LOAD 1000VAR
BZO-10A	BZV-10A	x	x	x	x	x	x	x	x	x
BZO-10B	BZV-10B	x	x	x	x	x	x	x	x	
BZO-10C	BZV-10C	x	x	x	x	x	x	x		
BZO-10D	BZV-10D	x	x	x	x	x	x			

•HARD-WEARING LAMP WITHOUT MAINTENANCE

•INSULATED OUTPUT

•LOADS INSIDE THE LEFT-HAND CABINET



## 1 MAIN DC SUPPLY

0 - 270V variable and insulated from the mains by insulated transformer as specified by safety standards for the use of direct currents. The whole unit is protected against overloads and short circuits. Rectification is provided by a generously over-specified Graetz bridge (ripple rate 4%). Voltmeter and ammeter displays. A magneto-thermal circuit breaker protects this output. A contactor with a control button gives start/stop functions command, on condition that this the autotransformer output is at 0V. An indicator light shows that the unit is powered up.

## 2 VARIABLE 3-PHASE SUPPLY

Variable by autotransformer and protected against overloading and short circuits. The voltage range on offer is 0-430V between phases (450V for the 4000VA model). A thermal magnetic circuit breaker protects this output. A push button contact performs start/stop switching as long as the autotransformer is at 0 voltage. An indicator light shows that the unit is powered up

*Main supplies 1 & 2 can't work simultaneously*

## 3 DC AUXILIARY SUPPLY

0-250V variable by single phase autotransformer protected against overloading and short circuits. Voltmeter and ammeter displays. An On/Off button control. An indicator light shows that the unit is powered up.

*Auxillary supplies 3 & 4 can't work simultaneously*

## 4 SINGLE-PHASE AUXILIARY SUPPLY

0-250V variable by single phase autotransformer protected against overloading and short circuits. Voltmeter and ammeter displays. An On/Off button control.

## 5 3-PHASE SUPPLY (3X400VAC FIXED)

On four terminals, protected, with switch and On/Off button control. An indicator light shows that the unit is powered up

## 6 4 POWER SOCKETS 230V (2P + E)

230V sockets (2 on either side)

## 7 EMERGENCY STOP BUTTON

Key controlled in the centre of the console (can be mounted in alternative positions on request). It cuts out a single bank without affecting the others. Positive security stop.

## 8 PUSH BUTTON

Start/Stop with indicator providing start-up with "memory" function. An indicator light shows that the unit is powered up

## 9 RESISTIVE LOAD

Consisting of a resistive wire wound on ceramic cores (protected against oxydation). The 6 switches (rapid breaking type for inductive loads) can be varied in 5% steps.

The switches are placed on the bank next to the input connectors and selector links for single-phase and DC 240V, 3-phase 240VAC or 3-phase 400VAC.

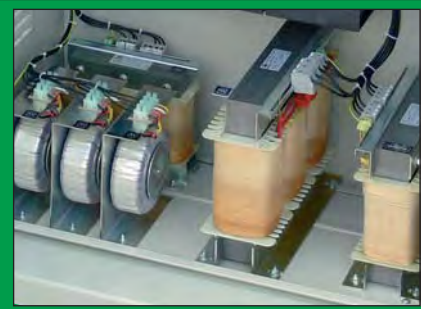
## 10 CAPACITIVE LOAD

Consisting of capacitors which can operate at 450VAC. The switches, selector links and input connectors are on the bank and easy to access. The load can be varied in 5% steps. It may be used in single-phase on DC 240V, 3-phase 240VAC or 3-phase 400VAC. **(A version only)**

