

ALPHAREEL

Unwinds, rewinds

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The ALPHAREEL –
to meet any unwind or
rewind application.

Twin unwind

Back to back feeding of two webs into a laminator or sheeter

- Rolls can be changed independently or at the same time. ■ Rapid roll change with shaftless chucking. ■ Floor pick up from roll carts.
- Independent closed loop tension control for each unwind. ■ Independent edge guiding.



Shafted rewind



Rewind for technical fabrics

- Integrated accumulator for non-stop operation.
- Automatic end of roll cut off. ■ Winding on to a removable cart. ■ Automatic engagement of the winding mandrel drive system. ■ Programmed tension control with closed loop and dancer feedback. ■ Edge guiding by pivoting frame with ultrasonic edge sensing.

Driven unwind for technical fabrics

- Shaftless roll chucking. ■ Powered roll loading direct from a roll cart. ■ Two independent tension zones, each with vector controlled motor and pneumatically set dancer control.
- Special threading position for dancer assemblies makes for easy, rapid threading of wide webs.

Driven shaftless unwind



Cantilevered unwind



Cantilevered unwind for quick roll change

- Constant air supply and automatic inflation of the shaft. ■ Closed loop tension control with load cell feedback and servo drive. ■ Automatic electromechanical edge guiding with ultrasonic sensing.

ALPHAREEL

Unwinds, rewinds

ALPHAREEL unwinds and rewinds efficiently process a wide range of web materials. They are normally supplied with their own control system and can run independently or be integrated into a production line.

The ALPHAREEL range can be supplied with accumulators for non-stop operation. ALPHAREEL winders can handle reels up to 2.5 metres diameter and 3 metres wide at speeds of up to 600 metres/minute.

Tension control options

Closed loop tension control with load cell feedback.
Closed loop tension control with dancer operation.
Open loop tension control with automatic diameter compensation.
Pneumatic brake, vector drive or servo motor.
Multiple tension zones.

Edge guiding options

Manually operated power adjustment.
Fully automatic photo-electric guiding on printed line or edge.
Fully automatic ultrasonic guiding on edge of transparent or opaque webs.
Shifting of roll or guiding with pivoting roll frame.
Fully automatic positioning of sensing heads.

Loading options

Air inflated shafted.
Shaftless chucking with air or mechanically expanding chucks.
Fixed height for manual or crane loading.
Powered arms for loading and unloading reels.
Roll loading direct from floor or roll cart.

Web transfer options

Manual transfer by operator.
Non stop flying splice transfer.
Automatic splicing with adhesive tape, glue or thermal bonding.
Core attachment, with or without adhesive.

Web accumulator options

Air loaded.
Motor driven with dancer or load cell position control.
Straight through threading path on all units.
Cantilevered on narrow webs.

Special options

Unwinds with integrated rewind for interleave.
ATEX rating.
Clean room rating.
Food grade components.

Other winders from Alpha Converting



The ALPHAMATIC range of winders offer fully automatic roll closure and restart for a wide range of products.



General purpose ALPHATRIM for winding edge trims at speeds up to 600 m/minute.



The ALPHASPOOL range traverse wind narrow width tapes for longer web runs and more stable packages.



Alpha Converting focuses on web handling technology and is a leading producer of high quality machinery for the converting industry.