

AUTOMATIC DEGASSING BOTTLE INSERTION MACHINE

Technology
[made in Germany]

Automatic degassing bottle insertion for automotive DIN AGM car batteries with best and high technology



The Advantage:

- Fully automated push-in setting process
- Precise bottle insertion by sensor controlled unit
- High productivity up to 8 batt/min
- No bottle pre-sorting necessary
- Small footprint
- No change over between different battery length necessary
- Support for degassing bottle design (option)
- 100% acid resistance

Basic machine

The basic machine consists of a welded base frame carrying the individual assemblies. It consists the vibration sorter to bring plugs to the correct position. Adjustments can be made through servomotors and through spindles. Also, electrical and pneumatically cabinet is installed.

Insertion unit

The insertion station is positioned in a way that batteries can be positioned exactly under this. The bottles are push-in one by one into the batteries by means of a pneumatic cylinder. All All functions are electronic controlled.

Bottle storage unit

bottle storage is realized by means of a storage funnel. The funnel is equipped with an output conveyor unit releasing a specified quantity of bottles into the vibration sorter.

Bottle control unit

The bottle control unit is checking each single bottle to achieve a 100% setting. Detection of non- pushed bottles will be monitored and displayed on the panel.

Reject unit

The bottle control unit device consists the detection of missing bottles. If there is a failure, the battery will be rejected at the end of the machine on a table.

Battery positioning unit

The batteries are positioned exactly underneath the setting unit, by a fixed stopper system.

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.

Battery conveyor unit

A PP chain transports the batteries through the machine and, at the same time, ensures them to be adjusted smoothly and exactly at the setting position.

Description of function

The degassing bottle insertion machine has been designed for a finishing line following the Initial Acid Filler. The batteries filled with sulphuric acid are temporary sealed simultaneously by means of single push-in bottle and checked if bottles missing, before approaching the water bath formation.

Technical specifications

Battery type	:	automotive DIN AGM car batteries L2-L6 (H5-H9)
Capacity	:	up to 8 batteries/min (depending on battery size)
Weight of batteries	:	20 – 40 kg
Dimension of machine	:	L = 2000 mm W = 2600 mm H = 2900 mm
Construction	:	Full acid proof Material, Stainless steel 316Ti Plastic PP and PVC Pieces not acid resistant with special protection
Electric	:	230/400V, 3-Phase, 50/60 Hz, 4 Wire
Control voltage	:	24 DC
Power consumption	:	3,4 kW
Operating pressure	:	6 bar (90 psi)