Single and multiple station winders and unwinders and Accumulators
Single and multiple station unwinders and rewinders

Single- and multi-station unwinders and rewinders are mainly used in finishing and converting processes of flat webs. The reel change is done either manually at machine stop or - at a double station winder - with an automated reel change system.

At manual reel change an accumulator can be introduced for a continuous web feeding to or from the production line. The unwind or rewind stations can be either center driven or surface driven, depending on the products requirements.

Drive/Brake concepts
- unwinding stations are equipped either with a pneumatic brake or a regenerative brake
- Depending on the material requirements reel is either braked/driven from the center or from the surface

Reel support
- Reel support with winding shafts in clap flange bearings or in pneumatically operated chucks
- Shaft-less support via expanding chucking heads (core chucks)
- Cantilevered mandrels depending on the reel weight
- Hydraulically or motorized reel lift-in or reel deposit

Reel change
- Splicing tables for a web splice after the unwind
- semi-automatic or automatic reel change systems at multiple station unwinders or rewinders.

Additional equipment
- Tension control system via dancer roll or load cell
- Driven pull rolls for web transport
- Reel feeding carriages or reel unloading carriages

Technical characteristics
- Reel support shaftless or with winding shafts
- Unwinders with pneumatic brake or generator brake
- Unwinders braked from the center or from the surface
- Center drive at rewinders
- Individual adaption to the production requirements
Accumulators

In case the production process requires a continuous operation, adequate equipment for changing the reels during the unwind or rewind process can be provided. SOMATEC offers the most versatile accumulator designs and sizes. The accumulator carriage can either be pneumatically driven or motorized and either will work from bottom to top or vice versa. The comb design of the accumulator rolls enable an easy thread-in of the web during start-up of the production line.

Drive concepts
- Roller carriage is either pneumatic or motor driven

Extensions / Options
- Driven pull rolls arranged at the inlet and/or outlet sides of the accumulator
- Edge guiding frame at the accumulator outlet side
- Multiple loop systems for a very compact design at high accumulator capacities

Technical characteristics
- Capacity from a few meters up to 200 m (660 ft)
- Accumulator carriage driven pneumatically or motorized
- Comb roller design for an easy web thread-in
- Working direction either from bottom to top or vice versa

- With pneumatic driven roller carriage controlling of the following pull rolls via actual position of the roller carriage
- With motor driven roller carriage mechanically or pneumatically weight compensation of the roller carriage for sensitive web control
Our product range

- In-line and off-line unwinders and rewinders
- Re-reelers / Slitter-Rewinders
- Accumulators
- Reel handling equipment
- Winding components

Our services

- Consulting
- Technical development
- Project engineering
- Design and manufacturing
- Assembly and commissioning at SOMATEC and at customer's site
- Complete automation and integration within new or existing lines
- Retrofitting of existing machines and lines

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