

ELECTROTECHNICAL BENCHES CONTROLLED BY TOUCHSCREEN WITH ACQUISITION



Photo of a standalone unit without load, type BYV\*\*-D



COLORS INFO

Legs (RAL7016). Color of crossbars and power console at your choice. See table .

Next-generation workstation with integrated touchscreen control panel that centralizes the bench's various functions (activating or deactivating outputs, viewing real-time electrical measurement values (voltage, current, power, etc.), and exporting this data in CSV format for use in spreadsheet software). Depending on the version, it consists of one or two lockable electrical cabinets connected by three crossbars, one of which is a footrest, a standard 2000 x 750 mm laminated work surface, and a power distribution panel equipped with safety terminals for all power sources and loads.

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

1 TOUCH SCREEN

It allows the activation of the following outputs: (2) MAIN DC, (3) MAIN THREE-PHASE, (4) AUXILIARY DC, (5) AUXILIARY SINGLE-PHASE, (6) MAINS THREE-PHASE. It displays the electrical characteristics: voltage, current, and power in DC mode, and voltage, current, active power, reactive power, apparent power, and power factor (cos phi) in AC mode. A USB port allows the export of the various measurement points in CSV format to a digital storage device for use on a computer.

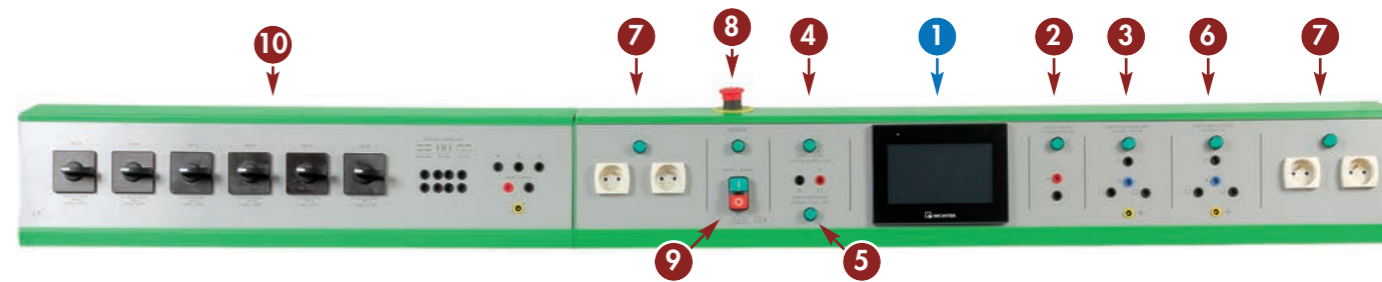


Main page  
Allows you to activate the various controlled outputs. The live voltages of the AC outputs are displayed in blue and the DC outputs in green, allowing for quick and easy identification. The status of the three-phase mains output is displayed on the screen in red.



Measurement page  
This adaptive screen displays data based on active outputs

Calibration page  
Allows, after access control, the customization of the values on the measurement page



4000VA					ELECTROTECHNICAL BENCHES OF 4KVA RATING						
Réf.	Réf.	Réf.	Réf.	Réf.	DC SUPPLY	3-PHASE	AUXILIARY	AUXILIARY	3-PHASE	4 POWER	LOAD
RAL	RAL	RAL	RAL	RAL	0-270V	0-450V	0-250VDC	0-250VAC	3x400VAC	SOCKETS	
2008	6018	5017	7035	7016	16A ● ●	8A ●	2.5A ● ●	2.5A ●	4 TERMINALS ●	230V 2P + E ●	
BYO-40C	BYV-40C	BYB-40C	BYG-40C	BYA-40C	x	x	x	x	x	x	R
BYO-40D	BYV-40D	BYB-40D	BYG-40D	BYA-40D	x	x	x	x	x	x	/

2000VA					ELECTROTECHNICAL BENCHES OF 2KVA RATING						
Réf.	Réf.	Réf.	Réf.	Réf.	DC SUPPLY	3-PHASE	AUXILIARY	AUXILIARY	3-PHASE	4 POWER	LOAD
RAL	RAL	RAL	RAL	RAL	0-270V	0-430V	0-250VDC	0-250VAC	3x400VAC	SOCKETS	
2008	6018	5017	7035	7016	8A ● ●	5A ●	2,5A ● ●	2,5A ●	4 TERMINALS ●	230V 2P + E ●	
BYO-20C	BYV-20C	BYB-20C	BYG-20C	BYA-20C	x	x	x	x	x	x	R
BYO-20D	BYV-20D	BYB-20D	BYG-20D	BYA-20D	x	x	x	x	x	x	/

● HARD-WEARING LAMP ● INSULATED OUTPUT ● LOADS INSIDE THE LEFT-HAND CABINET

2 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.

3 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

4 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.

5 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. Auxiliaries supplies 4 and 5 can't work simultaneously

6 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

7 4 POWER SOCKETS 2P + E

230V sockets (2 on either side), protected, with indicator lights.

8 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.

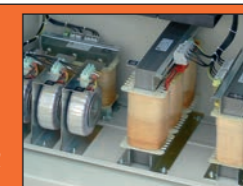
9 PUSH BUTTON

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

10 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.

