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Automatic Weld Condition Checking Machine for Automotive Battery

TCKVD-10(R)



Description:

When the battery has been completed the Inter Cell Welding, then it has to be checked the Welding Condition Check Machine in order to check weld condition of each cell. This machine is specially designed to ensure the quality of welding.

Features:

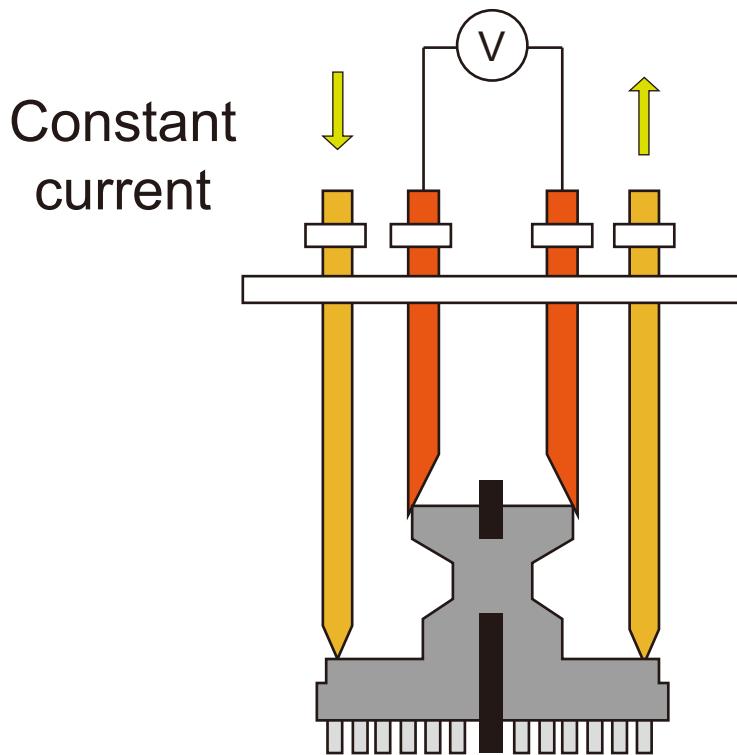
- Using Ohm's law theory $V=I \times R$
- Capacity: 5+ batt/min (below N70)
- It is suitable to test all types of automotive battery.
- It is easy to change over different test tooling (mold). (Only 2 set of test tooling to apply on all type of battery.)
- It is equipped with the system of auto-stop of no feeding and auto-start of re-feeding.
- High accuracy is designed to control battery quality under the quality policy of each customer.
- The test system does not damage partition in comparison with traditional testing method (by shear test)
- HMI indicates location of bed welding by showing graphic.



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The theory of weld condition checking machine is by formula Ohm's law $V = I \times R = I \times ((\rho \times l)/A)$ (A : Welding Area, ρ : Coefficient of Resistance). Voltage and resistance is under direct proportion if current is constant. Therefore, system is by delivering constant adjustable checking current with max. 50A and obtaining V value on the five welding points. Higher the V value is higher resistance on the welding points. It could consider as low welding quality.

Voltage measurement



Dimension and Weight:

- Approx. 2200(L) x 1500(W) x 2035(H)mm
- Weight Approx. 900kgs



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SPEC	TC
Testing Principle (Ohm's Law) V=IR	V
Capable to work 1x6 & 2x3 layout	V
Capacity (below N70)	5+ batts / min
Quick tooling change over different models	V
HMI support (Number of recipes)	V
Production volume control	V
HMI indicates location of bed welding by graphic	V
Rigid roller conveyor with battery central system to avoid scratch	V
Rejection when welding condition is below / over setting	V
With max. adjustable testing current 50A	V
Defected battery alarm with cell indication	V
Full batts detection (stop the line) by sensor	V