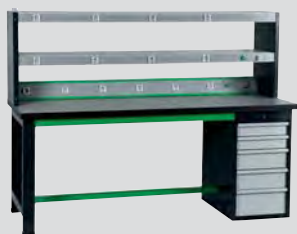


P. 06 - 44



Technical furniture

P. 004 - 017 - Heavy -duty workbenches
P. 018 - 019 - Light technical benches
P. 020 - 023 - Multi purpose benches
P. 024 - 031 - Electrotechnical benches
P. 032 - 041 - Wiring benches
P. 042 - 044 - Storage units



P. 45 - 69

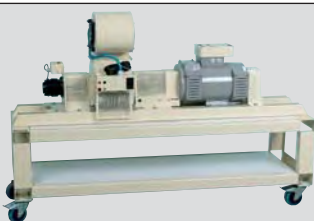


Kits & Components

P. 045 - 053 - Kits for housing units
P. 054 - 057 - Components for housing units
P. 058 - 063 - Industrial components
P. 064 - 065 - Industrial kits
P. 066 - 069 - Quick-Elec concept



P. 70 - 117



Motors & Electrotechnic

P. 071 - 082 - 90W to 3kW rotary machines
P. 083 - 085 - Displays - Acquisition
P. 086 - 094 - Complete kit of rotary machines
P. 095 - 099 - Variators
P. 100 - 107 - Power supplies & Loads
P. 108 - 109 - Dismontable motors
P. 110 - 117 - Rheostats & Transformers & Autotransformers



P. 118 - 150



Renewable energy

P. 119 - 141 - Solar energy
P. 142 - 146 - Wind turbine energy
P. 147 - 150 - Control and Energy Saving



P. 151 - 209



Training systems & Models

P. 152 - 159 - Didactical panels & Fieldbus
P. 160 - 161 - Electrical authorization & Security
P. 162 - 179 - Simulators - Models with PLC
P. 180 - 190 - Regulation
P. 191 - 196 - Energy & Engine models
P. 197 - 203 - Circuit lab
P. 204 - 209 - Test units & Sensors



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Measuring apparatus

P. 211 - 218 - Oscilloscopes & Probes
P. 219 - 221 - Power supplies
P. 222 - 223 - Generators
P. 224 - 231 - Multimeters & Clamps
P. 232 - 237 - Wattmeter - Ammeter - Voltmeter
P. 238 - 243 - Various measuring apparatus
P. 244 - 245 - Decade boxes

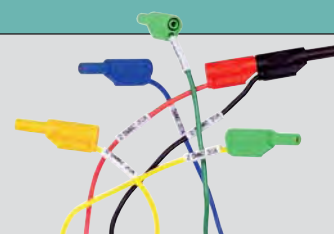


P. 246 - 256



Accessories

P. 247 P.P.E.
P. 248 - 249 Electrician tools
P. 250 - 251 Various accessories
P. 252 Sockets
P. 253 Coaxial accessories
P. 254 - 255 Leads & Racks



