

# Automatic Turret Winder 1500 S

with shaftless roll support



The world  
of winding

SomaTec

# Automatic Turret Winder AW 1500 S

## Special features

The Automatic Turret Winder AW 1500 S offers the following features:

- Winding of reels up to 1,500 mm (60") diameter
- Reel weight up to 3,500 kgs (7,700 lbs)
- Shaftless reel support beginning at 76 mm (3") core inner diameter
- Automatic reel change at full production speed onto prepared cores
- Contact roll arrangement for contact winding mode and gap winding mode

Even this machine concept is applicable to all winding tasks, where shaftless winding of flat webs is necessary, the primary application of this winding machines are printing lines respectively the paper manufacturing and the paper converting industry.

Whether the AW 1500S will be



integrated into a newly designed production line or into a new designed plant, reel quality is always paramount! Therefore the winder can be equipped with driven rider rolls for optimisation of the winding quality during the indexing process as well as with slitting devices for edge trimming.

Individual handling devices are also available.

No need to say that this machine concept can also be perfectly adapted to individual requirements. In this case our specialists are eager to develop innovative solutions based on your and their longtime know-how.

## Shaftless Roll Support

The core chucks of the Automatic Turret Winder AW 1500 S are motorised for positioning and allow a wide chucking range of 350 mm (13.5") per each side. Because of this long stroke, cores with a length difference of up to

700 mm ( 27" ) can be supported without refitting. Easy to change chucking heads are used to support cores with different inner diameters. Chucking is mechanically by torque, centring automatically by the axial clamping force of the chucks.

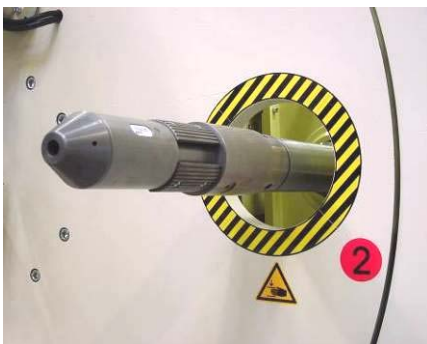
## Technical Data

Reel diameter:	max. 1.500 mm (60")	R
Material width:	max. 2.500 mm (98")	S
Other dimensions a		

roll is compensated by a counterweight in order to achieve a defined force on the surface of the wound reel.

## Rider Rolls

For consistency of the wound reel quality during indexing, motor driven rider rolls are available. Before the indexing movement starts the correspondent roll is laid onto the winding reel. Then the rider roll indexes together with the wound reel in unloading position. The lay-on pressure is pneumatically actuated, where the weight of the



## High Speed Reel Change System TAC

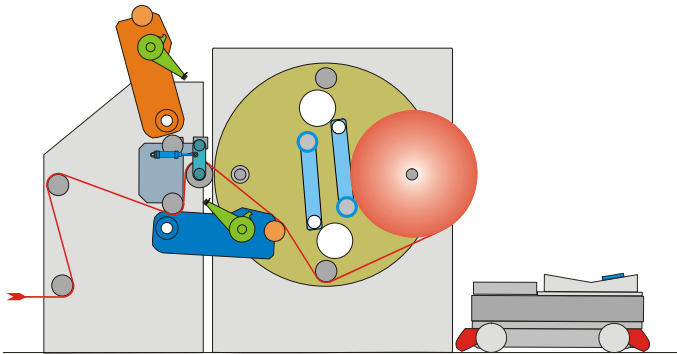
The automatic Reel Change System TAC is characterized by a rectangular cross cut at a web speed of maximum 600m/min (2000 fpm). This is achieved due to an electromechanical preloading of the serrated cross cutting knife. Lay-on of the web is performed automatically onto cores, prepared with adhesive tape. The solid design combined with minimum wear ensures a high production efficiency.

The Reel Change System TAC can be mounted either from top or from below in order to wind the face of the web alternatively inside or outside of the reel.

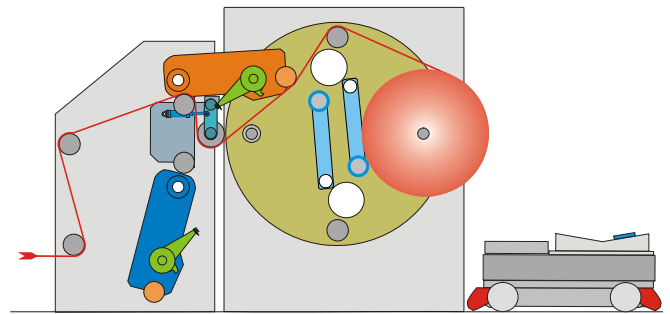
To reach highest flexibility in the production process, the winder can also be equipped with one top and one bottom mounted Reel Change System TAC.



Roll change system TAC short before cross cut



Reel change process with lower TAC-system



Reel change process with upper TAC-system

Reel weight: max. 3.500 kg (7,700 lbs)  
 Speed: max. 600 m/min (2000 fpm)  
 More available on request

## Automatic Roll Handling

Upon request, an automated unloading of the finished reel can be offered, featuring:

- ▶ motor driven unloading cart with an integrated, hydraulically operated, lifting table
- ▶ Capacity of up to 3.5 tons (7,770 lbs)
- ▶ Automated movement to a transfer position for further processing
- ▶ Tiltable table for further reel processing
- ▶ fully automated unloading cycle
- ▶ Operator intervention minimized to core loading

**SOMATEC's ultimate ambition is to suite the customers personal ideas and meet his goals by either combining the machine with existing or new devices.**



State-of-the-art operation via color panel and/or hardware buttons



Motor driven finished reel unloading cart for automated roll handling

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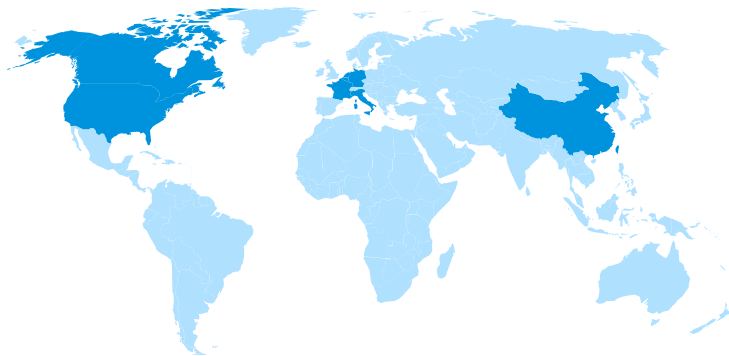


## Our product range

- 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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