

Battery charging systems

Gravity conveyor system

Sickert & Hafner GmbH

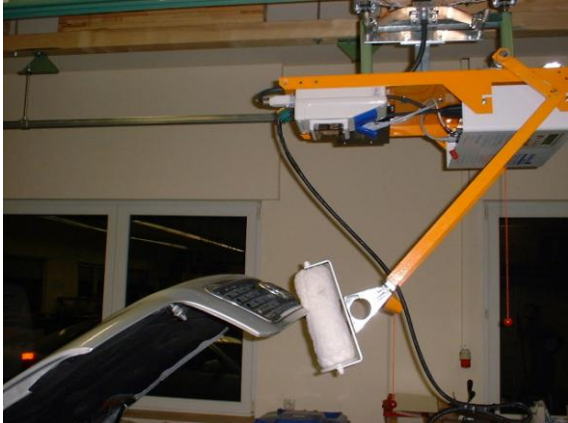
Automotive Systems

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Gravity conveyor system

The *gravity conveyor system* is our lowest cost battery level maintenance solution for auto production lines.



Operating principle

During the charging phase, the gravity conveyor system leverages the forward movement of the floor conveyor to transport battery charging units (BCU) in that the vehicles on the floor conveyor either push the units when the engine hoods are open, or pull them with the hoods closed.

The battery charging unit uses gravity for the return trip in that the conveyor has a slight incline that allows the unit to return to the starting position under its own speed. Hence the gravity conveyor requires neither a conveyor chain nor a motorized battery charging unit.

Application domain

The gravity conveyor is suitable for production lines that need a low-cost car battery level maintenance solution and whose conveyor cycle is more than four minutes, so as to allow sufficient time for the necessary operating steps to be carried out.

Advantages

- The gravity conveyor is a low cost, low maintenance battery charging system that requires neither conveyor chains nor drive motors.
- No labor intensive and costly synchronization with the floor conveyor is needed.
- The number of battery charging units needed is limited to the number of conveying cycles realized, plus one unit for the return stretch.
- The device carrier can be adjusted to an ergonomically optimal position for the operator.

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