TECHNICAL FURNITURE

Heavy-duty workbenches

PAGES 04 - 17



Light technical benches

PAGES 18 - 19



Multi-purpose benches

PAGES 20 - 23



Electrotechnical benches

PAGES 24 - 31



Wiring benches

PAGES 32 - 41



Storage units

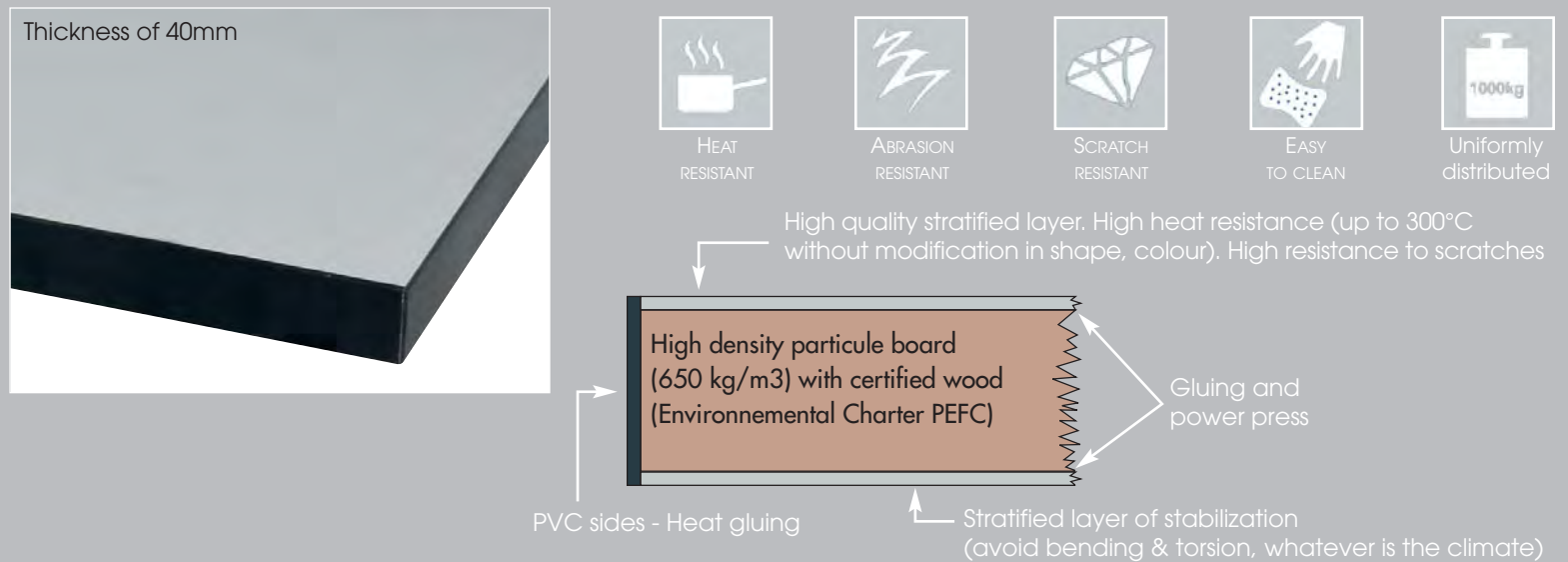
PAGES 42 - 44



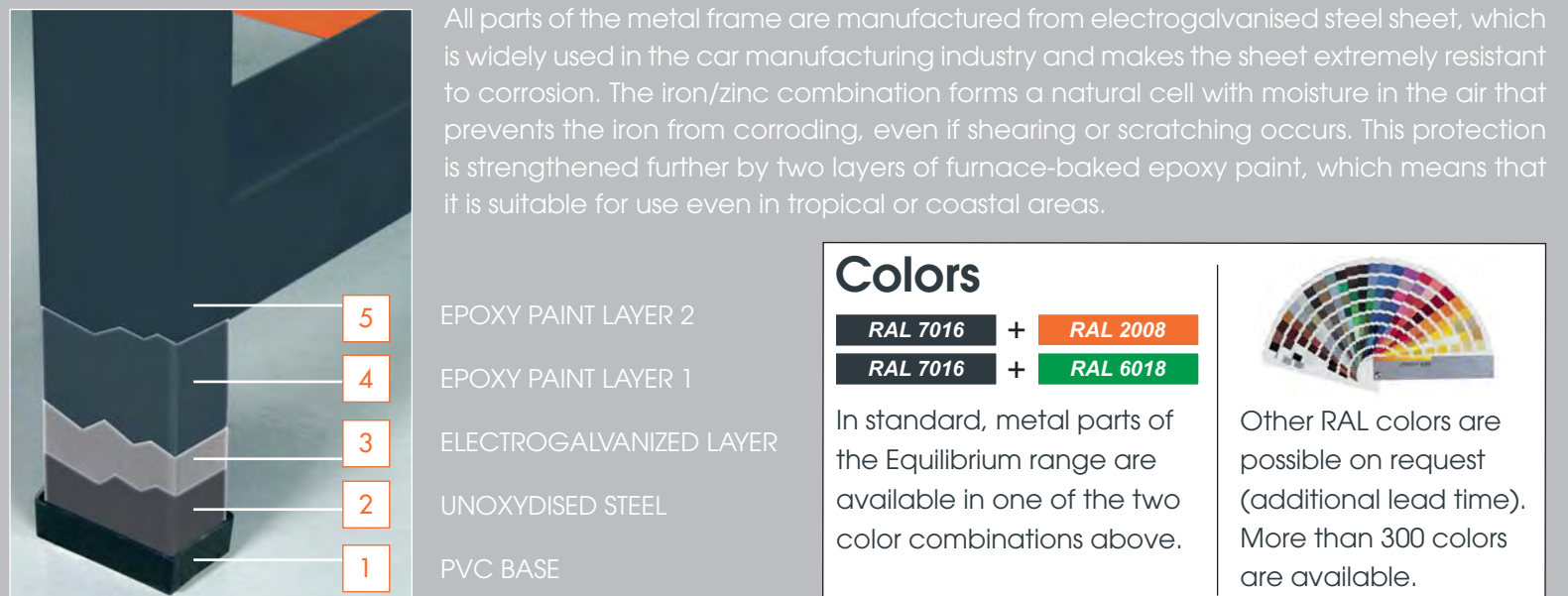
EQUILIBRIUM RANGE

New generation of technical furniture

Quality of stratified top



Quality of steel & finishes



Power sockets available for technical furniture



F TYPE SCHUKO
GERMANY



E TYPE
FRANCE



J TYPE
SWITZERLAND



G TYPE
UNITED KINGDOM



B TYPE
USA

STANDARD HEAVY-DUTY BENCHES

Basic benches

STRATIFIED TOP



High temperature stratified top (40 mm)

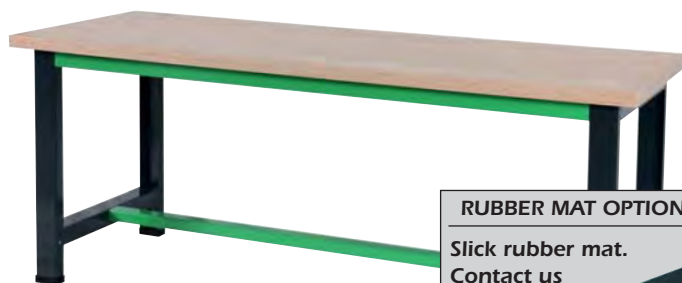
Height of the bench : 840mm (top included)

A PVC protective pad is placed underneath each foot.

Maximum load 1000kg uniformly distributed.

Dim. (mm)	Reference ●	Reference ●
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

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.

Dim. (mm)	Reference ●	Reference ●
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

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.

Dim. (mm)	Reference ●	Reference ●
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

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.

Dim. (mm)	Reference ●	Reference ●
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

BENCHES WITH STRATIFIED TOP AND 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

Dim. (mm)	Reference ●	Reference ●
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

BENCH WITH SINK (TOP DAMP-PROOF)



HIGH-TEMPERATURE LAMINATED BENCH-TOP 40mm

Workbench height: 840 mm (top included)

PVC protective pads under each foot

Maximum load 1000 kg uniformly distributed.

- 1 bench-top 1500 x 750 mm
- 1 sink 400 x 500 mm, depth 325 mm, single piece injection-moulded corrosion-resistant polypropylene.
- 1 double cold water outlet with two taps.
- With connection accessories for waste water and cold water inlet.

The sink is built-in and fully protected by a front opening cabinet.
100% watertight assembly.

ref. PEG-157

BENCHES WITH POWER CONSOLE & EMERGENCY STOP



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

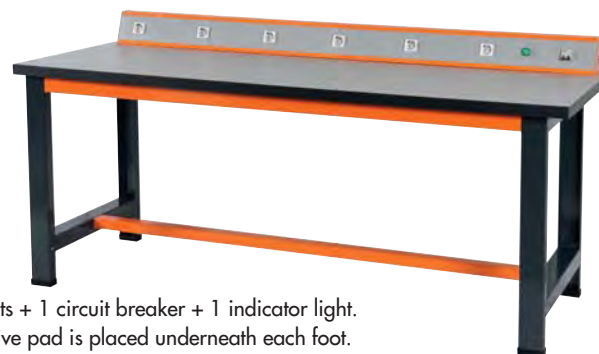
Height of the bench : 840mm (top included)

A PVC protective pad is placed underneath each foot.

Max load 1000kg uniformly distributed

Dim. (mm)	Thermal magnetic circuit breaker	
	Reference ●	Reference ●
1800x750	ESV-187	ESO-187
1800x1000	ESV-1810	ESO-1810
2000x750	ESV-207	ESO-207
2000x1000	ESV-2010	ESO-2010
Dim. (mm)	30mA residual current circuit breaker	
	Reference ●	Reference ●
1800x750	ESV-187D	ESO-187D
1800x1000	ESV-1810D	ESO-1810D
2000x750	ESV-207D	ESO-207D
2000x1000	ESV-2010D	ESO-2010D

BENCHES 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.

Dim. (cm)	Thermal magnetic circuit breaker	
	Reference ●	Reference ●
180x75	FSV-187	FSO-187
180x100	FSV-1810	FSO-1810
200x75	FSV-207	FSO-207
200x100	FSV-2010	FSO-2010
Dim. (cm)	30mA residual current circuit breaker	
	Reference ●	Reference ●
180x75	FSV-187D	FSO-187D
180x100	FSV-1810D	FSO-1810D
200x75	FSV-207D	FSO-207D
200x100	FSV-2010D	FSO-2010D

**Information : All power sockets are wired.
(Power cable of the console not supplied)**

STANDARD HEAVY-DUTY BENCHES

Benches with a shelf

BENCHES WITH A SIMPLE 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

	Thermal magnetic circuit breaker		30mA residual current circuit breaker	
Dims. (mm)	Reference ●	Reference ●	Reference ●	Reference ●
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.

	Thermal magnetic circuit breaker		30mA residual current circuit breaker	
Dims. (mm)	Reference ●	Reference ●	Reference ●	Reference ●
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 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.

	Thermal magnetic circuit breaker		30mA residual current circuit breaker	
Dims. (mm)	Reference ●	Reference ●	Reference ●	Reference ●
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. (Power cable of the console not supplied)

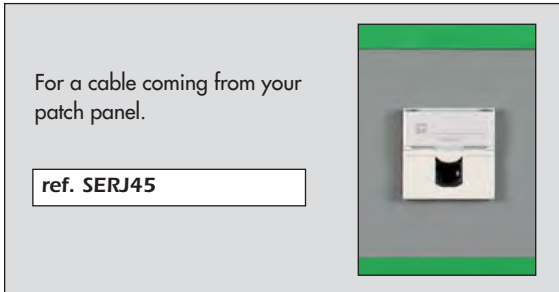
RJ45 WIRED PLUG OPTION



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.

ref. CARJ45

RJ45 PLUG (NOT WIRED)

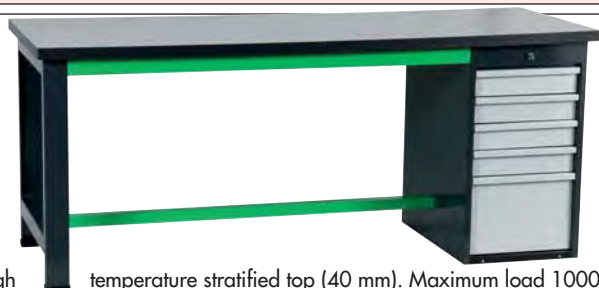


For a cable coming from your patch panel.

ref. SERJ45

Benches with leg-mounted cabinet and drawers

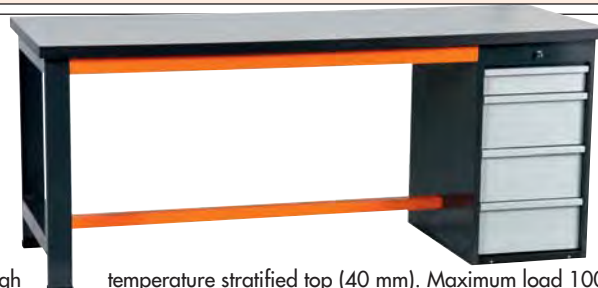
CABINET WITH 5 DRAWERS



- 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)

Dim. (mm)	Reference ●	Reference ●
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 4 DRAWERS



- High temperature stratified top (40 mm). Maximum load 1000kg
- Height of the bench: 840mm (top included)
- Cabinet with 4 drawers (1 drawer H100mm + 3 drawers H200mm)