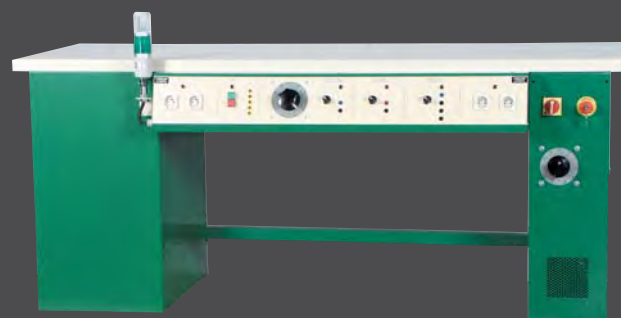
## 11 INDUCTIVE LOAD

3 moveable cores moved by a control wheel and an endless screw, altering the inductance of the 3 windings allows regulation of power factor from 0.9 to 0.1 in single- or 3-phase. The links and input connectors are mounted on the console and easily accessible. It may be used in single-phase DC 240V, 3-phase 240V or 3-phase 400V. The coils are all protected by fuses **(A and B versions only)**.

For your safety the DC outputs are separated from the mains by safety isolating transformer



MADE TO MEASURE



# Electrotechnical benches

## Options for Electrotechnical bench

### BENCH TOP IN 1000mm DEPTH

Dimensions 2000 x 1000 mm  
Usable space 2000 x 850 mm

ref. AUG1000-ST

### SHELF

Lowered shelf (400mm high)  
Depth: 400mm

ref. TBG-200



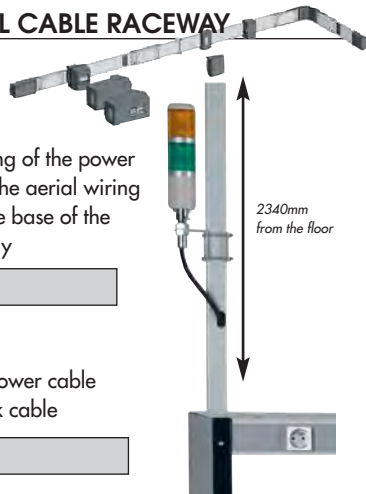
### VERTICAL CABLE RACEWAY

For the wiring of the power cable from the aerial wiring system to the base of the power supply

ref. DEG-1

Model for power cable and network cable

ref. DEG-2



### 360° LIGHT SIGNAL TOWERS



Beacon with 3 light indicators: red, yellow and green

ref. VOY181

Beacon with 2 light indicators: red and green

ref. VOY121

Beacon with a red light indicator (voltage presence)

ref. VOY61

COLOURS AVAILABLE UPON REQUEST  
white - orange - red - green - blue



HARD-WEARING LED LAMPS

### ANTI-VANDALISM COVER WITH KEY

This pull-down cover in front of the electrical equipment prevents students from scribbling on or vandalising the front panel and its equipment. Standard dimensions: 1200mm or 2000mm.



ref. VSG-12  
for power console 1200mm

ref. VSG-20  
for power console 2000mm



System of lock with hook taken in the plate

### DC SUPPLY



Unit of 2 fixed DC power supplies  
+15V/3A -15V/3A

ref. AD151

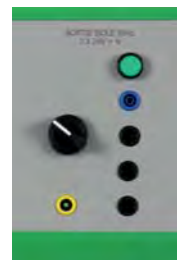
### 3-PHASE HYPRA SOCKET (400VAC)



Fitted in parallel on the three-phase mains output terminals

ref. HP4

### 3-PHASE 24VAC SUPPLY

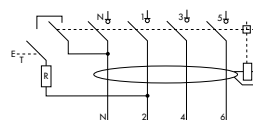


3-phase insulated from the mains, 3 x 24 VAC/250VA and protected by a circuit breaker. Output controlled by On/Off contactor and indicated by a LAMP.

ref. TRI24

### RESIDUAL CURRENT CIRCUIT BREAKER

30mA at the front.  
Only useful if the room is not equipped with this device.



ref. DIF30-4B

A Type

### DC VARIABLE SUPPLY



DC power supply with adjustable voltage  
0-30V DC/3A

ref. R30301

### CANALIS CONNECTER

Connector for KNA Canalis with fuses 10x38.



ref. KNA02CF5

### OVERSPEED MONITORING

Overspeed monitoring option for DC motors. This system, which can be overridden, enables the operator to monitor the minimum auxiliary power supply current in the event of cutting off the main DC power supply.

