



Magnetic loading systems Forplan MULTI XYZ

Tasks

Forplan MULTI magnetic loading systems supply production plants with parts. In most cases, bulk parts are conveyed from a large container into the machine own feeding device. The aim is to provide as many production facilities as possible with parts by means of a single system.

The XYZ model can move along all three axes so that parts can be fed directly into small feed chutes without drop heights.

Principle of operation

By means of sensors, Forplan loading systems monitor whether production plants are supplied with enough unfinished parts. If this is not the case, a mobile, overhead travelling transfer robot is required. This provides the concerned machine with parts. For this purpose, an electromagnet is lowered on a support strap into a large container. As soon as the magnet reaches the parts, it pulls them towards itself via adjustable magnetic forces. Subsequently, the magnet is lifted, moves over the feeding vibrator, is lowered and places parts into the machine own feeding unit. In the course of this, parts are placed down without any drop height being generated. During conveyance into the machine feeder bowl, parts are channelled through a continuous flow demagnetisation process.

Advantages

- Very space-saving as it travels overhead
- Fully automatic parts feeding of up to 20 facilities with only one system
- Very gentle loading without drop heights
- No residual magnetism, each batch being demagnetised
- Suitable for a very large range of components
- No pouring and tipping processes

Examples of use

- Loading of sorting plants
- Loading of 100% testing plants
- Loading of thread cutting machines
- Loading of automatic assembly machines
- Loading of furnace systems
- Loading of packaging systems

Range of components

- Screws
- Nuts
- Rivets
- Stamped and bent parts
- Bulk material in general