Dim. (mm)	Reference ●	Reference ●
1800 x 750	43TV-187S	43TO-187S
1800 x 1000	43TV-1810S	43TO-1810S
2000 x 750	43TV-207S	43TO-207S
2000 x 1000	43TV-2010S	43TO-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

Dim. (mm)	Reference ●	Reference ●
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

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)

Dim. (mm)	Reference ●	Reference ●
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 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

Dim. (mm)	Reference ●	Reference ●
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

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

Dim. (mm)	Reference ●	Reference ●
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 HEAVY-DUTY BENCHES

Tool holder benches



- Reference ● BPV-1522
- Reference ● BPO-1522

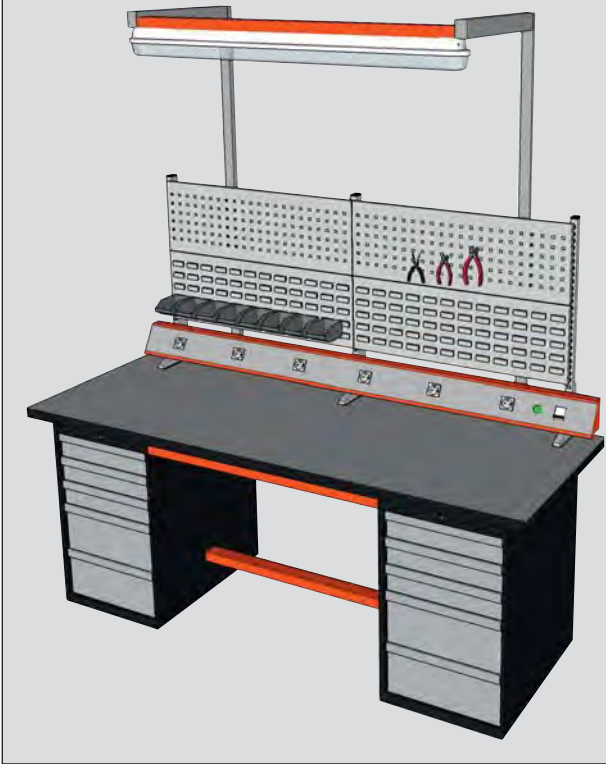
Bench with tool holder vertical panels and tray rests.
High temperature stratified top (40mm).
Height of the bench : 840mm (top included).
Top : 1500 x 750mm
Height of the vertical panels : 830mm
Total height of the bench : 1670mm
A PVC protective pad is placed underneath each foot

Description of the delivered components	Qty
1500x750mm stratified bench 1	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

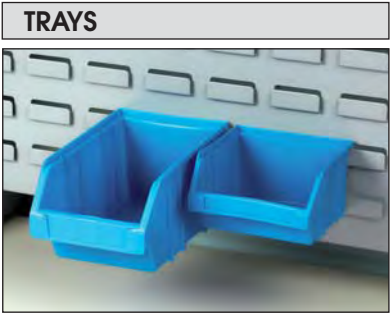
Others configurations available upon request. Contact us.

CUSTOM-MADE PRODUCTS

Examples of manufacturing
carried out according to
customers' needs



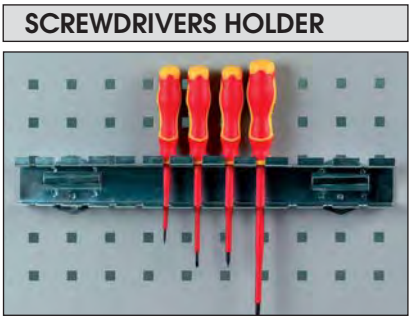
Accesories sold
separately



- ref. BAB-2 (125x105mm)
- ref. BAB-3 (125x175mm)



ref. CPT lenght 75mm



ref. PTVIS screwdrivers not supplied

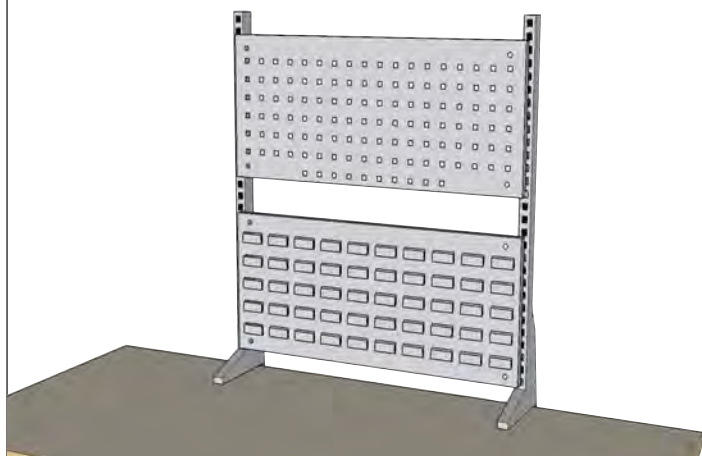
Vertical panels for workbenches

These panels are fixed to the rear of any bench-top with a thickness between 20 and 60mm. The bench-top must overhang by at least 45mm to offer good grip. The bench-top attachment requires no tools, each vertical post is fitted with a screw tightening knob. The vertical panels for tool and tray holders can be easily and quickly hooked onto the posts using hooks in steps of 25mm. Total height with respect to the bench-top: 830mm. The shelves and overhang shelves hook-on in the same way and can be attached between or in front of the panels as an additional thickness.



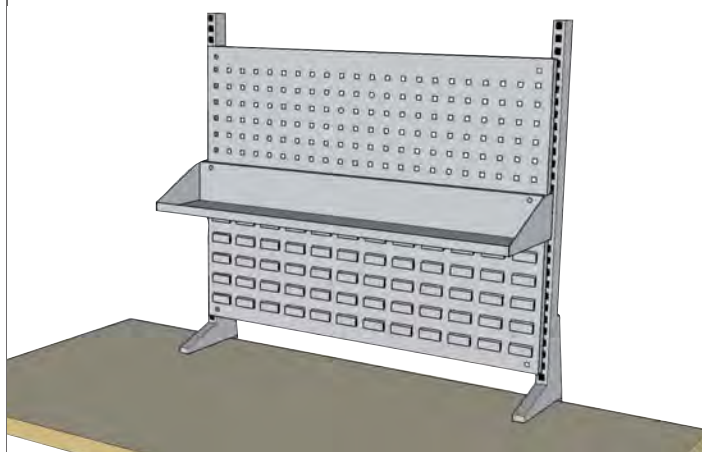
SET N°1 : LENGTH 750MM

Ref.	Panels	Post
PP01-11	1 tool holder + 1 trays holder	2
PP01-20	2 tool holders	2
PP01-02	2 trays holders	2



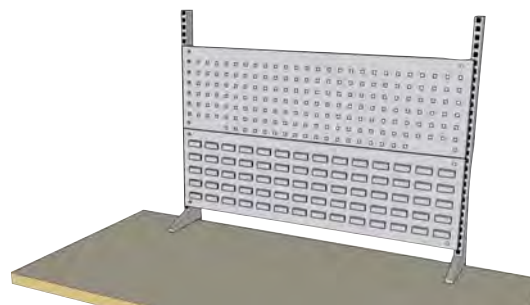
SET N°2 : LENGTH 890MM

Ref.	Panels	Post
PP02-11	1 tool holder + 1 trays holder	2
PP02-20	2 tool holders	2
PP02-02	2 trays holders	2
ETS-800	Optional shelf	



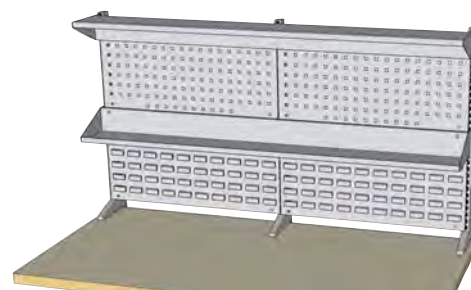
SET N°3 : LENGTH 1050MM

Ref.	Panels	Post
PP03-11	1 tool holder + 1 trays holder	2
PP03-20	2 tool holders	2
PP03-02	2 trays holders	2



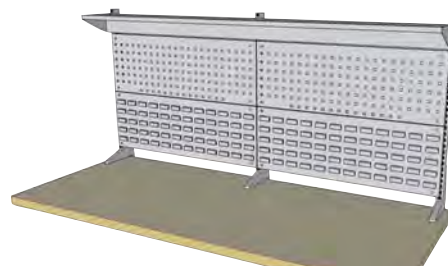
SET N°4 : LENGTH 1470MM

Ref.	Panels	Post
PP04-22	2 tool holder + 1 trays holder	3
PP04-40	4 tool holders	3
PP04-04	4 trays holders	3
ETS-1400	Optional shelf	
ETD-1400	Optional cap	
CONTACT US	Optional light	



SET N°5 : LENGTH 1750MM


Ref.	Panels	Post
PP05-22	2 tool holder + 1 trays holder	3
PP05-40	4 tool holders	3
PP05-04	4 trays holders	3
ETD-1700	Optional shelf	
CONTACT US	Optional light	



STANDARD HEAVY-DUTY BENCHES

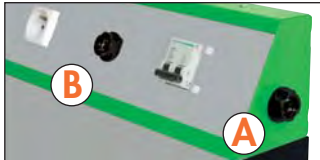
Choose and configure your own workbench

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 16-17



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

Without sockets - Please contact us.