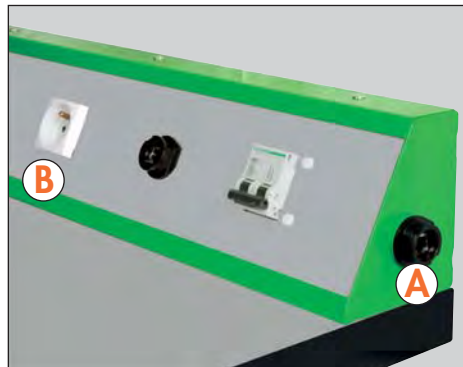


ref. CTRL-E



## RJ45 WIRED PLUG

Combination of 2 RJ45 connectors connected together in the console. The side connector **A** is used to connect the network input, the front connector **B** is for the user's connection.



ref. CARJ45

## RJ45 PLUG (NOT WIRED)



ref. SERJ45

## INVERTER SOCKET



Ref. SE-UTS

Not wired.  
For U.P.S.

## MEASURED POWER SOCKET MODULE



ref. SEPCW

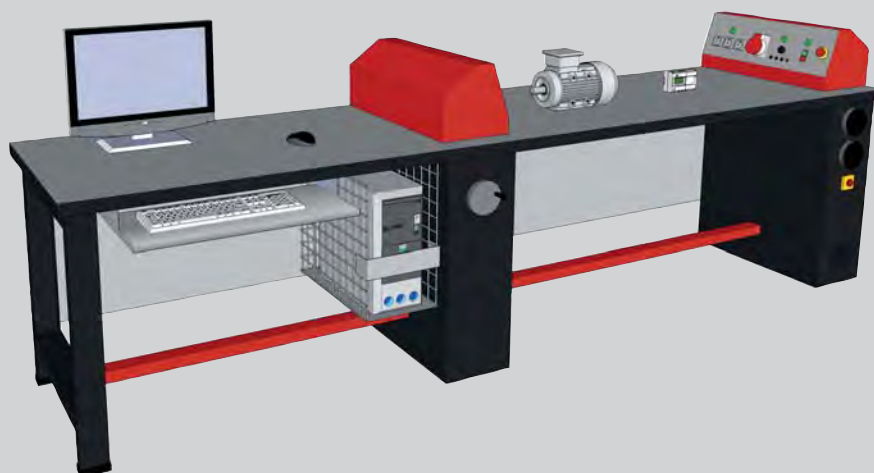
Output on power socket 2P+E with wattmeter direct display of consumed power.

Measuring apparatus: 10000 pts

Maximum power: 3500W

Protection by circuit breaker on the front panel

# MADE TO MEASURE



Touchscreen-controlled station



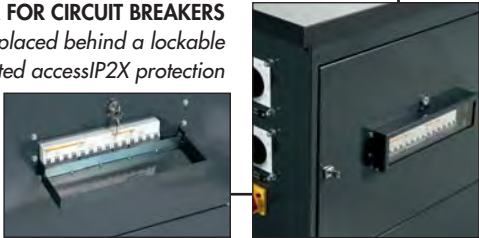
A reliable station, compliant with laboratory safety standards (checked by APAVE and SOCOTEC). It consists of one or two lockable electrical cabinets (depending on the model), connected by 3 cross members including a foot rest, a 2000 x 750mm bench-top with stratified coating as standard and a source distribution console fitted with safety terminals for all loads and sources.

This autonomous bench is fitted with voltage sources controlled by a touch screen. The 5.7-inch colour screen selects the voltage sources and displays information and safety messages such as Pb emergency stop activated or autotransformer not set to zero. A PLC with its Ethernet card manages the station and the connection to the computer network if several stations are used. A room equipped with several touchscreen-controlled stations has the advantage of being network wired from an Ethernet switch or a patch panel. In this way, the teacher can, from a single PC, lock and/or observe the controls on each bench.



