

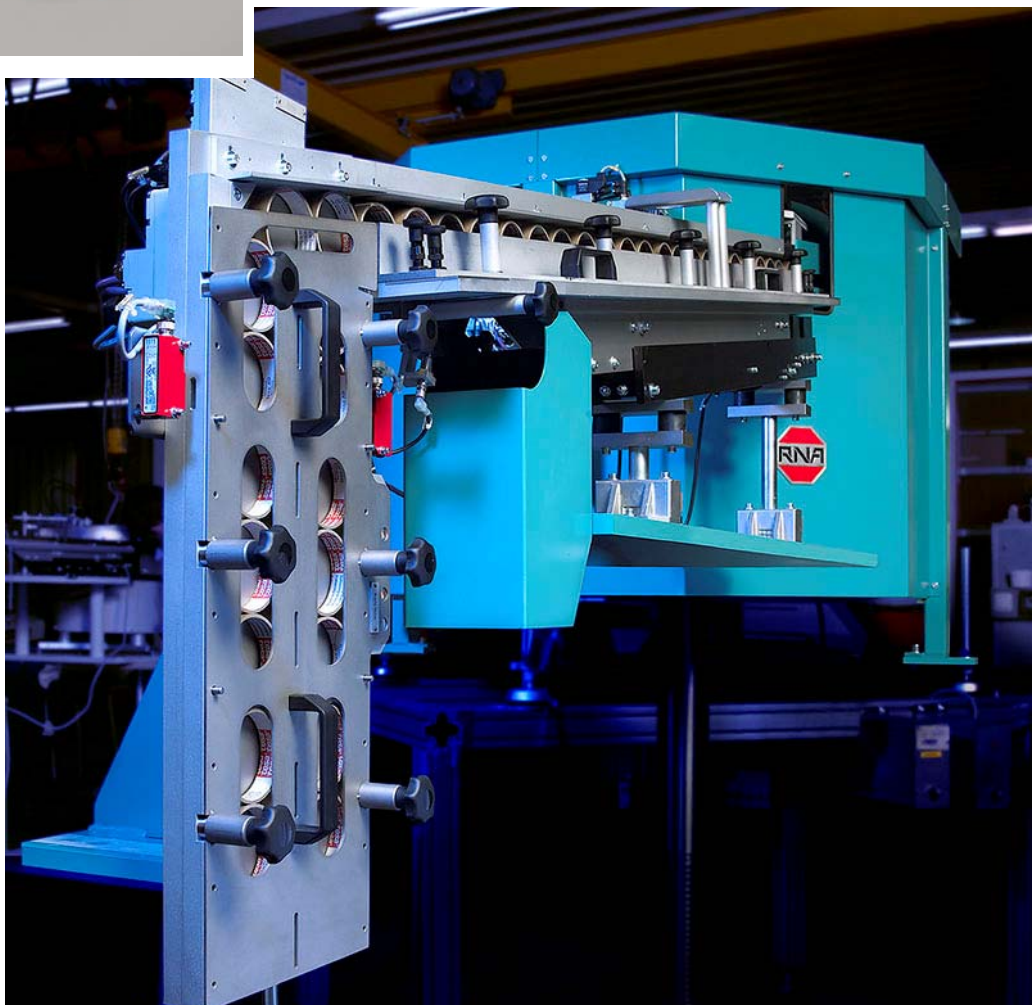


Centrifugal Feeding of Cardboard Shells



Cardboard Shells, 8 Types
Ø76.2 mm, Height 9 – 50
mm

Hopman Feed Systems
Reference-No.175



RNA Automation Inc

Operation Description:

Sector

Manufacturer of consumer goods (end customer is a manufacturer of tape rolls).

Workpiece

Cardboard shells (wrapping-cores for tape rolls), 8 types, Ø76.2 mm, width 9 – 50 mm.

Performance Requirements

The shells are fed on top of one another with the axes parallel through two separate tracks to a winding machine.

Operation Description

The shells are loaded into a centrifugal feeder from a 200 litre hopper. Inside the feeder the shells are sorted while rolling and with this orientation they are passed to a linear track as a accumulation section

At the end of the linear conveyer the shells are distributed to two tracks. No active pneumatics or cylinders are necessary for the distribution.

The 8 types are separated into 3 part-families with corresponding changeable elements. All formats are adjusted using dowels and quick-tooling and are checked with the use of sensors for the selection of the correct tooling settings. The conversion time for the entire feed system with a product change requires less than 10 minutes.

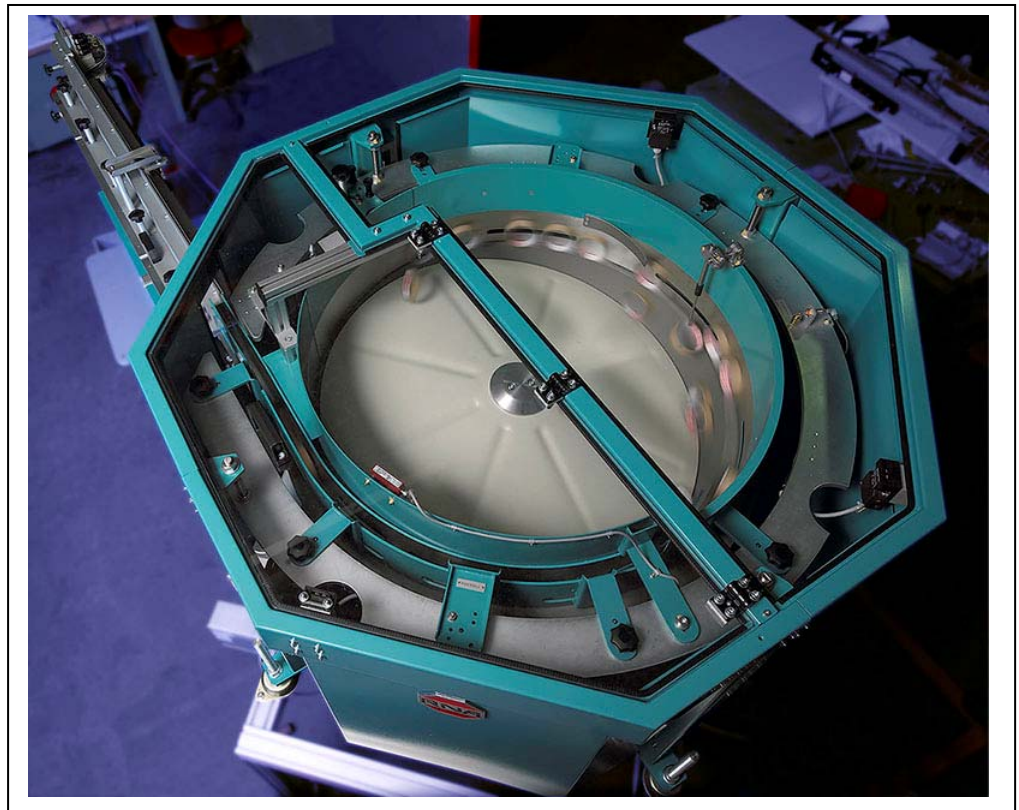
Performance

56 parts per minute/run with a shell width of 25 mm.

25 parts per minute/run with a shell width of 50c mm.

Technical Contact

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