650

ref. L2G
Thermal magnetic circuit breaker

ref. L2G-D
30mA residual current circuit breaker

Without sockets - Please contact us.

650

ref. TBG
Thermal magnetic circuit breaker

ref. TBG-D
30mA residual current circuit breaker

Without sockets - Please contact us.

400

ref. TBG-N

400

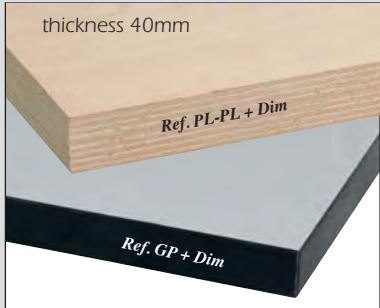
LIGHTING OPTION

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

ref. ET-ECL




HIGH TEMPERATURE STRATIFIED* TOP AND WOODEN TOP




thickness 40mm
Ref. PL-PL + Dim
Ref. GP + Dim

WIDTH (mm)	DEPTH 750mm	DEPTH 1000mm
1200 STRAT	Ref. GP127	Ref. GP1210
1200 WOOD	Ref. PL-PL-120x75	Ref. PL-PL-120x100
1500 STRAT	Ref. GP157	Ref. GP1510
1500 WOOD	Ref. PL-PL-150x75	Ref. PL-PL-150x100
1800 STRAT	Ref. GP187	Ref. GP1810
1800 WOOD	Ref. PL-PL-180x75	Ref. PL-PL-180x100
2000 STRAT	Ref. GP207	Ref. GP2010
2000 WOOD	Ref. PL-PL-200x75	Ref. PL-PL-200x100


MAIN FEATURES
OF HIGH TEMPERATURE
STRATIFIED TOP




Uniformly distributed




Heat resistant



Abrasion resistant




Scratch resistant




Easy to clean

MAIN FEATURES
OF WOODEN TOP



Uniformly distributed



Shock resistant

10

CE PRODUCTS 2 YEARS GUARANTEE

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



SINGLE LEGS

Model for top in 750mm depth

ref. PHG-75

Model for top in 1000mm depth

ref. PHG-100

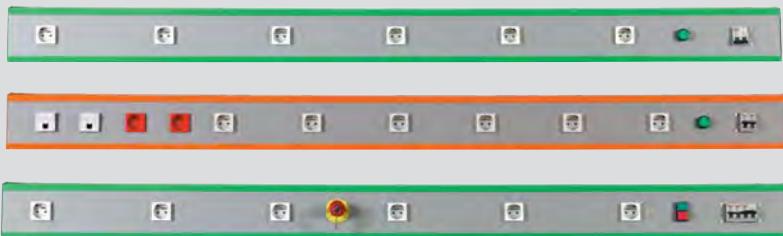


Special angle model to join 2 tops at 90°. Consult us.

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 14 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 12 FOR MORE INFORMATION



HANGING DRAWERS

- Hanging drawers, 1 to 4 drawers
 - For top in depth 750 mm or 1000 mm
- SEE PAGE 13 FOR MORE INFORMATION



LAYOUT OF DRAWERS

- 3 different types of compartments
 - Suitable for drawers of leg-mounted cabinets or hanging drawers
- SEE PAGE 13 FOR MORE INFORMATION



STANDARD HEAVY-DUTY 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)

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

3 drawers H100mm

ref. TIG-30



1 drawer H100mm
1 drawer H200mm

ref. TIG-32



1 drawer H300mm.
*Drawers with a height of 300 mm are
suitable for standard hanging folders.*

ref. TIG-33



For top in depth 750 and 1000mm.
Height: 100mm / Width: 400mm.
With lock and key.

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

4 drawers H100mm

ref. TIG-40



2 drawers H100mm
1 drawer H200mm

ref. TIG-41



2 drawers H200mm

ref. TIG-42



1 drawer H100mm
1 drawer H300mm
*Drawers with a height of 300 mm are
suitable for standard hanging folders.*

ref. TIG-43



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 tidies 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

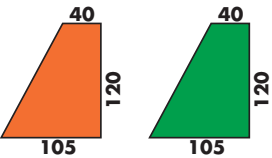
POWER CONSOLES

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.

Information : All power sockets are wired. (Power cable of the console not supplied)



Reference ●	Reference ●	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



Reference ●	Reference ●	Protection type
PAV-20	PAO-20	Thermal magnetic circuit breaker
PAV-20D	PAO-20D	30mA Residual current circuit breaker

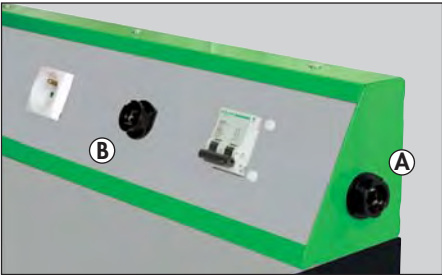
- 6 power sockets 230V (2P+E)
- A circuit breaker (two possible choices)
- A hardwearing Ø30 LED lamp indicating that sockets are switched on
- A key-operated emergency stop button which activates an undervoltage trigger, thereby ensuring positive safety



Reference ●	Reference ●	Protection type
MAV-20	MAO-20	Thermal magnetic circuit breaker
MAV-20D	MAO-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



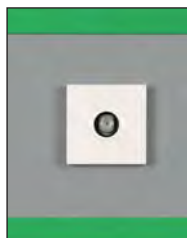
Combination of 2 RJ45 connectors connected together in the console. The side connector **A** is used to connect the network input, the front connector **B** is for the user's connection.

ref. CARJ45



All these elements can be added to the power consoles.

SATELLITE PLUG



Réf. SE-SAT

«F» type, not wired.

TV PLUG



Réf. SE-TEL

Ø9,52mm male, not wired.

INVERTER PLUG



Réf. SE-UPS

Not wired.

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/3.4A - 15V/3.4A

230V multi sockets unit



Can only be fixed with plastic screws
(plastic housing)

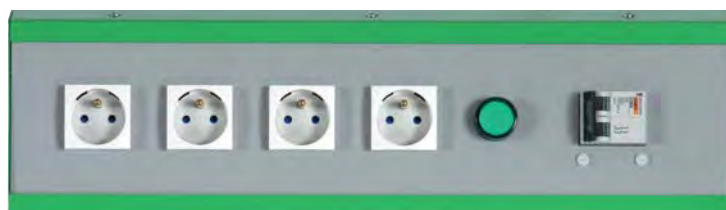
ref. LGS-8

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

ref. LGS-41

Unit of 4 power sockets
230V (2P+E) - 3860W.
Dim: 295 x 85 x 55mm

Short power console 500mm



Reference ● VXV-1

Reference ● VXO-1

Thermal magnetic circuit breaker

Reference ● VXV-2

Reference ● 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 supply power cable in 3 strands of 2.5mm²

COMPUTER HEAVY-DUTY WORKBENCHES

Computer items for workbenches



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



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.