Electrical specifications,  
see electrotechnical benches  
PAGE 27

LOCKABLE COVER FOR CIRCUIT BREAKERS  
Circuit breakers are placed behind a lockable transparent cover Restricted access IP2X protection



**FEATURES OF THE PLC/CONTROL SECTION**

- 5.7-inch colour touch screen flush with the front of the console
- TWIDO PLC
- Ethernet interface

The teacher's PC screen supervising the benches in the room

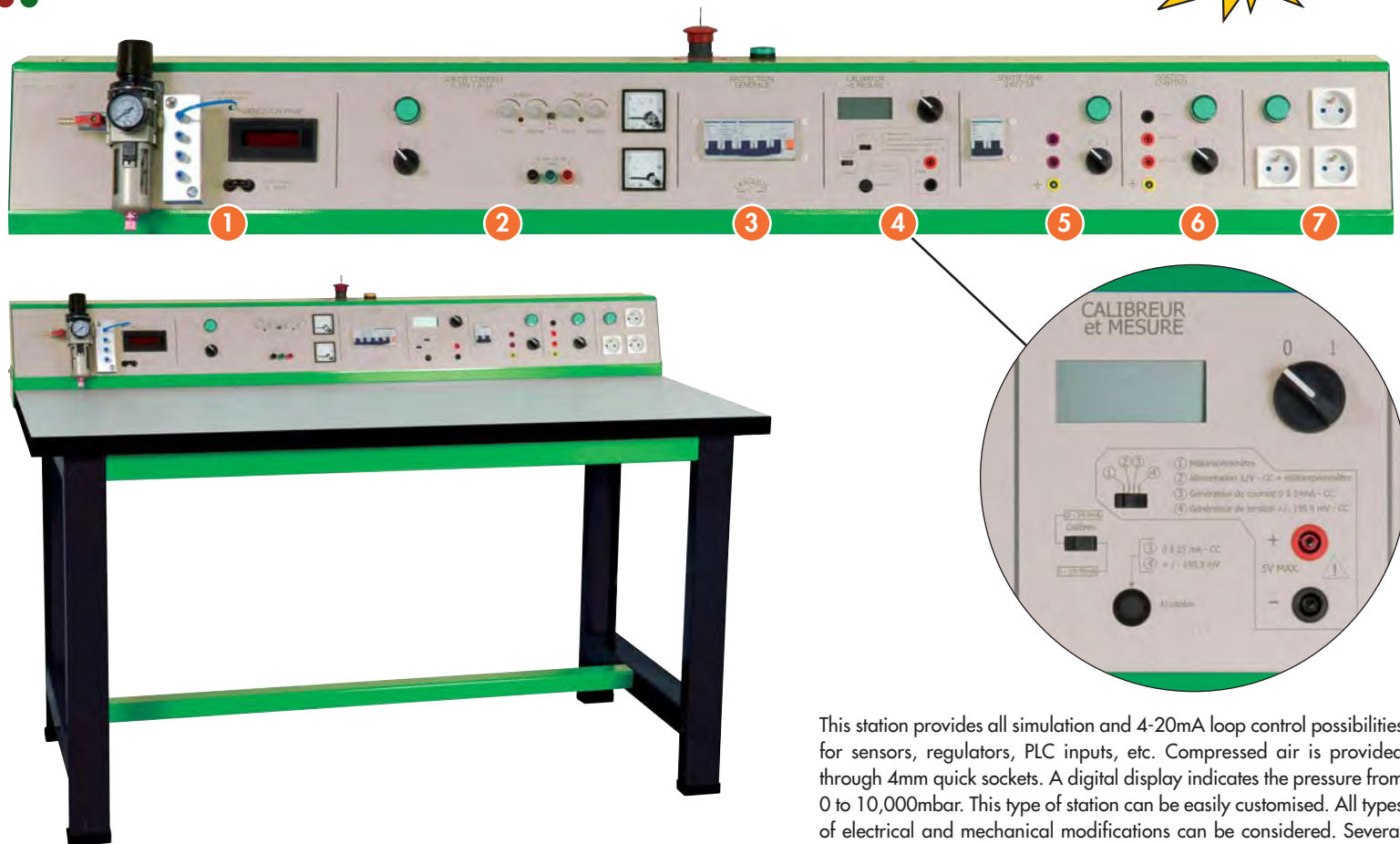
The console touch screen managing the power sources

