





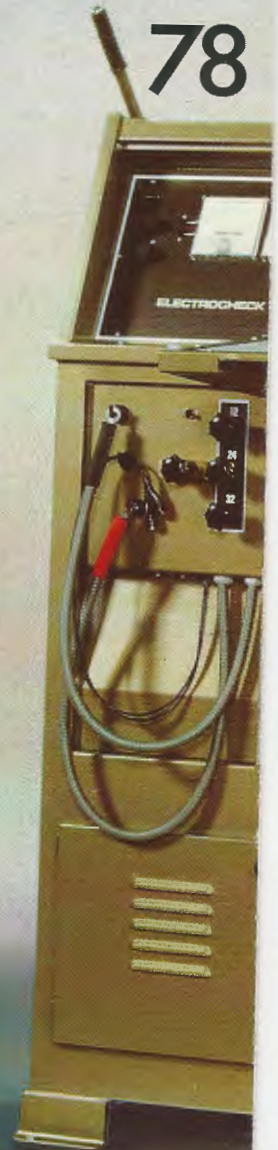
# ELECTROCH

A complete range of mode

83



78





# ELECTROCHECK TEST BENCHES

Turn test benches for generators and st



71





# IES

## and starters!



Electrocheck have been designing and building test benches for generators and starters since 1955.

Our benches are designed to:

- Test accurately everything from the smallest machines to the heaviest industrial and military vehicle and aircraft units.
- Satisfy the requirements of both jobbing repair shops, volume manufacturers and remanufacturers.

Electrocheck benches are an outstanding example of Swedish technology, quality and design.

There are 3 models in our range:

### ELECTROCHECK 83

For generators and starters up to bus and truck size. Has all the features of the 71 plus:

- Illuminated meter panel with clear indicating lines from push-button to meter to indicator light.
- A guard prevents the operator from unintentionally coming into contact with moving parts of the test bench.

### ELECTROCHECK 78

Is the top of the range and covers all applications. Additional features in this bench are:

- Hydrostatic transmission with electronic control makes operation quick and easy.
- The four starter meter readings can be "frozen" both manually and automatically.

### ELECTROCHECK 71

The light bench for car and medium truck applications which features:

- Recessed power take-off pulley and starter gear to protect the operator from accidental contact.
- Plastic shield to protect against splintering.

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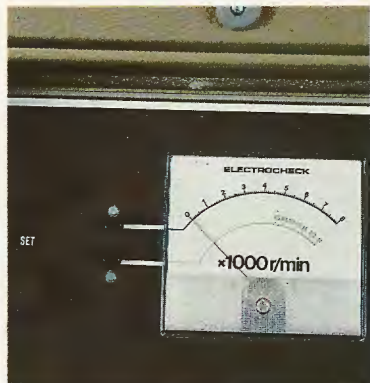


# FEATURES



## Meter memory

All test benches have starter meters with electronic memory. The meter readings can be held until the test is completed. The test can be done quickly and the readings taken at leisure afterwards. The readings are "frozen" manually, and in the case of the larger benches manually and automatically.



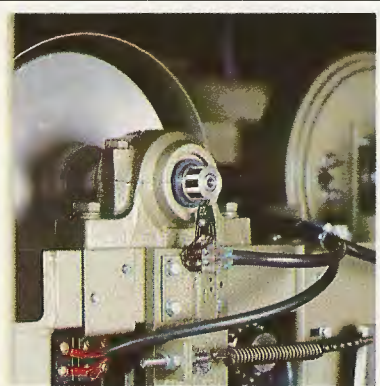
## Ratio compensators

The tachometers are ratio compensated. This means that meters always give correct readings regardless of the generator pulley diameter or of the number of teeth on the starter pinion.



## Automatic range switching

The generator tachometer has two ranges. Switching between the ranges is fully automatic. Selection of the correct range is done electronically and shown by indicator lights.



## Infra-red speed sensor

Generator and starter speeds are taken by opto-electronic sensing devices which together with frequency/voltage converters give exact tachometer readings.



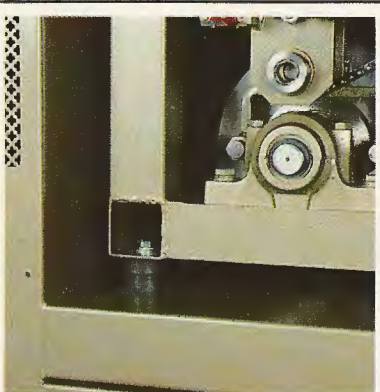
## Dynamic diode tester

One single open or shorted diode can lead to complete alternator breakdown but might normally pass unnoticed during the test. To avoid this risk all test benches have a special diode testing circuit which allows the diodes to be tested during operation. This electronic method immediately reveals a faulty diode, even faulty field diodes.



## Pull-out retractable cables

The connection cables are colour-coded, permanently connected and always to hand for quick connection.



