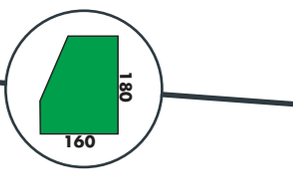
Electrotechnical benches

*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			

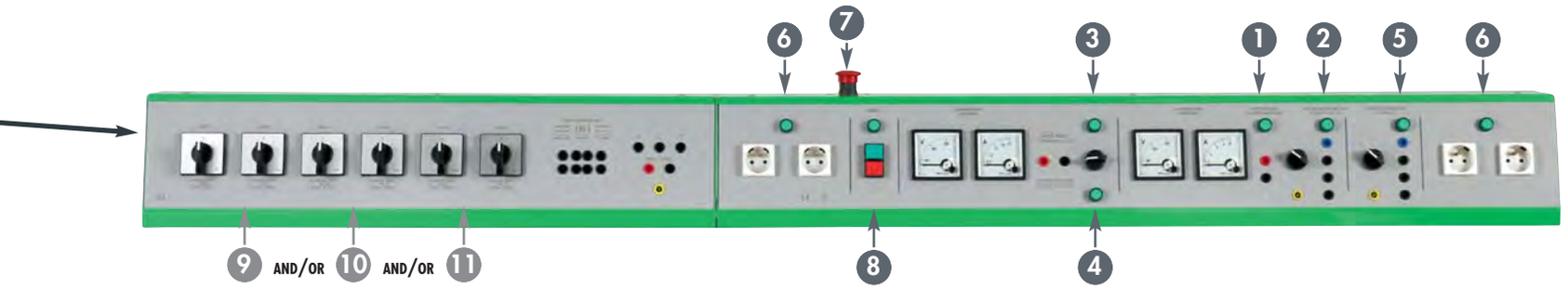
2000VA		ELECTROTECHNICAL BENCHES OF 2KVA RATING								
Ref.	**Ref.**	DC SUPPLY 0-270V 8A ● ●	3-PHASE 0-450V 5A ●	AUXILIARY 0-250VDC 2.5A ● ●	AUXILIARY 0-250VAC 2.5A ●	3-PHASE 3x400VAC 4 TERMINALS ●	4 POWER SOCKETS 230V 2P + E ●	RESISTIVE LOAD 2000W ●	INDUCTIVE LOAD 2000VAR ●	CAPACITIVE LOAD 2000VAR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

Technical furniture

HARD-WEARING LAMP (without maintenance)



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.

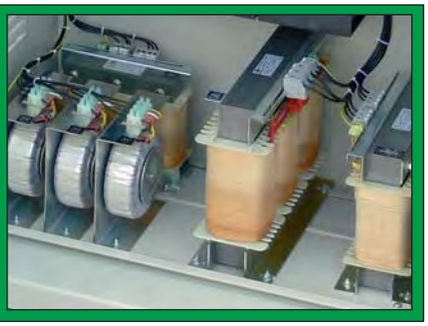
10 CAPACITIVE LOAD

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)**

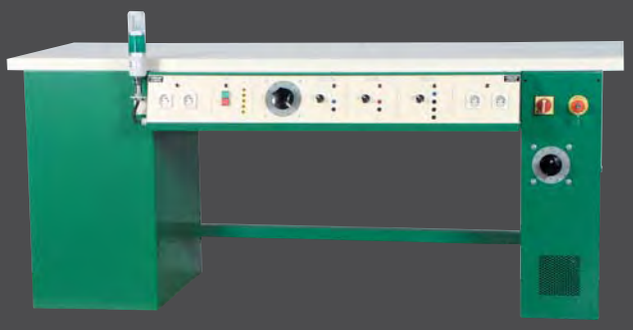
11 INDUCTIVE LOAD

3 moveable cores moved by a control wheel and a 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 accessable. 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



