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 mmfrom 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

SOLUTION

A column mounted Liftronic® Air with custom gripping tool suitable for handling cylindrical metal crates and rotating them by180°.

Liftronic® Air **allows for quick and precise movements thank 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.**

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