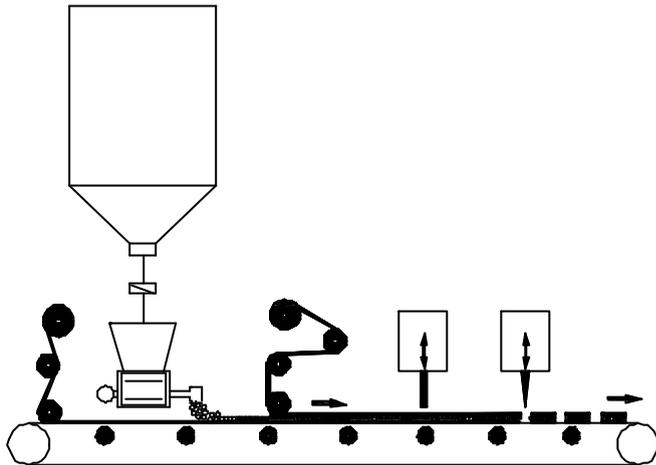


Superabsorbant Feeding for Diaper Production with Loss-in-Weight Feeders

Application Light Industry



Modern diapers have a layer of agglomerated powder between the fabric layers, such as superabsorber (SAP), binding the moisture. In the described plant, the SAP is fed into the fabric layers of the diaper.

Principal plant sections:

- Roller bearings for the various fabric types with pre-feeder for feeding into the roller conveyor
- SAP storage in day hopper
- Assembly of cylinders for transport of fabric
- Loss-in-weight feeder with vibro feeder for even SAP application
- Closing station for closing the coated cloth
- Cutting station for separation of the individual diapers
- Packaging station

The fabric layers pass through the process with high speed (several m/s). A specified amount of absorber must be fed onto every diaper (cloth section).

Demands on the SAP feeder:

- Very high feed constancy better than 2% in intervals of 1 to 2 seconds
- High feed accuracy better than 0.5%
- Even SAP application over the entire cloth width

The required high feed constancy and the even spreading of the SAP over the entire cloth width can be ensured only with the use of vibro feeders.

For feeder control, the absorber amount per meter and the cloth speed are preset as setpoints. If the cloth speed differs from set speed, setpoint is corrected.

The loss-in-weight feeder is refilled from the day hopper via a rotary gate.

Potential customers:

Machine manufacturers, i.a.:

- GDM, Italy
- Fameccannica, Italy
- Linostar, Italy
- Mölnlycke, Sweden

Detergent manufacturers, i.a.:

- Procter & Gamble
- Unilever



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