4000VA*		TOUCHSCREEN CONTROLLED OF 4KVA RATING								
Ref.	Ref.	DC SUPPLY 0-270V 16A	3-PHASE 0-450V 8A	AUXILIARY 0-250VDC 2.5A	AUXILIARY 0-250VAC 2.5A	3-PHASE 3x400VAC 4 TERMINALS	4 POWER SOCKETS 230V 2P + E	RESISTIVE LOAD 4000W	INDUCTIVE LOAD 4000VAR	CAPACITIVE LOAD 4000VAR
BTO-40A	BTV-40A	x	x	x	x	x	x	x	x	x
BTO-40B	BTV-40B	x	x	x	x	x	x	x	x	
BTO-40C	BTV-40C	x	x	x	x	x	x	x		
BTO-40D	BTV-40D	x	x	x	x	x	x			

•HARD-WEARING LAMP WITHOUT MAINTENANCE    •INSULATED OUTPUT    •LOADS INSIDE THE LEFT-HAND CABINET

# 4-20mA loop calibrator

**NEW**



ref. CAO-33


ref. CAV-33

Calibrator features table ④

	Display	Accuracy
Milliammeter	0 – 19.99 mA ± 0.01 mA	± 0,25 % full scale + 1 Digit
	0 – 24 mA ± 0.1 mA	± 0,5 % full scale + 1 Digit
12V voltage generator + Milliammeter	0 – 19.99 mA ± 0.01 mA	± 0,25 % full scale + 1 Digit
	0 – 24 mA ± 0.1 mA	± 0,5 % full scale + 1 Digit
Current generator + Milliammeter	0 – 19.99 mA ± 0.01 mA	± 0,25 % full scale + 1 Digit
	0 – 24 mA ± 0.1 mA	± 0,5 % full scale + 1 Digit
Voltage generator + Milliammeter	-199,9 mV to +199,9 mV ± 0,1 mV	± 0,25 % full scale + 1 Digit

This station provides all simulation and 4-20mA loop control possibilities for sensors, regulators, PLC inputs, etc. Compressed air is provided through 4mm quick sockets. A digital display indicates the pressure from 0 to 10,000mbar. This type of station can be easily customised. All types of electrical and mechanical modifications can be considered. Several options are possible.

## Components and features of the station

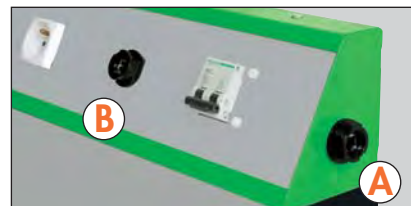
- Workbench with laminated top 1500 x 750mm
  - ① Air feed system with digital pressure display from 0 to 10,000 mbar.  
A 4-20mA signal reflecting the pressure is provided instead of the jumper.
  - ② Variable output 0-30V/3A with current and voltage display and electronic auto-protection.
  - ③ 30mA residual current circuit breaker  + Emergency stop
  - ④ Calibrator / monitor / loop simulator
    - Milliammeter
    - 12V generator + milliammeter
    - 0 to 24mA DC current generator + milliammeter
    - +/- 199.9mV voltage generator + milliammeter
  - ⑤ 24V 50Hz - 5A output protected by circuit breaker
  - ⑥ 12 and 24VDC outputs with electronic auto-protection
  - ⑦ 3 2P+E sockets
- Maintenance-free LED indicator lights

