



CASE HISTORY

HANDLING DIFFERENT TYPES OF LARGE TROLLEYS FOR FOOD INDUSTRY



CHALLENGE

A Company manufacturing trolleys for shop floor material handling needed a lift assist device for handling 46 different types of large trolleys at the sealing stage of their production line.

Loads to be handled: 46 different types of large trolleys for Food Industry:

- 31 types of large sliding trolleys
- 5 types of large trolleys for carrying dishes
- 10 types of large trolleys for table serving

Their weight ranges from 12 to 38 kg.

All large trolleys are picked in horizontal position from either one of the 3 sealing machines.

The **trolley must then be rotated by 90/180°** and released onto the floor or, depending on the trolley type, piled one on top of another.

Load handling unit requirements:

- Possibility to handle all large trolleys types with only one lift assist device.
- The lifting device must be especially user friendly in order to allow workers with no experience to use it.
- Ergonomic design.
- Maximum safety against load drop and against sudden and uncontrolled movements of the gripping tool.

SOLUTION

A column mounted Liftronic® Air with custom gripping tool suitable for handling large trolleys with grip on their internal side.

The gripping tool is equipped with **2 ergonomically designed handles** and a 600 mm long sensitive handle.

The gripping tool is designed for 3 chuck sets easy to replace, suitable for the 3 different categories of large trolleys.

Advantages of the INDEVA® Liftronic® Air:

- **Liftronic® Air is auto weight sensing and auto balancing**, thus making the task of handling different types of large trolleys with different weights easy and user friendly with no need of any adjustment.
- Liftronic® Air is very responsive to the operator's intention, thus allowing for **smooth and natural movements** in picking, rotating and releasing stages.
- Liftronic® Air features the highest safety standard available for lift assist devices.
- Liftronic® Air rigid parallelogram arm **can handle heavy and bulky offset loads** with ease and precision.
- Liftronic® Air's electronic control over the pneumatic circuits allows for **efficient air consumption, thus eliminating air waste.**

See all solutions provided from INDEVA® at <https://www.indevagroup.com/best-solutions-for-material-handling/>