Options for Electrotechnical bench

BENCH TOP IN 1000mm DEPTH

Dimensions 2000 x 1000 mm
Usable space 2000 x 850 mm

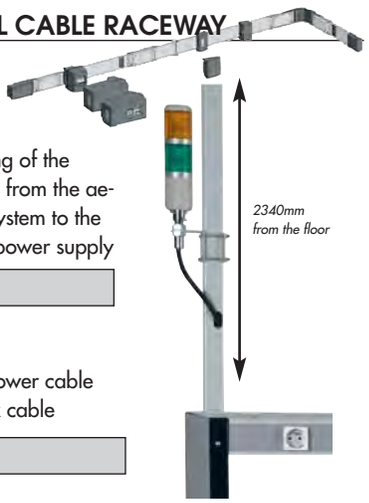
ref. AUG1000-ST

SHELF

Lowered shelf (400mm high)
Depth: 400mm

ref. SB400

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

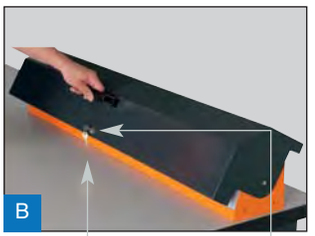
HARD-WEARING LED LAMPS

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. VS-1200
for power console 1200mm

ref. VS-2000
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. AD15I

DC VARIABLE SUPPLY

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

ref. R3030I

3-PHASE HYPRA SOCKET (400VAC)

Fitted in parallel on the three-phase mains output terminals

ref. HP4

CANALIS CONNECTER

Connector for KNA Canalis with fuses 10x38.

ref. KNA02CF5

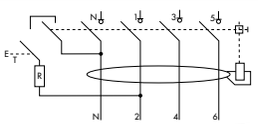
3-PHASE 24VAC SUPPLY

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

OVERSPEED MONITORING

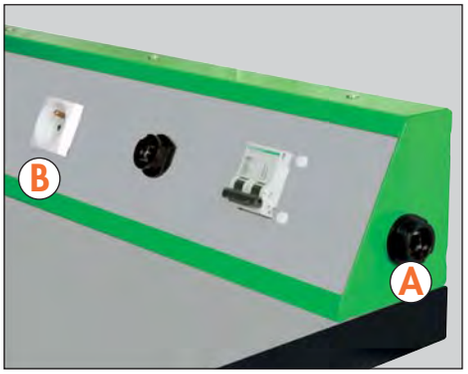
Overspeed monitoring option for DC motors. This system, which can be overridden, enables the operator to monitor the minimum auxiliary power supply current in the event of cutting off the main DC power supply.

1500 t/min

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

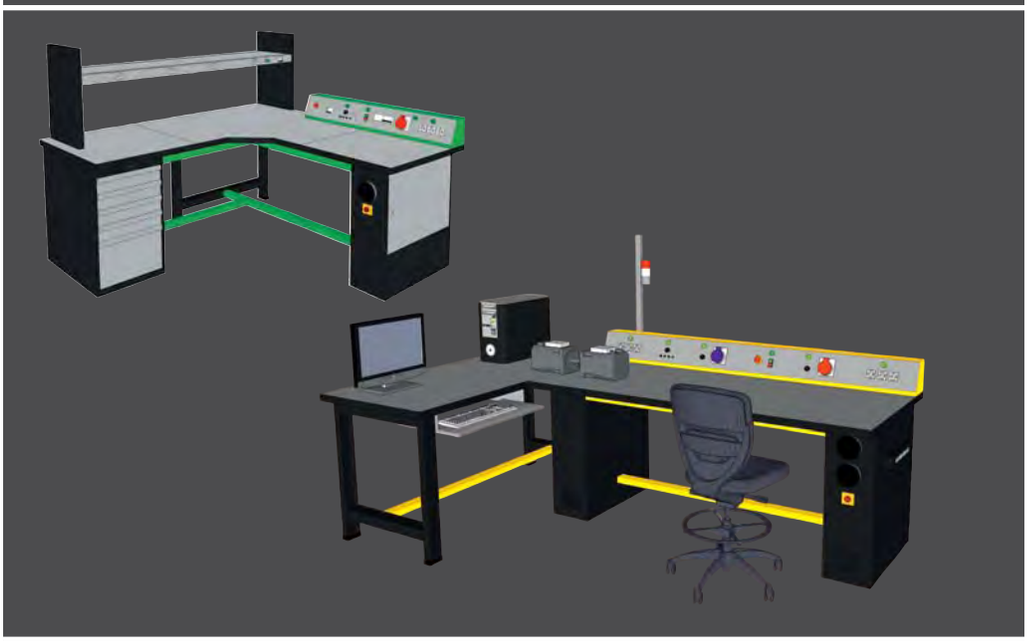
Not wired.
For U.P.S.

