



Forplan Multi magnetic loading systems

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.

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 and the parts are conveyed into the corresponding production machine by means of a chute or during the lowering process.



Advantages

- Very space-saving as it travels overhead
- Fully automatic parts feeding of up to 20 plants with only one system
- Very gentle loading with minimum drop heights
- No residual magnetism, as each batch is demagnetised
- Suitable for a very large range of components
- No pouring and tipping processes

Examples of use

- Loading of mills
- Loading of thread cutting machines
- Loading of 100% testing machines
- Loading of furnace systems



Range of components

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