## Vibration-free running

The test bench machinery is rubber-suspended for vibration-free running.



## Separate battery compartment

The bottom of the test bench houses a battery compartment which is completely separated from the rest of the test bench and which can be connected to a vent system. The batteries are placed in a drawer which is easily pulled out for battery inspection.



## Accessories

Electrocheck test benches have a wide variety of accessories, including universal mounting equipment and case-hardened gears. The most common accessories are delivered with the test bench, and others can be ordered separately (see Technical Data, General).



## TECHNICAL DATA

### Generator testing

Capacity

Voltages

Battery switches

Meters

Automatic tachometer range switching

Tachometer ratio compensator

Meter accuracy

Polarity test

Dynamic diode test

Voltage compensated warning light

Generator load resistor

Load resistor cooling

Transient voltage protector

Drive motor

Line voltage

Motor overload protection

Motor operation

Speed control

Speed setting

Power take-off speed range

**71**

Up to 2 kW

6, 12 and 24 V

Rotary switch

Voltmeter 10, 20 and 40 V

Ammeter 120 A (main)  
12 A (field)

Tachometer 5000 and 12000 r/min

Yes

Yes

1.5 %

Green/red LED

Green/red LED

Yes

One carbon pile

Convection

Yes

3 kW asynchronous

380 V 50 Hz 3-phase AC (Other voltage/frequency on request)

Fuses (European standard) (Other type on request)

Push-button operated contactor

One-belt variator

Push-button servomotor

500—5000 r/min (20 % higher at 60 Hz)

**83**

Up to 4.2 kW (5 kW for 5 min.)

12 and 24 V (32 V on request)

Push-button operated contactors

Voltmeter 20, 40 and 50 V

Ammeter 200 A (main)  
12 A (field)

Tachometer 5000 and 12000 r/min

Yes

Yes

1.5 %

Green/red LED

Green/red LED

Yes

Two carbon piles with load indicators

Fan

Yes

7.5 kW asynchronous

380 V 50 Hz 3-phase AC (Other voltage/frequency on request)

Thermal/magnetic circuit breakers

Push-button operated automatic star/delta switch

Two-belt variator

Push-button servomotor

450—4500 r/min

**78**

Up to 9 kW (12 kW with separate load bank)

12 and 24 V (32 V on request)

Push-button operated contactors

Voltmeter 20, 40 and 50 V

Ammeter 300 A (main)  
15 A (field)

Tachometer 5000 and 15000 r/min

Yes

Yes

1.5 %

Green/red LED

Green/red LED

Yes

Two carbon piles with load indicators and one wire wound

Fan

Yes

30 kW asynchronous

380 V 50 Hz 3-phase AC (Other voltage/frequency on request)

Fuses (European standard) (Other type on request)

Push-button operated automatic star/delta switch

Hydrostatic transmission

Preset potentiometers

100—4500 r/min

### Starter testing

Capacity

Voltages

Push-button operation

Meters

Tachometer/torquemeter ratio compensators

Meter accuracy

Meter memory

Starter load

Up to 10 kW

6, 12 and 24 V

Yes

Voltmeter, see Generator testing

Ammeter 2000 A

Torquemeter 120 Nm  
85 lbf ft

Tachometer 8000 r/min

Yes

1.5 %

Two meters, manual "HOLD"

Hydraulic drum brake

Up to 13 kW

12 and 24 V (32 V on request)

Yes

Voltmeter, see Generator testing

Ammeter 2000 A

Torquemeter 120 Nm  
85 lbf ft

Tachometer 8000 r/min

Yes

1.5 %

Four meters, automatic and manual "HOLD"

Hydraulic drum brake

Up to 13 kW

12 and 24 V (32 V on request)

Yes

Voltmeter, see Generator testing

Ammeter 2000 A

Torquemeter 120 Nm  
85 lbf ft

Tachometer 8000 r/min

Yes

1.5 %

Four meters, automatic and manual "HOLD"

Hydraulic drum brake

### General

Table locking mechanism

Belt tensioning mechanism

Meter panel illumination

Dimensions (HeightxDepthxWidth)

Weight

The test bench is delivered with complete operation manual in English.

Batteries are not included

Accessories delivered with the test bench

Accessories available as extras

Yes

No

No

1350x730x1300 mm

500 kg

Yes

Yes

Yes

1350x730x1300 mm

560 kg

Yes

Yes

Yes

1670x870x1870 mm

1100 kg

Chain mounting set. Lug mounting set. Flange mounting bracket. High profile mounting blocks. Belts. Drive adaptor. Starter gear hub. Starter gears (pitch 8/10, pitch 10/12, pitch 12, module 3.0).

Regulator bracket. Low profile mounting blocks. Starter gears (pitch 6/8, module 3.5, module 2.75).

For more details about Electrocheck please contact:

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MADE IN SWEDEN