

Can Elevator

Background:

In most canning operations, it is necessary to elevate and in some cases lower cans from the Filling level to the Further Processing level. Reliability and floor space issues are a concern and present with other existing methods. Millard addresses both these issues with our Spiral Can Elevator.

Problem:

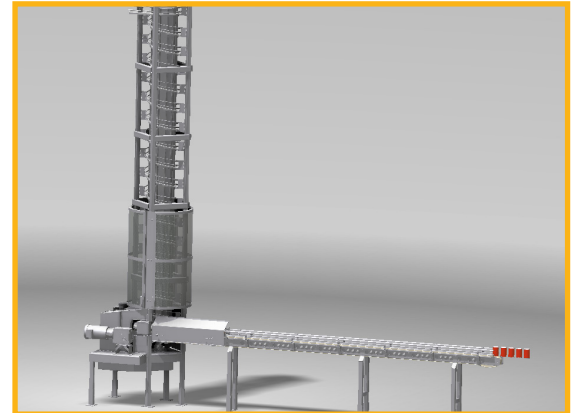
A leading canning company was looking for a high speed means to transport containers (cans in this case) from ground level up to ceiling elevations in limited space. This company turned to Millard Manufacturing Corp for their process solution.

- *Restricted floor space*
- *Reliability*
- *High speed transport*
- *Gentle handling of cans*
- *Custom designed to fit floor space and process parameters*

Solution:

Millard's engineering department designed and developed a revolutionary "Can Elevator" to convey the customer's canned product in a vertical spiral using minimal floor space. The resulting design incorporated the following:

- *Heavy Duty Stainless Steel Construction*
- *Rotating center core with flights to push containers up an incline rail system*
- *A precision UHMW lead screw to meter the cans into the rotating core*
- *Various discharge configurations, including a flat top conveyor or integrated cable conveyor*
- *Single point manifold style lubrication*
- *Conveyor drive section is designed to integrate into the customers conveying system*
- *Custom designed to specifically fit product cans and meet exact customer requirements*
- *Low maintenance and operating costs*
- *Speeds up to 1200 cpm (cans per minute)*
- *Quiet operation*
- *Wash-down duty for sanitation*
- *Foot print of elevator 35" X 71"*



Results:

The design provided a compact and simple means of elevating or declining containers.

- *Floor Space Savings of 54 ft² or 75 %*
- *Greater flexibility in designing product flow*
- *Lower maintenance costs*
- *Reduced downtime*