

APPLICATION CASE STUDY #148

SIC Code:
3069

Product Handled:
Aluminum spools wound with rubber strands

Machine Type:
Vertical Lift Cylinder

HANDLING PROCEDURE:

Remove aluminum spools wound with rubber strands from the horizontal spindles on a winding machine and transfer them to a cart with horizontal shafts.

PROBLEM:

The aluminum spools have an inner and outer wall between which a tool can be inserted. However, the opening between the spool walls is curved, has spokes which create four quadrants, and only a 3/4" height into which a tool can be inserted. In addition to supporting the weight of the spool, the tool is to be used to slide the spool off of the spindle.

MATERIAL HANDLING REQUIREMENT AND WORK AREA RESTRICTIONS

- Spools with wound rubber strands weigh 15 to 150 Lbs.
- Tool must be inserted into the 3/4" high curved openings in the double walled spool.
- Two 12" long spools must be handled at the same time.
- Tooling needs to support the spool weight and will be used to slide the spool off the spindle.



MATERIAL HANDLING SOLUTION

- Vertical Lift Cylinder with 48" of vertical travel and 360 degrees operator limited rotation.
- Poke tool with two curved forks to fit into two of the four openings in the spool.
- A lever at the end of each fork is power rotated to trap the spool on the forks. The trapped spool can then be pulled off of the spindle.
- Colored indicator pops up when levers are fully rotated to trap the spool.
- Manual rotation of poke tool about its horizontal axis for aligning forks with spool openings.
- An operator control station with vertical steering bars, push button metering valve for up/down control, and push buttons for the levers that trap the spool.

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