

Re-reelers / Slitter-Rewinders and Short roll winders



The world
of winding

SomaTec

Re-reelers / Slitter-Rewinders

For many different production tasks unwinding and rewinding of flat webs like paper, film or non-woven is necessary.

SOMATEC Re-reelers and Slitter-Rewinders offers individual concepts which are tailor made to your application. Our specialists will develop innovative solutions based on their know-how and adapt them to the individual product and request.

Therefore different possibilities for the reel support at the unwinding side and the rewinding side are available. And many options for the web converting and/or inspection between unwinding and rewinding can be used.

All solutions shown here are therefore examples for the different applications and configurations of SOMATEC Re-reelers and Slitter-Rewinders.

Unwinding and Rewinding

The following solutions are possible:

- Reel support with winding shaft or shaft-less with expanding chucking heads
- Hydraulically moved or motor-driven loading or unloading of the reel
- Pneumatic brake or regenerative brake at the unwind.



Slitter-Rewinder for paper and film under clean room conditions



2-station re-winder with friction shafts

- Edge guiding or steering system either by sideways movement of the unwind or by a pivoting frame
- Splice table for a safe web splicing after the unwind
- Multiple web winding - depending on the material type - on one common shaft or two friction winding shafts

Web converting and inspection

A multitude of devices are available and can be used, e.g.:

- Edge trimming and slitting devices with different cutting principles
- Web inspection units
- Auxiliary winding stations for laminating/de-laminating and for winding of scrap material
- Web pre-treating devices
- Defect detection systems

Handling devices

These are for example:

- Web thread-in devices
- Reel loading or unloading carts
- Winding shaft handling systems

Technical characteristics Re-reelers and Slitter-Rewinders

- Reel support shaft-less or with winding shafts
- High rewinding speeds
- Unwind stand with pneumatic brake or regenerative brake
- Individual adaption to the respective case of operation
- Versatile options



Re-reeler for composite material

Short Roll Winders

Also the SOMATEC Short Roll Winders follows our philosophy that the individual layout for an optimum adaption to the products to be wound and to the customer requirements have to rank first.

Depending on the branch and the type of material, different concepts and configurations are available, e.g. for "bubble-free" winding of adhesive films, or winding of heavy roofing material.

Besides the converting to short rolls as well as slitting of multiple webs can be carried out at the same time – for an even higher productivity in a one step operation.

In-line or off-line operation

No matter process requirements allow that finished rolls can be wound directly in-line within a production line or winding of short rolls has to be done by unwinding and rewinding in a separate operation,

for both production modes SOMATEC offers the respective solutions:

- Direct winding of short rolls, depending on material and production speed with intermediary accumulator
- Rewinding of jumbo rolls to short rolls with additional unwinding stand in front of the short roll winder. The unwind

Technical characteristics Short Roll Winders

- Automatic rewinding of short rolls beginning from 50 mm (2")
- Short cycle times
- Arrangement In-line or Off-line with separate unwinding stand
- Automatic handling of finished rolls and cores
- Individual adaption to the respective case of operation



can be either equipped with roll support or the roll can be unwound with an unwinding shaft. To increase performance an accumulator between unwinder and short roll winder can be provided.

Wide variety of materials

SOMATEC Short Roll Winders are able to process a wide range of materials:

- Plastic films, from rigid to soft film types, with and without adhesive coating
- Paper of different weights
- Non-woven and composite materials

Variable winding concepts

Depending on the material and the application the following configurations can be provided for the short roll rewinders:

- Support-roll rewinder
- Two-station turret rewinder
- Three-station turret rewinder

The automatic roll change can be done non-stop at full production speed or with a short stop of the web in combination with an accumulator.

High degree of Automation

Short cycle times and a high output determines an adapted handling concept.

SOMATEC offers perfect integrated automatic roll handling systems and core feeding devices. If necessary these units can be extended by automatic roll taping devices and labelling systems. Due to our know-how we also integrate the short roll winder perfectly into the downstream roll handling process e.g. for packaging, storage or direct shipment.

The sophisticated control system of the entire winding machine relieves the operator and ensures the high efficiency of the SOMATEC Short Roll Winders.



Unwinding stand for off-line operation

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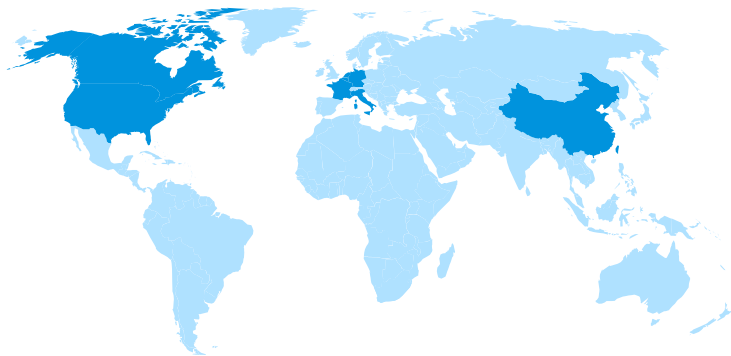


Our product range

- In-line and off-line unwinders and rewinders
- Re-reelers / Slitter-Rewinders
- Short roll winders
- 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
- Complete after-sales service



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