CMWTEC technologie GmbH

HIGH RATE DISCHARGE TEST MACHINE

Technology
[made in Germany]

Automatic final electrical load test of automotive car and truck batteries with best and high technology

The Advantage:

- Terminal contact by clamping system
- Individual clamping tools for DIN, JIS, Ford, FLAT Terminals
- OCV,CCV; deltaV Test (by individual test device, option)
- Reject table for failed batteries
- Fully automatic test process
- Short change over time
- 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 vertically adjustable. The latter serves to accommodate the testing station, the different heights of the batteries are adjusted via the vertical spindle movement.

Test unit
The test unit accommodates the probe with a corresponding test clamp. For testing, the probe is moved onto the terminals of the battery and while testing a hermetic sealing between terminal and test clamp is guaranteed.

Test clamps
The test clamps with the form of the terminals are opened and closed by a pneumatic grab and enclosed the terminal in test position, so that a superb and smooth connecting is guaranteed.

Battery positioning unit
For testing, the batteries are exactly positioned under the testing station. 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
Following the HRD Test unit the machine is equipped with an eject unit. If there is a failure, the battery will be rejected at the end of the machine on a table.

Battery conveyor unit
A flat top chain 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 dep. on test time (single station)
Weight of batteries	:	20 – 70 kg
Dimension of machine	:	L = 2500 mm W = 1525 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	:	2,0 kW
Operating pressure	:	6 bar (90 psi)