CMWTEC technologie GmbH

ECO HIGH RATE DISCHARGE TEST MACHINE

Technology
[made in Germany]

Automatic final electrical load test of automotive car and truck batteries with automated process and semiautomated handling, incl. CMWTEC technology

The Advantage:

- Automatic test process
- Adjustment by toggle bolt
- Terminal contact by push system
- OCV,CCV; deltaV Test (by individual test device, option)
- Reject table for failed batteries
- Adaptable to leak test machine as combination unit

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Basic machine
The basic machine accommodates the individual components and contains the pneumatic and electric control system of the machine. The basic structure accommodates the operating console which is horizontally adjustable. The latter serves to accommodate the testing station, the different heights of the batteries are adjusted via the vertical cylinder movement.

Test unit
The test unit accommodates the probe with a corresponding test pin. For testing, the probe is moved onto the terminals of the battery.

Battery positioning unit
For testing, the batteries are exactly positioned under the testing unit. This performed by a system, which always guarantees an exact centre-positioning and does not require any change of positioning in machine direction.

Lateral guide unit
The lateral guide including the battery separation and the exit monitoring device is designed for laterally adjusting the battery below the working station. A clamping mechanism ensures the adjustment to be executed exactly and fast.

Reject unit
Batteries that failed the HRD test will be rejected at the end of the machine on a separate table.

Battery conveyor unit
A flat top chain in a PP body transports the batteries through the machine and, at the same time, ensures them to be adjusted smoothly and exactly at the test position.

Description of function
The machine is designed for high rate discharge test of batteries after the formation in the finishing area. The individual batteries supplied through the conveyor of the test machine are positioned exactly. The test stroke is lowered onto the battery terminals. By especially electrical measuring system (which is placed at disposal of the customer) batteries will be controlled. Therefore, the unit is provided with two control units for each end terminal, positive and negative.

Technical specifications

Battery type	:	automotive car and truck batteries
Capacity	:	up to 8 batteries/min (depending on test time)
Weight of batteries	:	20 – 70 kg
Dimension of machine	:	L = 2500 mm W = 1400 mm H = 2200 mm
Construction	:	Stainless steel 304, with aluminum profiles
Electric	:	230/400V, 3-Phase, 50/60 Hz, 4 Wire
Control voltage	:	24 DC
Power consumption	:	3,5 kW
Operating pressure	:	6 bar (90 psi)