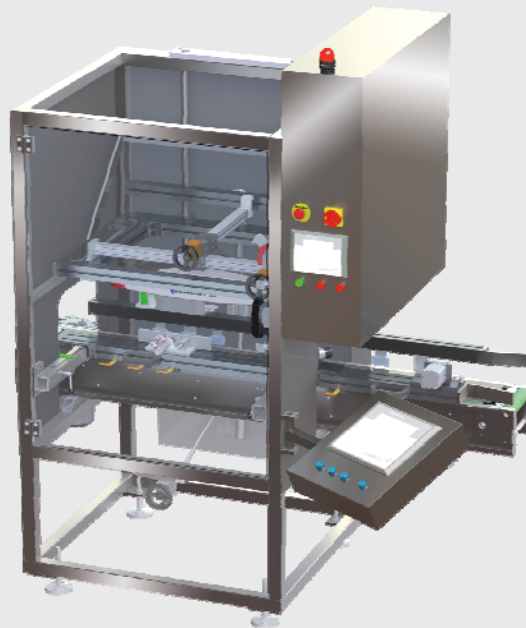


AUTOMATIC LASER MARKING MACHINE

Technology
[made in Germany]

Automatic marking of automotive car and truck batteries
with best and high technology



The Advantage:

- Automatic laser marking process
- Marking batteries on top or on side
- Marking on plastic box or lead post
- Pre-selection of numbers or letters or combinations
- Short change-over time

Basic machine

The basic unit has been designed for housing the individual assemblies and contains the pneumatic and electrical machine controls. The base frame houses the working console that is vertically adjustable. The function unit is mounted onto the working console and the various battery heights are adjusted by means of the vertical spindle movement.

Function and marking unit

A date code is applied to all batteries prior to leaving the machine. The date code is changed manually by a machine operator. The date code is to be applied by a laser unit. The laser code unit is located on a moveable coordinate system to set-up it to the position of top or side of the battery cover. The coordinates are stored in a library data base for each battery type.

Battery positioning unit

For marking, the batteries are exactly positioned under the function unit. 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 function unit. A clamping mechanism ensures the adjustment to be executed exactly and fast.

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 marking position.

Description of function

The machine is designed for marking the battery by a laser. Single digits or Matrix (2D-code). The individual batteries supplied through the conveyor of the finishing line are positioned exactly. The laser stroke moves down, and single digits are marked of the battery. Whenever the pre-selected code is written the laser stroke raised up and the battery is feed out of the machine. The next batteries are feed into the machine.

Technical specifications

Battery type	:	automotive car and truck batteries
Capacity	:	up to 8 batteries/min (depending on digit nos.)
Weight of batteries	:	20 – 70 kg
Dimension of machine	:	L = 2000 mm W = 1000 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	:	3,1 kW
Operating pressure	:	6 bar (90 psi)