## RJ45 PLUG (NOT WIRED)

ref. SERJ45



## RJ45 WIRED PLUG



Combination of 2 RJ45 connectors connected together in the console. The side connector **A** is used to connect the network input, the front connector **B** is for the user's connection.

ref. CARJ45



## Supplies and loads for renovation project

### STAND ALONE DC & AC POWER SUPPLY



This new technical leg design offers you the option to create a new station or to renovate existing tables. Thanks to its compactness it can act both as a table leg and as an item next to a table. This AXG\*\* (\* represents power) product is completely autonomous. With a simple three-phase mains input + neutral + earth, it can provide all the power supply combinations provided in the table below. Supplied assembled and ready to be connected to 3-phase 400V from mains.

**Height of attachment under bench-top:** 720 to 830mm

**Length:** 665mm

**Total height:** 1050mm (including console).

**Maximum width:** 250mm

#### 1 MAIN DC SUPPLY

0 - 270V variable and insulated from the mains by an insulated transformer as specified by international safety standards for the use of direct currents. The whole unit is protected against overloads and short circuits. Rectification is provided by a generously over-specified Graetz bridge (ripple rate 4%). Voltmeter and ammeter displays. A magneto-thermal circuit breaker protects this output. A contactor with a control button gives command start/stop functions, on condition that the autotransformer output is at 0V. An everlasting indicator light shows that the unit is powered up.

#### 2 VARIABLE 3-PHASE SUPPLY

Variable by autotransformer and protected against overloading and short circuits. The voltage range is 0-430V between phases (450V for the 4000VA model). A thermal magnetic circuit breaker protects this output. A push button contact performs start/stop switching on condition that the autotransformer is at 0 voltage. An indicator light shows that the unit is powered up.

*Main supplies 1 & 2 can't work simultaneously*

#### 3 DC AUXILIARY SUPPLY

0 - 250V variable and insulated from the mains by an insulated transformer as specified by international safety standards for the use of direct currents. The whole unit is protected against overloads and short circuits. Voltmeter and ammeter displays. An On/Off button control. An indicator light shows that the unit is powered up.

#### 4 SINGLE-PHASE AUXILIARY SUPPLY

0-250V variable by single phase autotransformer protected against overloading and short circuits. Voltmeter and ammeter displays. An On/Off button control. An indicator light shows that the unit is powered up.

*Auxiliary supplies 3 & 4 can't work simultaneously*

#### 5 3-PHASE SUPPLY (3 X 400VAC FIXED)

On four terminals, protected, with switch and On/Off button control. An indicator light shows that the unit is powered up.

#### 6 4 POWER SOCKETS 230V (2P+E)

4 x power sockets 230V (2P+E), protected, with indicator lights.

#### 7 EMERGENCY STOP BUTTON

Key controlled in the centre of the console (can be mounted in alternative positions). It cuts out a single bank without affecting the others. Positive security stop.

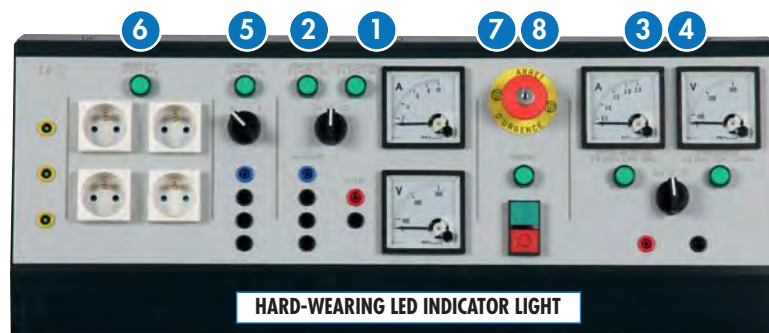
#### 8 PUSH BUTTON

Start/Stop with indicator providing start-up with "memory" function. An indicator light shows that the unit is powered up.



