

# AUTOMATIC FINAL TERMINAL CHECK MACHINE



Technology  
 [made in Germany]

Automatic final terminal check of automotive car and truck battery terminals with best and high technology



Info Machine			
D-Term.1	D-Term.2	Terminal Height	
D1=00.0mm	D1= 00.0mm	Post 1	H= 00.0mm
D2=00.0mm	D2= 00.0mm	Post 2	H= 00.0mm
Batteries Total: 0000000000			Reset Battery Counter
Batt. per Shift: 0000000000			
Batteries Ok.: 0000000000			
Batteries rejected: 0000000000			
Batt.Ok		Batt.Not Ok	
Main Menu			



Setup Terminal 1	
Terminal-Diameter	Diameter Values
	D1= 00.0 mm
	D2= 00.0 mm
	D3= 00.0 mm
Terminal-Height	Height Values
	H= 00.0 mm
Setup Terminal 2    Main Menu	

## The Advantage:

- Test of battery terminal height and diameter
- Precision of measuring process height: +/- 0,1 mm; Ø: +/- 0,5 mm
- Contactless measuring process
- Interface to read out test data
- Reject table for failed batteries
- Fully automatic check process
- Short change-over time

### **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 3D Sensors for contactless measuring process. While the batteries run passing through the machine, the sensor scans the battery terminals

### **3D Sensor**

The 3D Sensor is checking the battery terminals constantly and compares the values with the set values which are pre-programmed in the PLC.

### **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**

The machine is equipped with a reject table. Batteries which are not OK will automatically rejected and collect on a separate table, to continue the production process.

### **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 under the check position.

### **Description of function**

The machine is designed for checking the positive and negative terminals of batteries in a finishing line. The individual batteries supplied through the conveyor of the finishing line are passing through exactly. By especially 3D sensor scanning system, battery terminals will be controlled. Terminals which are not in the tolerance of height, upper and lower diameter, will be automatic rejected on a separate table.

### **Technical specifications**

Battery type	:	automotive car and truck batteries
Capacity	:	up to 8 batteries/min
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	:	2,1 kW
Operating pressure	:	6 bar (90 psi)