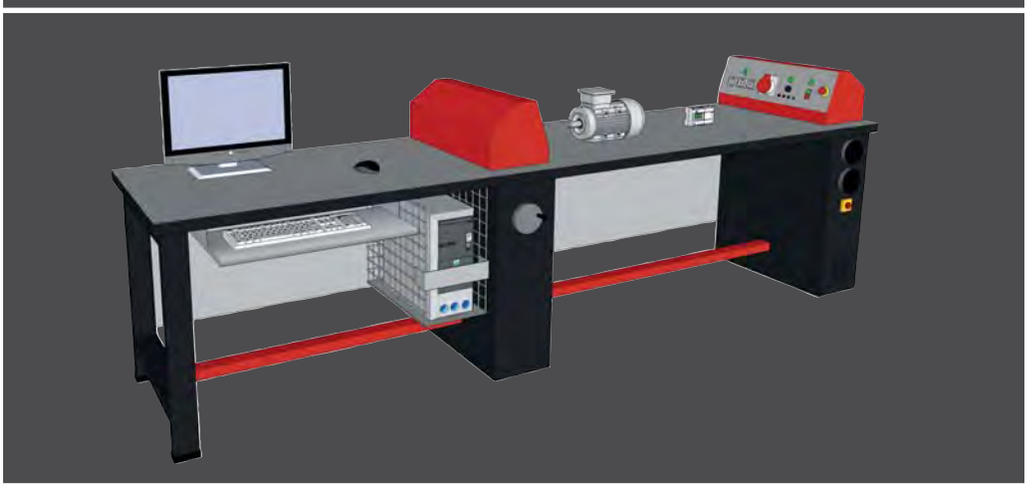
MEASURED POWER SOCKET MODULE

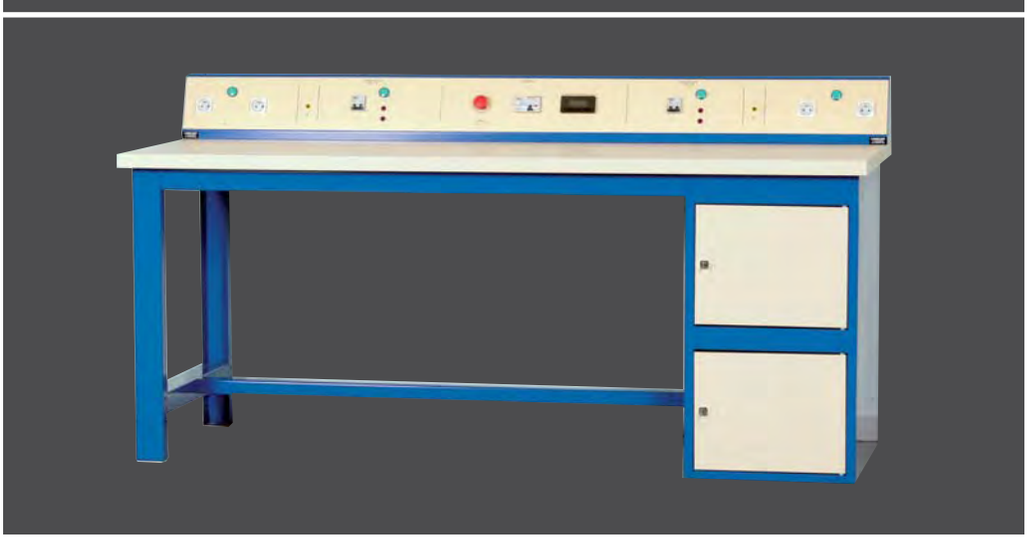
ref. SEPCW

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

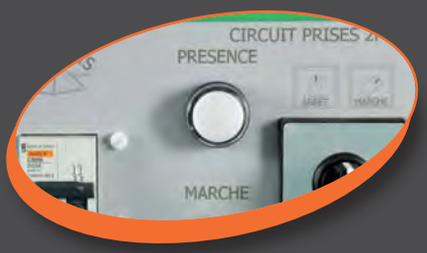
MADE TO MEASURE





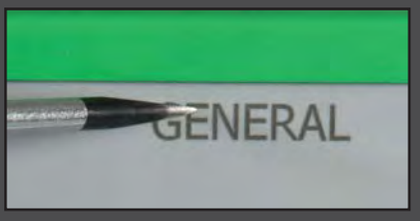


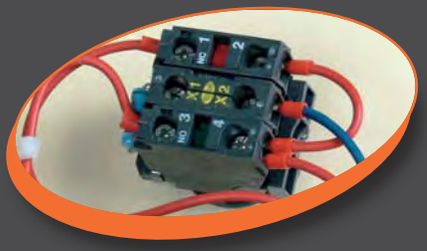
WORKSTATIONS
our quality commitment



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.