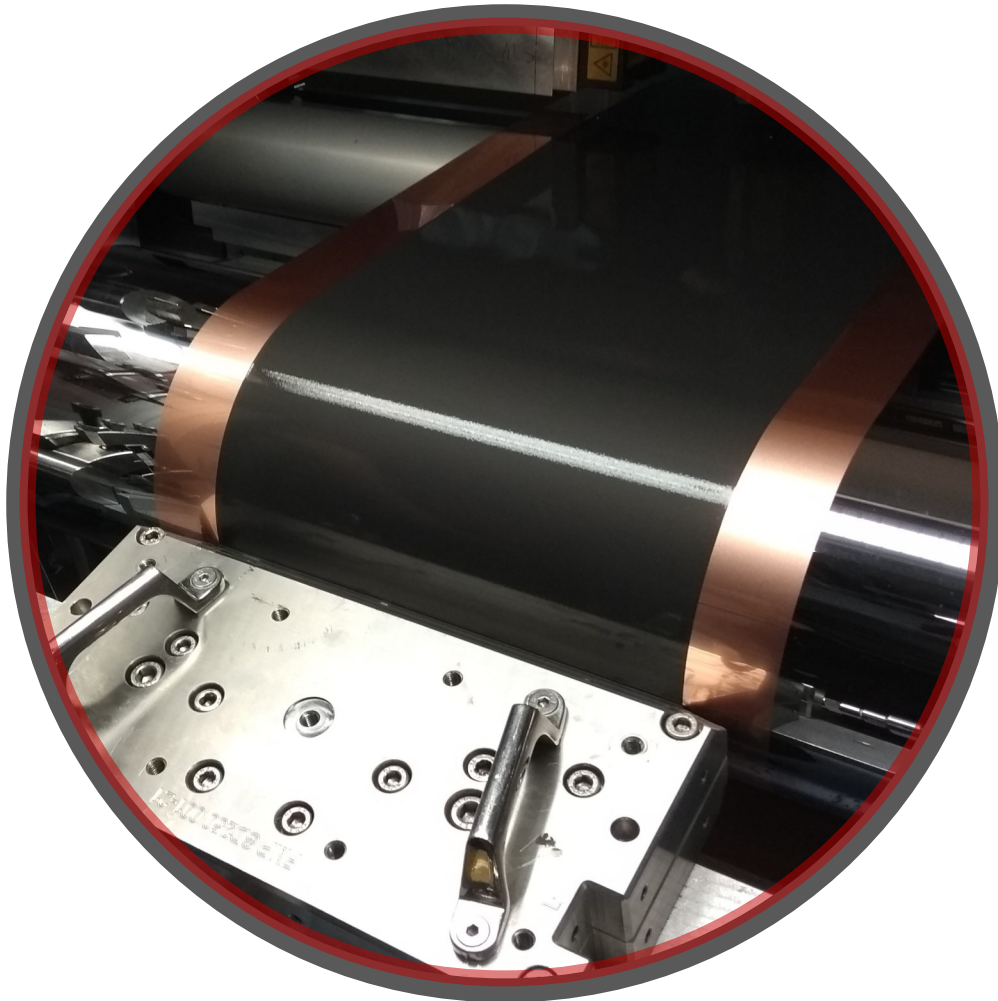


# Battery Coating & Drying

FMP TECHNOLOGY



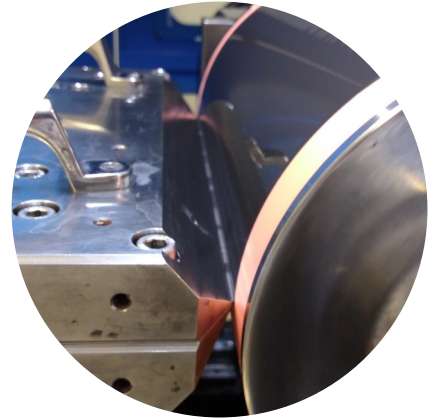
Precise

High-quality

Fast

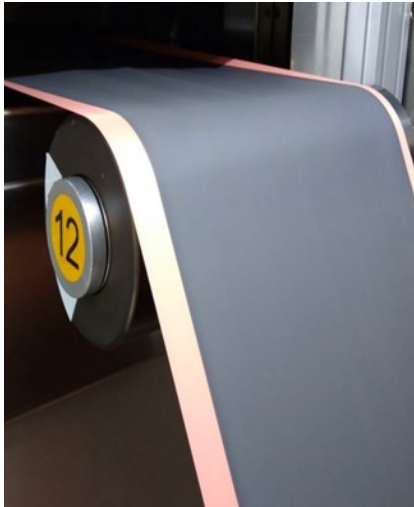
# Challenges

- Particle-loaded suspensions
- Drying of thick coatings
- Cracking and binder migration
- Very uniform battery layers needed



## The challenges you face which we can solve:

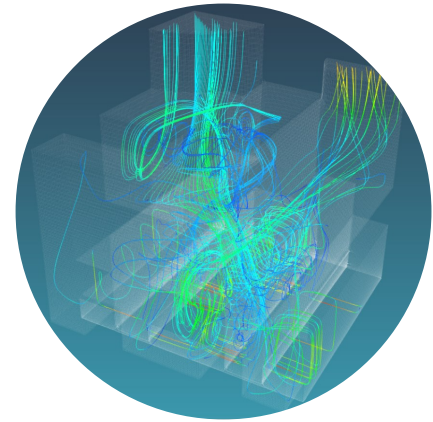
In order to reduce production costs, increase production speed and increase battery capacity and cycle stability, it is necessary to **increase the coating thickness** and the **coating and drying rate** while **avoiding coating defects**. Any coating defects will decrease battery performance. Furthermore, **very homogenous and high**



**cross-web coating distribution** (leading to a uniform layer thickness) are required for good battery performance (e.g. good stackability, high energy density and minimal material waste). These requirements can be fulfilled with the **most advanced coating and drying technologies** from FMP Technology. Our experience in this field will help us to overcome those challenges and improve your process.

# FMP Solutions

- Custom-designed systems to meet your needs
- Double-sided & intermittent coating possible
- Slot-die with excellent cross-web accuracy
- Gentle, uniform, yet fast drying technology



## Coating:

FMP has experience coating particle-loaded suspensions and successfully developed and installed coating solutions for different clients in the battery sector. Thanks to our excellent process know-how, FMP can **customize the entire coating system to meet your needs** and provide optimal results in terms of process productivity and product quality.

## Drying:

FMP has developed an impingement-free drying nozzle to **uniformly dry thick, crack-free coatings** at **high drying speeds**. **High, uniform energy input** results in **even temperature profiles** in the dryer and enables shorter dryer lengths. Floation operation is also possible to enable double sided coating & drying.



# Your partner for smart coating & drying solutions

Our **experience** in many different industries, with a focus on battery production, gives us the necessary **knowledge and creativity** to develop tailor-made coating and drying machines. We test, optimize and validate your process at the **FMP technology center**. With our know-how and FMP equipment we are able to:

- Apply **highly precise coatings** with a **high cross-web distribution**
- **Improve drying rates up to 50%** without decreasing product quality
- **Dry homogenously without temperature spikes** to protect the coating
- **Improve coating adhesion** due to **reduced binder migration**

Happy customers with better products and optimized production plants are the result.

## Together we achieve your goals



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