SUPPORT KEYBOARD/MOUSE



Instantly clings to the side of our CPU holders references IFG and IFG-ECO-MINI.
Installation without tools or screws.

ref. IFG-CLA

SHELF



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

ref. IFG-ETG

CPU TOWER HOLDER



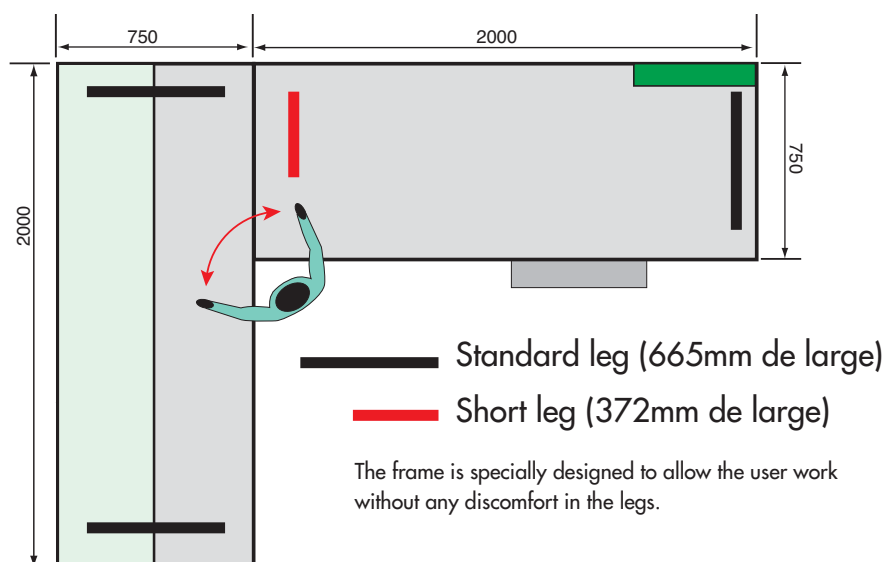
Holder is screwed under the bench. Users have easy access to cable connections and drives. Sturdy and economical, this device ensures that the CPU tower is stored tidily and protected against theft.

- 45 x 45mm wire mesh
- 50mm front locking bar
- Attached with lag screws (supplied)
- EPOXY paintwork. Steel sheet base plate.



Ref.	Total height interior	Width interior	Depth interior
IFG-ECO	500mm	245mm	500mm
IFG-MINI	400mm	195mm	400mm

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.

Reference ● ref. TXV-40

Reference ● ref. TXO-40

Computer hardware not supplied

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. **Base suitable for rotation.**
- 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

CUSTOM-MADE PRODUCTS

Examples of manufacturing carried out according to customers' needs



LIGHT TECHNICAL BENCHES

Adjustable work tops, Seated / Standing

SINGLE AND TWO-SIDED TOOL-HOLDER WORKSTATIONS

Laminated top 22mm thick.
Top position adjustable.
Max height 920mm (top included)
Independent adjustment of each top in the two-sided versions.
Max load 200kg uniformly distributed.
Matt anodized aluminium stand and structure. Lasting protection against scratching and corrosion.

Tool-holder frame equipped with:

- 20 plastic hooks for screwdrivers
- 2 tool-holder hooks
- 1 tool-holder support 240 x 80mm
- 1 magnetic support
- 1 universal support Ø80mm
- 1 document holder (A4 size)
- 8 double-sided places
- 1 strip with 5 2P+E outlets and switch



SINGLE MODELS

Width / Depth / Height	Ref.
1200 x 910 x 2000mm	PTE1-1200
1500 x 910 x 2000mm	PTE1-1500
2000 x 910 x 2000mm	PTE1-1800



TWO-SIDED MODELS

Width / Depth / Height	Ref.
1200 x 1660 x 2000mm	PTE2-1200
1500 x 1660 x 2000mm	PTE2-1500
2000 x 1660 x 2000mm	PTE2-1800

SINGLE WORKSTATIONS



Laminated top 22mm thick.
Workbench height: Adjustable. Maximum height 920mm (top included).
Matt anodized aluminium stand.
Lasting protection against scratching and corrosion.
Maximum load 200 kg uniformly distributed.

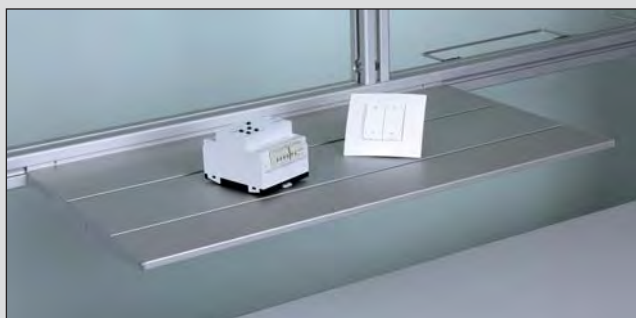
Dimensions (mm)	Ref.
1200 x 750	PTE3-1200
1500 x 750	PTE3-1500
1800 x 750	PTE3-1800

TWO-SIDED WORKSTATIONS



Laminated top 22mm thick.
Workbench height: Adjustable. Maximum height 920mm (top included).
Independent adjustment of each top.
Matt anodized aluminium stand.
Lasting protection against scratching and corrosion.
Maximum load 200 kg uniformly distributed.

Dimensions (mm)	Ref.
1200 x 1660	PTE4-1200
1500 x 1660	PTE4-1500
1800 x 1660	PTE4-1800


NEW
SHELF OPTION

Sliding metal shelf for full support width.
Dimensions 600 x 320mm.

ref. PTE-TAB

KEYBOARD/MOUSE SUPPORT OPTION

Sliding metal shelf lockable in pulled out position.
Folding support for mouse.
Width: 520mm.
Depth: 300mm (wrist rest included).

ref. PTE-CLAV

CENTRAL PROCESSING UNIT SUPPORT OPTION

Support screws under the table. Sliding system for taking central processing units of all sizes.
Rotary system for pivoting the central processing unit.

ref. PTE-UC

Workbenches**SINGLE WORKBENCHES**

Innovative composite material stand (70% wood fibre).
It is neutral to magnetic fields and electrically insulating.
High-temperature laminated top, 22mm thick.
Overall height (top included): 742mm.
Colour: 2 shades of grey.
Max load: 200kg.

Dimensions (mm)	Ref.
1500 x 750	TLG-1500
1800 x 750	TLG-1800
2000 x 750	TLG-2000

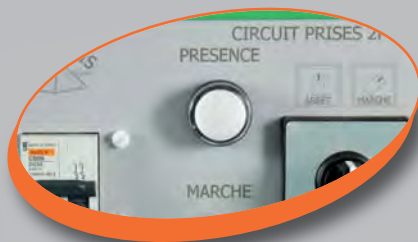
SINGLE WORKBENCHES WITH ELECTRIC STRIP

Innovative composite material stand (70% wood fibre).
It is neutral to magnetic fields and electrically insulating.
High-temperature laminated bench-top 22mm thick.
Overall height (top included): 742mm
Colour: 2 shades of grey
Max load: 200 kg
Electric strip equipped with 4 2P+E outlets
with indicator light and circuit-breaker.

Dimensions (mm)	Reference ●	Reference ●
1500 x 750	TLV-1500	TLO-1500
1800 x 750	TLV-1800	TLO-1800
2000 x 750	TLV-2000	TLO-2000

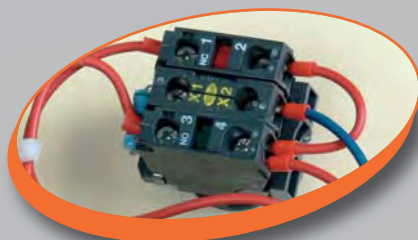
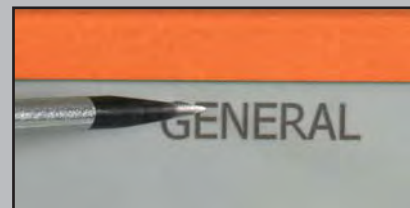


Electrotechnical workstations our quality commitment



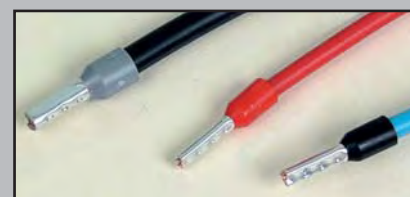
Engraving on the front in the part

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



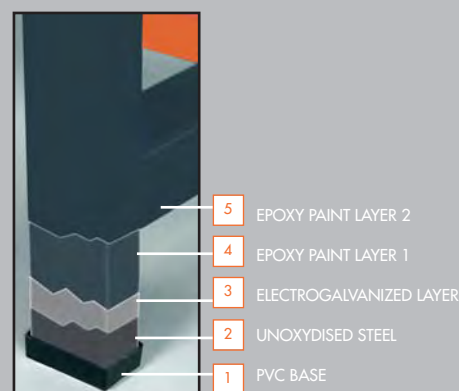
Control console free of metal components

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.