**Lockable cover for circuit breakers on the rear door**

Circuit breakers are placed behind a lockable transparent cover. Restricted access IP2X protection.



Ref	AXG-40	AXG-20	AXG-10
Rating	4000VA	2000VA	1000VA
▼ DC SUPPLY 0-270V	16A	8A	7A
▼ 3-PHASE variable	0-450V/8A	0-430V/5A	0-430V/5A
▼ DC AUXILIARY 0-250VDC	2.5A	2.5A	2.5A
▼ AUXILIARY 0-250VAC	2.5A	2.5A	2.5A
▼ 3-PHASE MAINS	4 terminals 3x400VAC	4 terminals 3x400VAC	4 terminals 3x400VAC
▼ 4 SOCKETS MAINS	230V 2P+E	230V 2P+E	230V 2P+E

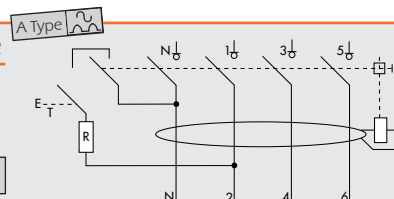
▼ with hard-wearing lamp without maintenance

▼ insulated from mains

#### RESIDUAL CURRENT CIRCUIT BREAKER

30mA at the front. Only useful if the room is not equipped with this device

ref. DIF30-4B



## COMPLETE RESISTIVE LOAD UNIT



This new design enables you to create a new station or to renovate existing benches. Thanks to its compactness it can act both as a table leg and as an item next to a table. This ARG\*\* (\*\*represents power) reference product requires no power supply. Thanks to its smart design, this charging unit does not require forced ventilation. It contains resistors on ceramic tubes (protected from oxidation by a coating).

The 6 switches (snap switches) vary the charge in steps of 5%. These controls are placed on the console with inputs terminals and coupling jumpers (for a use in 240VAC single phase and 240VDC, 3-phase 240VAC or 3-phase 400VAC).

Available option: charge in steps of 2.5% in the 4kW version (please contact us).

**Height of attachment under bench-top:** adjustable from 720 to 830mm

**Length:** 665mm

**Total height:** 1050mm (including console).

**Maximum width:** 250mm

Ref	ARG-40	ARG-20	ARG-10
Rating	4000VA	2000VA	500VA

## EXAMPLE OF USE WITH YOUR OWN TABLE



ref. AXG

Place your complete power supply unit to the right or left of your existing workbench. Bench-top attachment kit supplied.

## EXAMPLES OF COMPLETE WORKSTATION



ref. ARG

ref. AXG

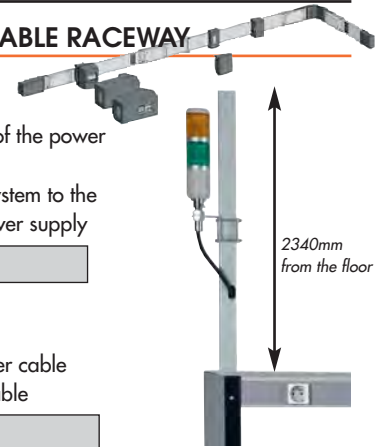
Side rails top and H leg available as options (see P08)

Side rails top and H leg available as options (see P08)



ref. AXG

## VERTICAL CABLE RACEWAY



For the wiring of the power cable from the aerial wiring system to the base of the power supply

ref. DEG-1

Model for power cable and network cable

ref. DEG-2

## 360° LIGHT SIGNAL TOWERS



Beacon with 3 light indicators: red, yellow and green

ref. VOY181



Beacon with 2 light indicators: red and green

ref. VOY121



Beacon with a red light indicator (voltage presence)

ref. VOY61

## COLOURS AVAILABLE UPON REQUEST

white - orange - red - green - blue



HARD-WEARING LED LAMPS

# MADE TO MEASURE

