



User-friendly loading of electroplating drums with screws

Product group: Hopper discharge unit

Industrial process: Discharging, feeding, conveying

Industry: Steel Production, Foundry Technology

Type of drive: Magnetic vibrator



capacity (t/h): 10 | **bulk:** Screws, sleeves, washers, bearing shells | **density (t/m³):** 2 | **grain size (mm):** 0 - 10

function:

A tipping device is used for loading a galvanising barrel. The operator pours the raw material into the chute of the tipping device. By means of a scale on the device, the operator knows how much he has to put into the chute. The loading system is to be automated in a more user-friendly way as part of a conversion project. The raw material is to be discharged directly from the crate used into a material hopper located above the oscillating conveyor chute. When the required weight of the material is reached, a flap is to close the system.

solution:

AVITEQ offers a solution with a vibrating discharge unit (OA1500/500ASK-MVD). This consists of a hopper above the vibrating feeder that pulls the product out of the hopper and a pneumatic flap system. The flap, which is

rotatably mounted on the chute, opens the conveyor chute via pneumatic cylinders and moves a chute to the end of the vibrating feeder. The vibrating conveyor chute then feeds the product from the hopper into the chute, which directs the product into the drum. When the entered target weight is reached, the flap closes. The surfaces that the screws touch are additionally protected with a sprayed-on polyurethane. In addition to wear protection, this also minimises noise.

usability:

The discharge unit minimises the working time of the person filling the system. The operator no longer has to weigh manually the correct quantity on site. The system is only filled and then independently regulates which quantity is fed into the galvanising drum. By using the magnetic vibrator drive, there are no further follow-up costs due to wear. This drive can be used for decades without maintenance and relubrication.

place of installation: Germany