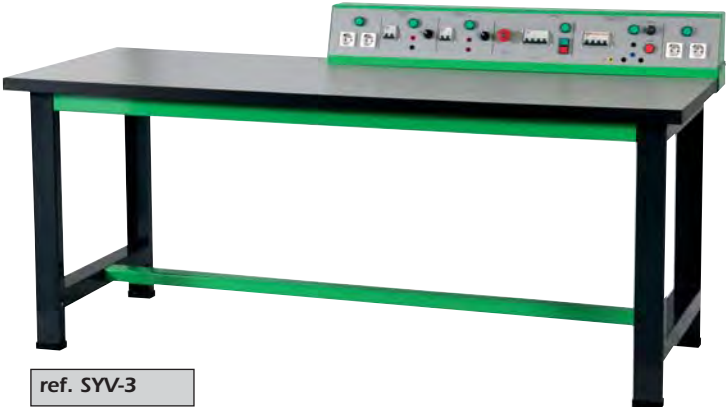
Epoxy paint & electrogalvanized steel

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.




Standards multi purpose workstations

hard-wearing led indicator light




ref. SYV-3



ref. SYO-1

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.

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



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

ANTI-VANDALISM COVER WITH KEY



A



B



C

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. VSG-12

CUSTOM-MADE PRODUCTS

Examples of manufacturing carried out according to customers' needs



MULTI PURPOSE WORKSTATIONS

Configure your own power console

Select first the bare power console, then select the obligatory main module (see opposite) and finally select the electrical modules and options.

Dimensions available: 1200 - 1500 - 1800 - 2000mm.



Ref. ● PUV-32

Ref. ● PUO-32

3-PHASE MODULE ON TERMINALS



3-phase supply module 11kW – fixed
3x400V+N
On-Off key control

ref. SE5TR

3-PHASE MODULE ON SOCKET



3-phase supply module on
hypra socket
16A 3P+N+T.
On-Off key control

ref. SE5PCTR

3-PHASE HYPRASOCKET MODULE



Mounted in parallel on 3-phase
supply with output terminals or
socket (only available with option
SE5TR & SE5PCTR)

ref. HP4

DC MODULE -15VDC +15VDC 3A



DC fixed supply with 2 outputs
+15V/3.4A -15V/3.4A

ref. AD15I

3-PHASE MODULE 0-430V



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

ref. SE6VA

AC SUPPLY MODULE 24V / 5A



Module 24V/5A insulated
from mains

ref. SE3BT

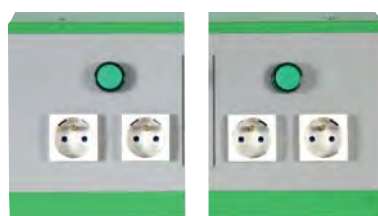
DC VARIABLE SUPPLY



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

ref. R3030I

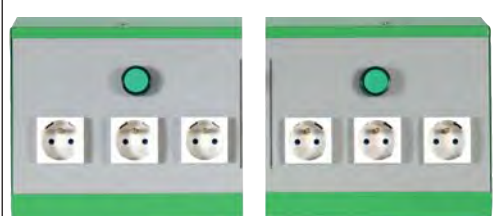
MAINS SOCKETS MODULE (2 X 2)



ref. SE4PC

Module with 2 x 2 power sockets 230V + lamp.

MAINS SOCKETS MODULE (2 X 3)



ref. SE6PC

Module with 2 x 3 power sockets 230V + lamp.

MEASURED POWER SOCKET MODULE



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

ref. SEPCW

INVERTER SOCKET



Not wired.
For U.P.S.

Réf. SE-UPS

hard-wearing led indicator light

OBLIGATORY MAIN MODULES

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

SE1MA without on/off key control

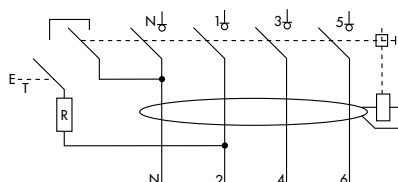
 ref. SE1MA
for 3-phase mains supply

 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

RESIDUAL CURRENT CIRCUIT BREAKER


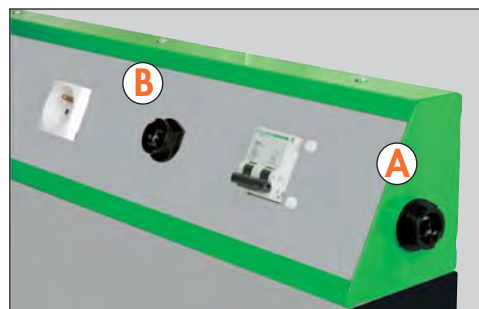
ref. DIF30-4S A type (3-phase workstation)

ref. DIF30-2C A type (single-phase workstation)

ref. DIF30-2SAC AC type (3-phase workstation)

ref. DIF30-4SAC AC type (single-phase workstation)

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

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.

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.**

 ref. VSG-12
(1200mm)

 ref. VSG-20
(2000mm)


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

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

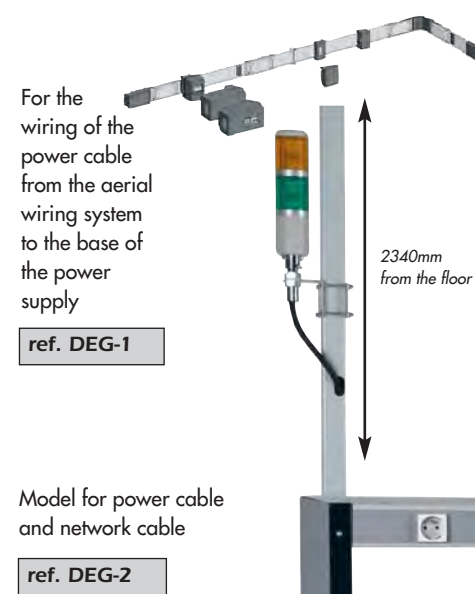


Beacon with a red light indicator (voltage presence) Ø60mm

ref. VOY61

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


HARD-WEARING LED LAMPS

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

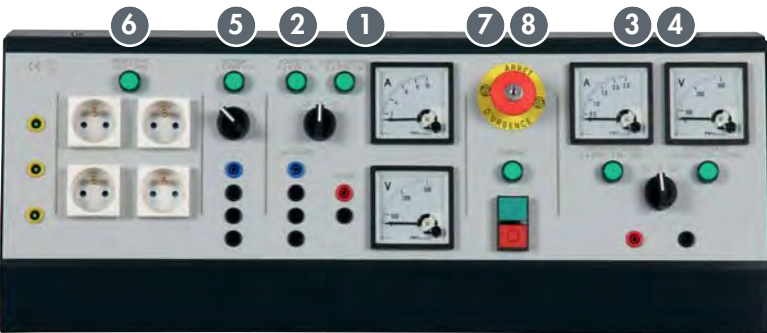
ELECTROTECHNICAL BENCHES

Stand alone DC & AC power supply

hard-wearing led indicator light



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
■ ■ 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

OPTION RESIDUAL CURRENT CIRCUIT BREAKER

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

ref. DIF30-4L A Type

ref. DIF30-4LAC AC Type

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 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.

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.

Auxiliary supplies 3 & 4 can't work simultaneously

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), protected, with indicator lights.

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

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.