FOR YOUR SAFETY THE DC OUTPUTS ARE SEPARATED FROM THE MAINS BY SAFETY ISOLATING TRANSFORMER



OPTIONS FOR ELECTROTECHNICAL BENCHES

BENCH TOP IN 1000mm DEPTH

Dimensions 2000 x 1000 mm  
Usable space 2000 x 850 mm

ref. AUG1000-ST

LOW SHELF

1 lowered level height 400mm  
Depth 400mm

ref. TBG-200



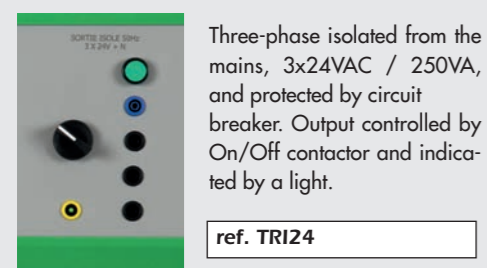
FIXED CONTINUOUS POWER SUPPLY



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

ref. AD15I

24 VOLT THREE-PHASE



Three-phase isolated from the mains, 3x24VAC / 250VA, and protected by circuit breaker. Output controlled by On/Off contactor and indicated by a light.

ref. TR124

DC VARIABLE SUPPLY



Adjustable voltage  
0-30V DC/5A

ref. R3005

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 and 2000mm.



ref. VSG-12  
for 1200mm console

ref. VSG-20  
for 2000mm console



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

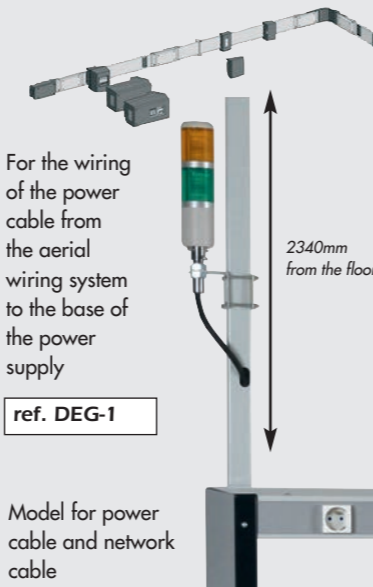
ref. VOY61

COLORS 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

2340mm  
from the floor

ref. DEG-1

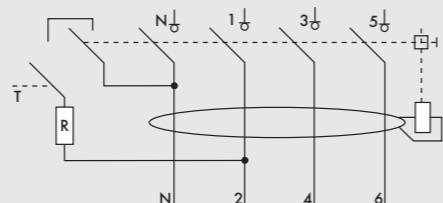
Model for power cable and network cable

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. DIF30-4VJLV A Type



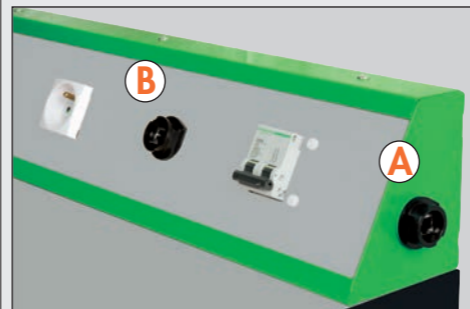
CANALIS CONNECTOR

Three-phase connector for descent of KNA channels, with location for modular protections. (Protections and cable not supplied).

ref. KNB25CF5



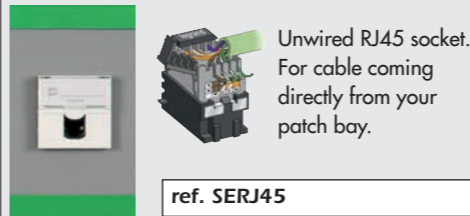
RJ45 CABLED SOCKET MODULE



ref. CARJ45

Combination of 2 RJ45 sockets connected together in the console. The side socket A allows the network input, the front socket B allows the user connection.

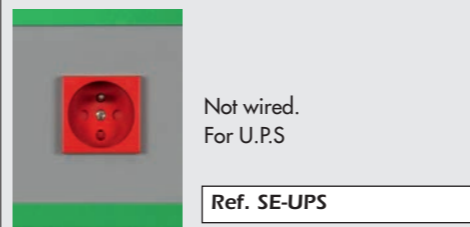
RJ45 SOCKET MODULE



Unwired RJ45 socket. For cable coming directly from your patch bay.

ref. SERJ45

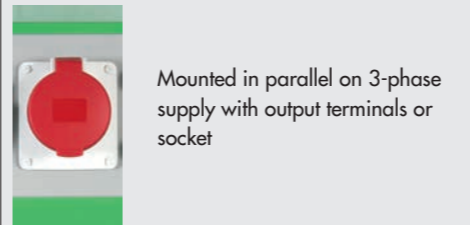
INVERTER SOCKET MODULE



Not wired. For U.P.S

Ref. SE-UPS

3-PHASE HYPRA 16A SOCKET



Mounted in parallel on 3-phase supply with output terminals or socket

ref. HP4

CONTROL AGAINST RUNAWAY

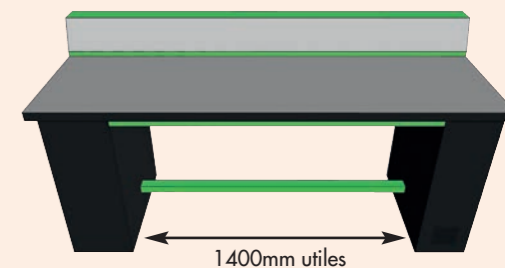
Option for DC motors. This disengageable system allows monitoring of the minimum current of the auxiliary power supply in order to possibly stop the main DC source.



ref. CTRL-E

STRENGTHS LANGLOIS OF WORKSTATIONS

**Significant release**  
Large space for legs (including RLC stations) means that two students can sit each one.



**Practical workbench**  
These workbenches offer the ideal working conditions for students.



**Door opening**  
The door of the load leg (maintenance-free) always opens outwards. The door of the power supply leg can open both inwards and outwards.

