CASE HISTORY

HANDLING METAL CRATES IN AEROSPACE INDUSTRY
CHALLENGE

A Company that manufactures parts for the Aerospace industry needs to pickle metal parts. **This manufacturing stage needed a load handling system for picking, rotating and moving metal crates containing the metal parts to be pickled.**

The required material handling solution needed to perform the entire work cycle in a safe manner and at the same time allowing for speed and ease of move, so that this repetitive task could be carried out efficiently and with the least possible effort.

**Main issues to consider for handling metal crates at this production stage:**

- The weight of the metal crates with the metal parts to pickle ranges from 20 to 40 kg.
- The **metal crates must be rotated by 180°** in order to empty their content.
- The worker handling the metal crates must be safeguarded against the high temperature of metal parts at the pickling stage.

**A complete work cycle is carried out in 5 steps as follows:**

- Grip the crate on its external diameter Ø315 at 270 mm from the floor
- Release it on a hook at 697 mm from the floor
- Pick the crate at 697 mm from the floor
- Rotate the crate 0-180° for emptying its content into a bag (150 to 1000 mm from the floor)
- Release the crate at 270 mm from the floor
A column mounted Liftronic® Air with custom gripping tool suitable for handling cylindrical metal crates and rotating them by 180°.

Liftronic® Air allows for quick and precise movements thanks to its great responsiveness feature given by the electronic INDEVA® control system.

Liftronic® Air allows for the greatest level of safety available for lifting equipment.

Liftronic® Air is the latest technology providing the best performance and user friendliness.

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