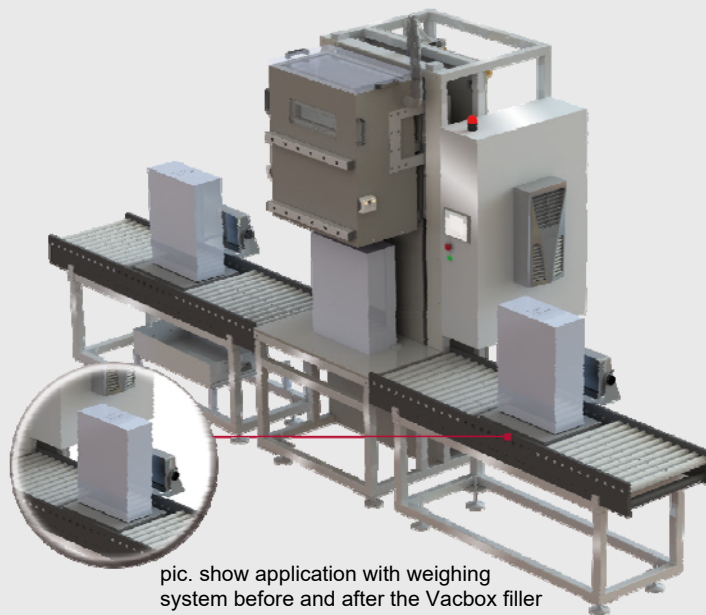


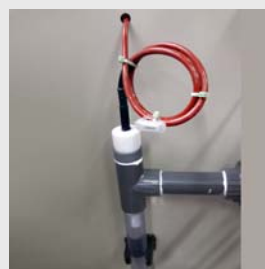
SEMI-AUTOMATIC AGM VACBOX FILLING MACHINE

Technology
[made in Germany]

Sophisticated technology with patented vacuum filling system for AGM / VRLA batteries.
Different applications available for different specification's.



pic. show application with weighing system before and after the Vacbox filler



The Advantage:

- Semi automated handling process
- Fully automated filling process
- Battery evacuation inside & outside of the battery
- Exact filling volume by flow meter
- Avoiding air inclusions during filling process
- Production of batteries with a higher performance
- Optional weighing system available
- Short change-over time

Basic machine

The base unit is a steel structure and serves as a support for all other assembly groups.

Filling unit

The purpose of the filling unit is to fill Acid into the battery, monitored by flow meter and filled under vacuum in a special patented Vacbox System

Acid supply unit

The supply unit contains the flow meter and the dosing valves.
The precise dosing of the electrolyte is achieved by an inductive flow meter with computation electronics.

Flow meter

Turbine measure principal for liquids by different flow rates with special construction for aggressive liquids as sulphuric acid and low temperature.

Vacuum unit

The vacuum unit produces a negative pressure for filling AGM / VRLA batteries.

Description of function

This machine was designed and developed for the purpose of filling batteries with sulfuric Acid supported by vacuum. The volume of Acid to be filled in is dosed by a volumetric measuring system. The Acid is supplied to the individual filling heads through the distribution system. Flow meter for each filling head guarantees an exact and precise volume per cell. The filling heads can be adjusted according to the distance of the battery cover holes.

Technical specifications

Battery type	:	AGM/VRLA car, truck, telecom, industrial batteries
Capacity	:	1 - 2 batteries/min (depending on group compression)
Filling level	:	+/- 0,5-1% of the Volume
Weight of batteries	:	20 – 70 kg
Dimension of single machine	:	L = 1300 mm W = 1500 mm H = 2200 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	:	5,5 kW (double head machine)
Operating pressure	:	6 bar (90 psi)