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New electromagnet for automatic loading systems

Tasks

The latest generation of electromagnets for Forplan automatic loading systems increases the feeding amount per stroke. In addition, the amount of parts can be better adjusted, and the risk of part loss is minimised.

Principle of operation

So far, magnets do not consist of an individual coil, but of many small, interconnected ones. This creates a magnetic field which generates a smaller depth effect. However, parts stick together not only in the middle of the magnet, but on the whole effective surface. This property allows more parts to be conveyed per stroke. In addition, no more material tails are formed.

Advantages

- Higher performance
- Better dosage
- Smaller depth effect
- Larger surface effect
- No formation of material tails
- New geometric shapes can be produced (e.g. square)

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