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

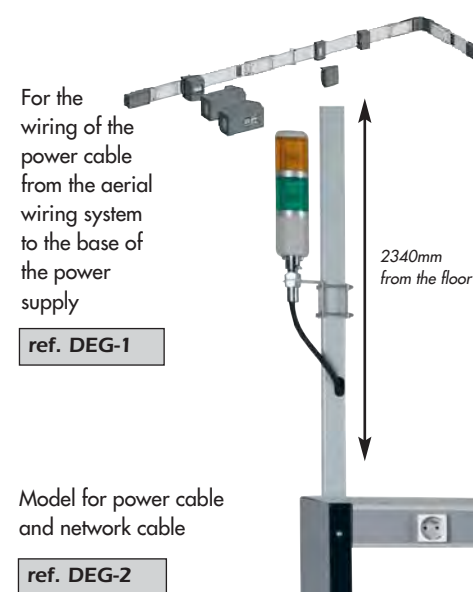
Length: 665mm

Total height: 1050mm (including console).

Maximum width: 250mm

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

VERTICAL CABLE RACEWAY



EXAMPLE OF USE WITH YOUR OWN TABLE



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. AXG

Side rails top and H leg available as options (see P14)

Side rails top and H leg available as options (see P14)



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

ELECTROTECHNICAL BENCHES

Electrotechnical benches



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

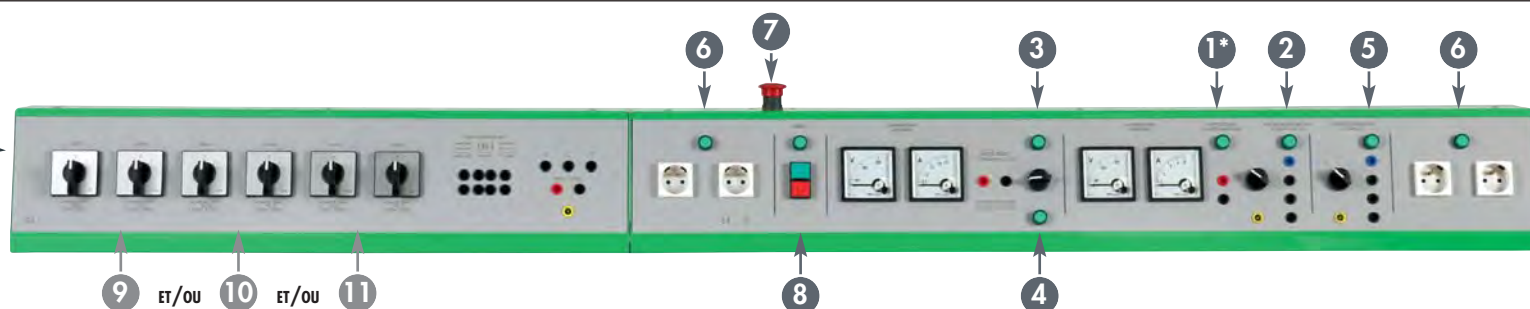


4000VA		ELECTROTECHNICAL BENCHES OF 4KVA RATING								
Ref.	Ref.	DC SUPPLY 0-270V 16A	3-PHASE 0-450V 8A	AUXILIARY 0-250VDC 2,5A	AUXILIARY 0-250VAC 2,5A	3-PHASE 3x400VAC 4 TERMINALS	4 POWER SOCKETS 230V 2P + E	RESISTIVE LOAD 4000W	INDUCTIVE LOAD 4000VAR	CAPACITIVE LOAD 4000VAR
		<div><div></div><div></div></div>	<div><div></div></div>	<div><div></div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
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			
BXO-40A	BXV-40A		x	x	x	x	x	x	x	x
BXO-40B	BXV-40B		x	x	x	x	x	x	x	
BXO-40C	BXV-40C		x	x	x	x	x	x		
BXO-40D	BXV-40D		x	x	x	x	x			

2000VA		ELECTROTECHNICAL BENCHES OF 2KVA RATING								
Ref.	Ref.	DC SUPPLY 0-270V 8A	3-PHASE 0-430V 5A	AUXILIARY 0-250VDC 2,5A	AUXILIARY 0-250VAC 2,5A	3-PHASE 3x400VAC 4 BORNES	4 POWER SOCKETS 230V 2P + E	RESISTIVE LOAD 2000W	INDUCTIVE LOAD 2000VAR	CAPACITIVE LOAD 2000VAR
		<div><div></div><div></div></div>	<div><div></div></div>	<div><div></div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
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			
BXO-20A	BXV-20A		x	x	x	x	x	x	x	x
BXO-20B	BXV-20B		x	x	x	x	x	x	x	
BXO-20C	BXV-20C		x	x	x	x	x	x		
BXO-20D	BXV-20D		x	x	x	x	x			

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

hard-wearing led indicator light



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. * except BXo & BXV

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 and 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. Double alternating rectification, the ripple factor varies with the loads.

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.

Main supplies 3 and 4 can't work simultaneously

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), protected, with indicator lights.

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.

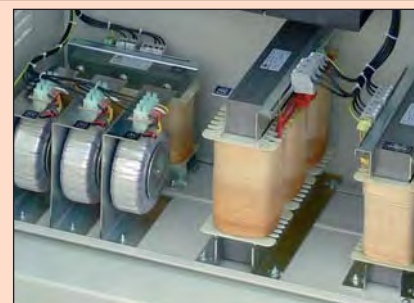
10 CAPACITIVE LOAD

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, B and C versions only)

11 INDUCTIVE LOAD

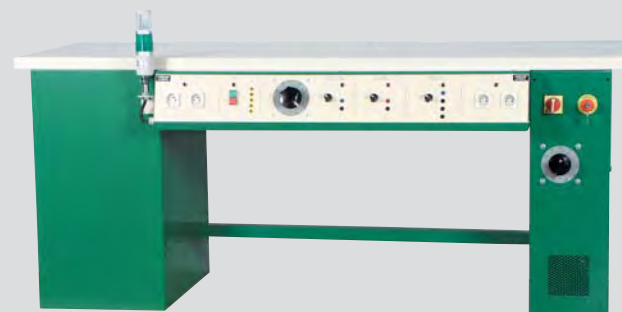
3 moveable cores moved by a control wheel and an endless screw, altering the inductance of the 3 windings allows regulation of power factor from 0.9 to 0.1 in single- or 3-phase. The links and input connectors are mounted on the console and easily accessible. It may be used in single-phase DC 240V, 3-phase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



CUSTOM-MADE PRODUCTS

Examples of manufacturing carried out according to customers' needs



ELECTROTECHNICAL BENCHES

Options for electrotechnical benches

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



DC SUPPLY



Unit of 2 fixed DC
power supplies
+15V/3.4A -15V/3.4A

ref. AD151

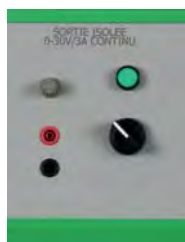
3-PHASE 24VAC SUPPLY



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

DC VARIABLE SUPPLY



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

ref. R3030I

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.**



ref. VSG-12
(1200mm)

ref. VSG-20
(2000mm)



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

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

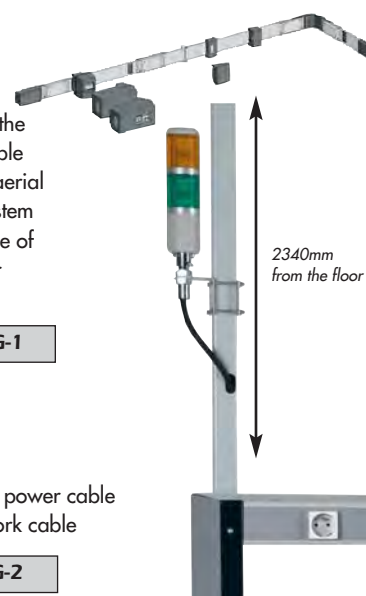
VERTICAL CABLE RACEWAY

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

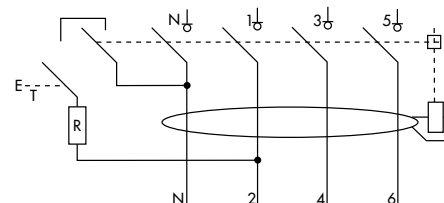


OPTION RESIDUAL CURRENT CIRCUIT BREAKER

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

ref. DIF30-4L A Type

ref. DIF30-4LAC AC Type



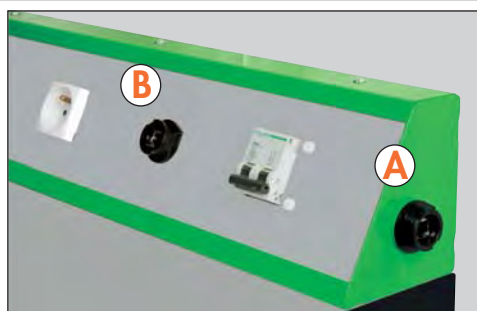
CANALIS CONNECTOR

Connector for descent of KNA Canalis,
with space for modular protections.
(Protections and cable not supplied).

ref. KNB25CF5



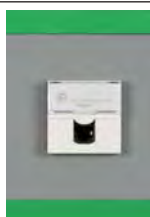
RJ45 WIRED PLUG



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.

