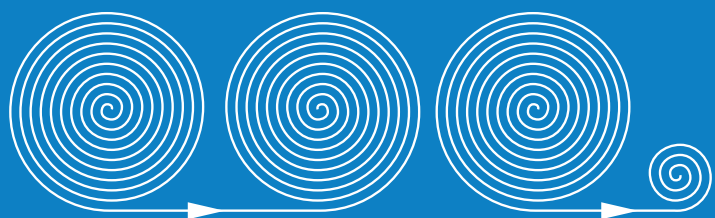




The world of winding



Re-reelers and
slitter-rewinders



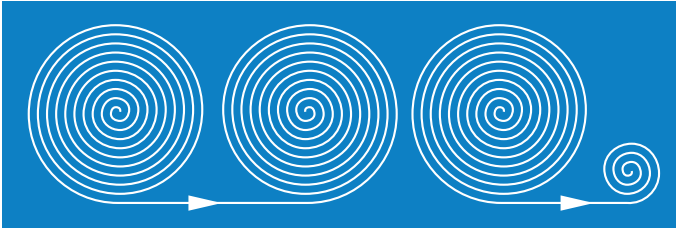


The SOMATEC range

- In-line and off-line winders and unwinders
- Re-reelers and web processing machines
- Accumulators
- Finished reel and winding shaft handling
- Single winding components

What SOMATEC offers

- Support
- Technical development
- Project planning
- Design and manufacture
- Assembly and commissioning at SOMATEC and on site, worldwide
- Full automation and integration into new or existing machinery
- Modification and retrofitting of existing machinery and equipment
- After-sales service



Re-reelers and slitter-rewinders

Re-reelers

Customised examples | [Page 4](#)

Slitter-rewinders

Customised examples | [Page 6](#)

Options

Optional features | [Page 8](#)

Numerous finishing and processing tasks require materials that come in web form, such as paper, film and nonwovens to be wound. Our experts draw on decades of experience to create customised solutions that are perfect for the product and areas in which it's used.

Which is why you can count on SOMATEC re-reelers and slitter-rewinders to be very reliable and operate efficiently.

The solutions shown here are examples of a wide range of potential applications and configurations.

Please contact us if you would like a demo, or some advice.



Re-reelers

SOMATEC re-reelers (winders and unwinders) stand apart for their robust design, superior reliability and perfect adaptation to the requirements of the machinery as a whole.

- Reel support via a winding shaft or in a shaftless form via expansion chucks
- Unwinding with pneumatic or regenerative braking
- Multi-web winding on a shaft or two friction winding shafts depending on the material
- Web splicing table on the unwinder



Advantages

- Better reel quality due to rewinding
- Superior variability due to different concepts for reel supports, brakes and multi-web winding
- Fast rewinding speed and exceptionally reliable processes at the same time
- Optional inspection sections for optical or fully automatic inspection of the web of material
- The basic machines can come with various optional functions (EPOS slitting system, lift truck, web edge control, automatic winding shaft preparation, in-feed bar – see pages 8–11)

Splicing table



Shaftless winding station





Slitter-rewinders

SOMATEC slitter-rewinders stand apart for their robust design, superior reliability and perfect adaptation to the requirements of the machinery as a whole.

- Reel support is shaftless or with winding shafts
- Precise slitters for trimming and/or in-line slitting

Winding method depends on the material:

- On a winding shaft
- Like a chess board with friction winding shafts
- Single reels with their own drive

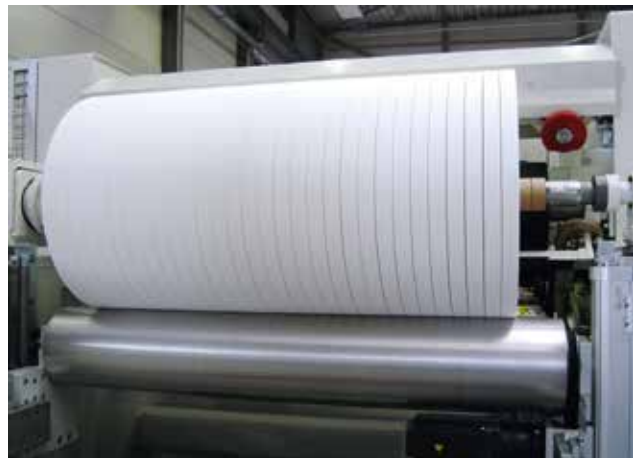
Advantages

- Superior variability due to different concepts for reel supports, slitters and winding methods
- Superior automation on request
- Optional pre-treatment devices
- Optional auxiliary winding points for laminating/delaminating and winding faulty sections
- Optional inspection sections for optical or fully automatic inspection of the web of material
- Optional defect detection system
- The basic machines can come with various optional functions (EPOS slitting system, lift truck, web edge control, automatic winding shaft preparation, in-feed bar – see pages 8–11)

Format roller for consistent gap distances



Contact central winding station with support roller



Multi-web shear cut



Options

Our basic machines are designed to handle the production environment concerned.

What's more, our optional features mean further potential for new machines and retrofits:

- Higher productivity
- Automation to save costs
- More flexible machinery

Slitters with the EPOS automatic positioning system



Setup times are costly, particularly where small batch sizes are concerned.

SOMATEC'S EPOS automatic knife positioning system puts an end to that: Fully automatic adjustment of the upper and lower knives minimises preparation time for each new job.

- Positioning of shear and crush cut system
- Positioning of upper and lower knives
- Standalone capability: So it can be retrofitted to existing systems
- Low setup times
- Easier maintenance through digital wear management

Practical choice of cutting parameters

- Interface to ERP systems
- Creation and management of recipes
- Manual input of the number and width of webs

Winding shaft preparation with automatic application of adhesive



When production speeds are fast, reel changes often lag behind. SOMATEC'S automatic winding shaft preparation lets you catch up: Time's saved during each reel change and superior process reliability is maintained.

- Time's saved during each roller change
- Exceptionally reliable processes thanks to good preparation
- Safety is higher because staff spend less time in areas with a risk of explosion

Custom configurable

- Different types of tape and adhesives possible
- Preparation with adhesive strips or spirals possible
- Creation and management of recipes
- Manual input of the number and width of cores
- Can be linked to an automatic slitting system

In-feed bar



Web in-feed devices

Fully automatic infeed of the web with the aid of a chain-driven infeed bar.

- Better ergonomics and machine safety
- Quicker and very reliable
- No adhesive required. Web of material just has to be placed over the in-feed bar

Swivel frame for guiding the web of material



Web guiding systems

Perfect web guiding due to web-edge control. Control is carried out via a swivel-mounted frame by moving the unwinder.

- Exact positioning of the web for downstream processes
- Alignment either to the centre of the web or an edge

Fully automatic unloading cart



Reel handling

More efficiency when handling the finished reels on the winder and during downstream processes.

- For manual removal with a crane
- With a fully automatic unloading cart
- With an automatic swivel mandrel and removal by robot
- Via an interface to packaging lines downstream
- By automatically pushing off the finished reel

The adhesive tape being applied to the winding shaft



Automatic winding shaft preparation

Shorter cycle times due to automatic winding shaft preparation.

- Time is saved during each reel change
- Very reliable processes due to consistently high-quality preparation
- Safer because personnel need to spend less time in hazardous areas
- Various belt types and adhesives possible
- Creation and management of recipes
- Can be connected to an automatic slitting system



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