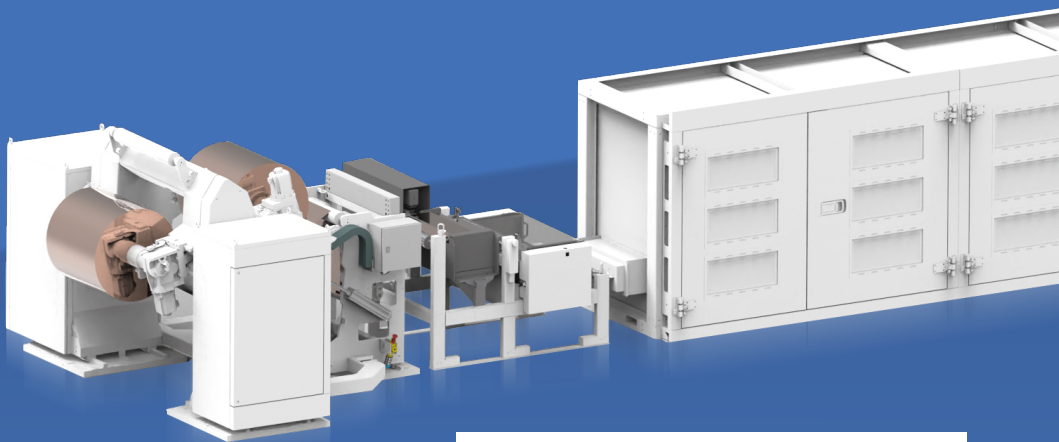
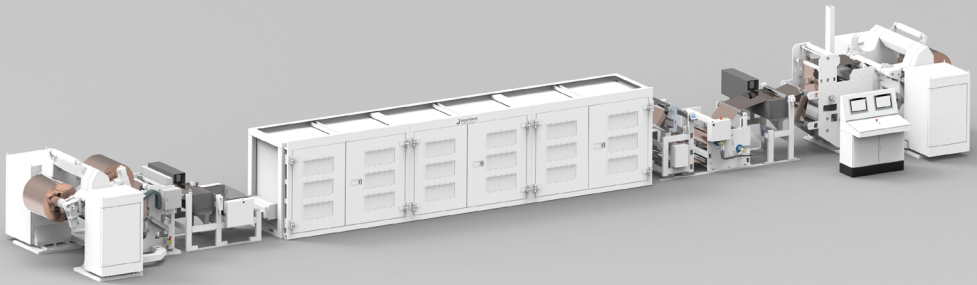




R2R Post Drying & Triplex DryStar Dryer

Down to 150 ppm RMC

R2R Post Drying



EFFICIENT POST DRYING OF ELECTRODES FOR LI-ION BATTERIES

**Optimized drying.
Intelligent control.
Maximum productivity.**

The Triplex DryStar Dryer is a roll-to-roll post drying machine specifically designed to meet the high quality standards required for post drying electrodes prior to cutting in lithium-ion battery production.

Optimized drying technology

- Efficient energy consumption thanks to optimum ratio of convection and IR radiation.
- Precision-controlled drying process - resource-saving minimum fresh air volume based on the company's own drying simulation software.

Intelligent temperature monitoring & control

- Precise control: avoids hot spots and distributes temperature evenly.
- Adaptive control: adjusts perfectly to different material characteristics.

Non-stop production & high efficiency

- Integrated unwinder and rewinder: enable continuous operation for maximal line availability.
- Dry room design: meets demands of controlled production environments.

Your advantages at one glimpse:

- Increased product quality with optimized drying.
- The high air circulation rate ensures energy efficiency.
- Maximum line availability through non-stop operation.
- Future-proof technology for modern battery production.

Technical Data

Material

Calendered electrode coated foil
(single or double side coated)

Foil thickness

Anode: 12 μm

Cathode: 6-8 μm

Coating

Anode: 50-200 g/m^2

Cathode: 70-200 g/m^2

Material width

from 300-700 mm*

Mechanical speed

100 m/min**

Coil diameter

1,200 mm

Max. coil weight

1.5 †

Dryer temperature max.

200°C (392°F)

Length inside dryer

Up to 30 m***

* other widths on request

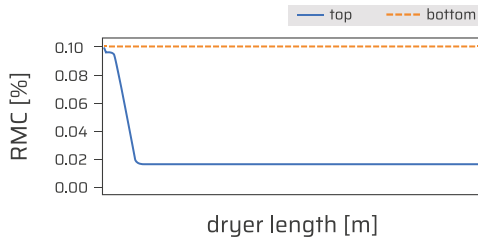
** depends on used material parameters

*** based on company own simulation program

Put your trust in
efficiency, precision,
and **reliability!**

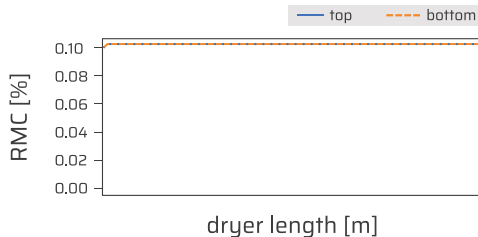
In-depth process knowledge required for effective dryer design

An increase of the dew point of process air from **-40°C to -25°C**, showed significant impact on the content of residual moisture.



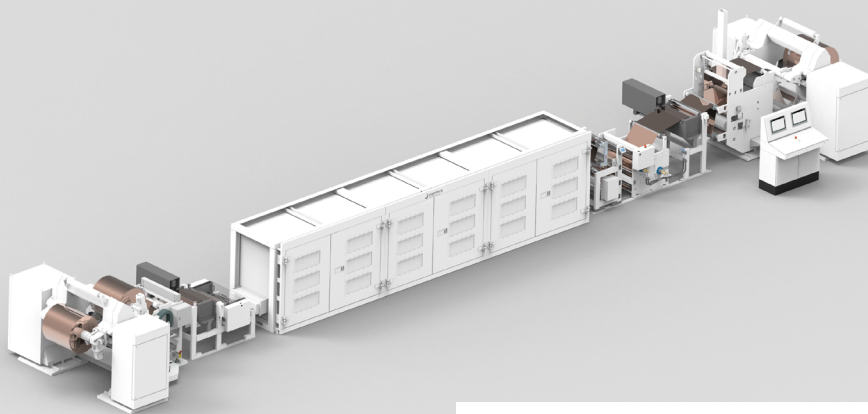
Temperature (T): 23°C
Relative humidity (RF): 0.5%
Dew point (Tdp): -40°C

At a dew point of -40°C,
the **residual moisture**
decreases to 200 ppm



Temperatur (T): 23°C
Relative humidity (RF): 3.0%
Dew point (Tdp): -25°C

At a dew point of -25°C,
the **residual moisture**
remains constant at 1,000 ppm



R2R Post Drying

Key features

- **Non-stop production** - efficient, seamless, continuous workflow, without reduction of speed.
- **Single or turret winder** - adapted to customer needs.
- **Inline measuring system** - precise quality monitoring.
- **Embedded quality systems** - tailored to customer demands, available for testing with customer materials.
- **Pulling station** - with cooling / chill roller for optimal processing.
- **Center Position Control** - for low tension material handling.



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If you are interested or have any questions
about calendering, please contact

Andreas Buttenborg

Key Account Management

✉ andreas.buttendorf@jagenberg-converting.com

☎ +49 170 9882289