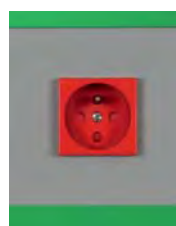
RJ45 PLUG (NOT WIRED)



ref. SERJ45

RJ45 socket installed but not connected.

INVERTER SOCKET



Not wired.
For U.P.S.

Réf. SE-UPS

3-PHASE HYPRA SOCKET (400VAC)



Fitted in parallel on the three-phase mains output terminals

ref. HP4

OVERSPEED MONITORING

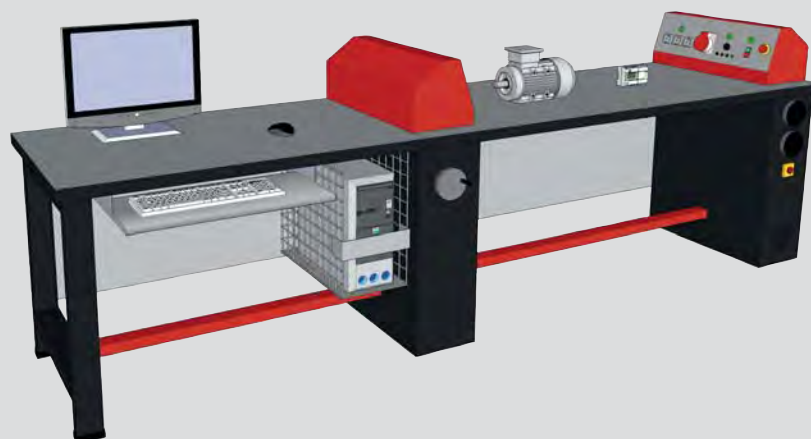
Overspeed monitoring option for DC motors. This system, which can be overridden, enables the operator to monitor the minimum auxiliary power supply current in the event of cutting off the main DC power supply.



ref. CTRL-E

CUSTOM-MADE PRODUCTS

Examples of manufacturing carried out according to customers' needs



ELECTROTECHNICAL BENCHES

Tailor-made autonomous electro-technical workstations

These tailor-made solutions allow you to create specific workstations and remain within market standards. **Enjoy the unlimited manufacturing flexibility of our workshops to create your ideal workstations!**

First, select the base mechanical solution from 8 possible choices:

- choice of 2 top depths (fixed width).
- choice of 2 colour combinations.
- choice of 2 console sizes.

A 1200mm console is better for computer installation.



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

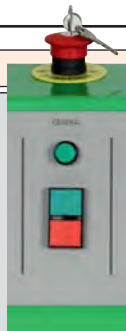
MANDATORY MAIN MODULE

This module provides for the positive safety of all the additional modules. It consists of:

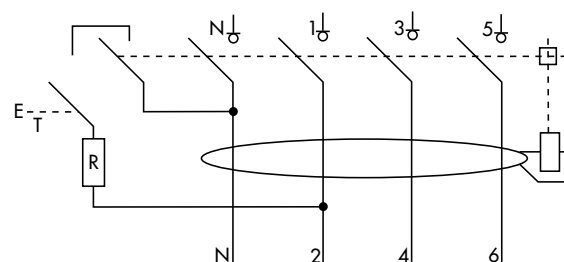
- start/stop button.
- emergency stop button with key.
- main switch (positioned on the front of the technical leg)

This module provides overall protection and switching up to 11kW.

ref. BCMA



OPTION RESIDUAL CURRENT CIRCUIT BREAKER



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

ref. DIF30-4L A Type

ref. DIF30-4LAC AC Type

VARIABLE THREE-PHASE MODULE

The variable autotransformer accessible on the front of the technical leg means this variable three-phase module is available with a choice of 2 powers.

Signalling of the 'on' position by LEDs with protection and control separated from the other sources.

Starting only possible with zero voltage.



A voltmeter displays one of the single voltages, an ammeter displays the current in a phase.

This module is compatible with the DC module BCDC2 or 4 but the two sources do not operate at the same time.

ref. BC37VA for one output 0-430V / 5A (3,7kW)

ref. BC62VA for one output 0-450V / 8A (6,2 kW)

VARIABLE DC POWER MODULE

The variable autotransformer accessible on the front of the technical leg means this variable three-phase module is available with a choice of 2 powers.

Signalling of the 'on' position by LEDs with protection and control separated from the other sources.

Starting only possible with zero voltage.

Output insulated from the mains, in compliance with the standards, with transformer NFC 61558.

A voltmeter and an ammeter display the electrical values.

This module requires the presence of the variable three-phase module.

The two sources do not operate at the same time.



ref. BCDC2 for one output 0-270V / 8A (2kW)

ref. BCDC4 for one output 0-270V / 16A (4 kW)

MAINS SOCKETS MODULE (2 X 2)

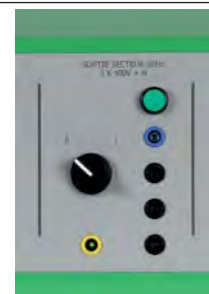


ref. BC4PC

FIX THREE-PHASE MODULE ON TERMINALS

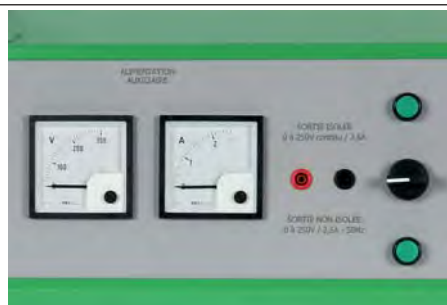
Mains distribution with protection and control separated from the other sources. Signalling of the 'on' position by LEDs.

ref. BC5TR



Reference ●		BCO-7512		BCO-1012		BCO-7520		BCO-1020
Reference ●	BCV-7512		BCV-1012		BCV-7520		BCV-1020	
Top 2000 x 750mm	X	X			X	X		
Top 2000 x 1000mm			X	X			X	X
Grey & Green	X		X		X		X	
Grey & orange		X		X		X		X
1200mm Console	X	X	X	X				
2000mm Console					X	X	X	X

AUXILIARY SOURCES MODULE 2.5A



0-250VAC or VDC variable by single-phase autotransformer, with isolating transformer, to standard NFC 61558 for DC insulation. The assembly is protected against overloads and short circuits. Viewing by voltmeter and ammeter.

A button provides Start/Stop switching. An LED indicator signals powering up. Double alternating rectification, the ripple factor of which varies with the load.

The two sources do not operate at the same time.

ref. BC600

CANALIS CONNECTOR



Connector for descent of KNA Canalis, with space for modular protections. (Protections and cable not supplied).

ref. KNB25CF5

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.**



ref. VSG-12
(1200mm)

ref. VSG-20
(2000mm)



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

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

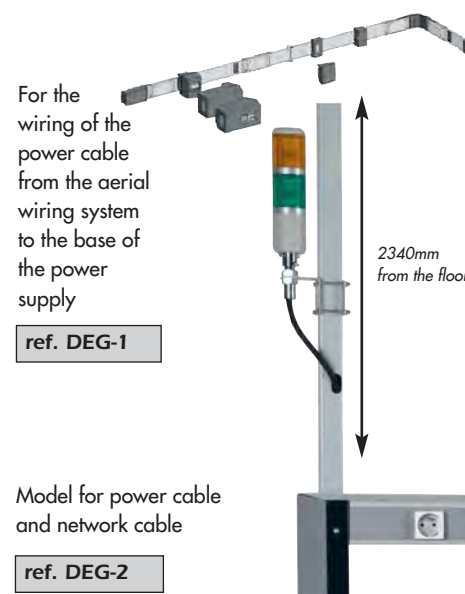
ref. VOY61

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



HARD-WEARING LED LAMPS

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