


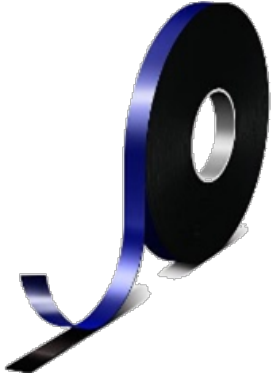


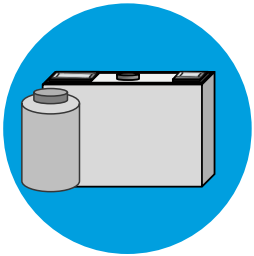
Die-cuts	Spools	Log Rolls	Cut Rolls
Pre-cut shapes of adhesive tape on roll or on sheet	For highly efficient and automated endless application	For various die-cut designs	For flexible individual and aftermarket applications
			

Electrical Insulation

Lamination Of Parts In EVB

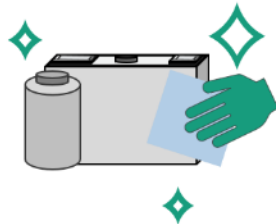


1. Pre-treatment

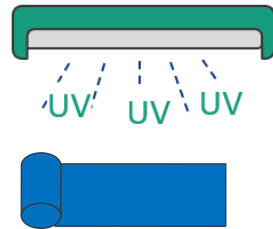


*optional

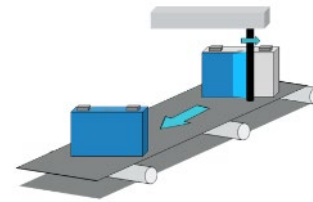
2. Cleaning



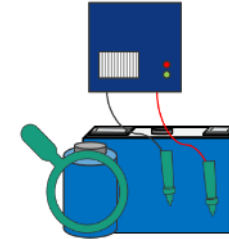
3. Activation



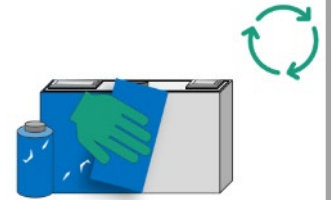
4. Wrapping



5. End-of-line testing



6. Rework



High process speed and yield

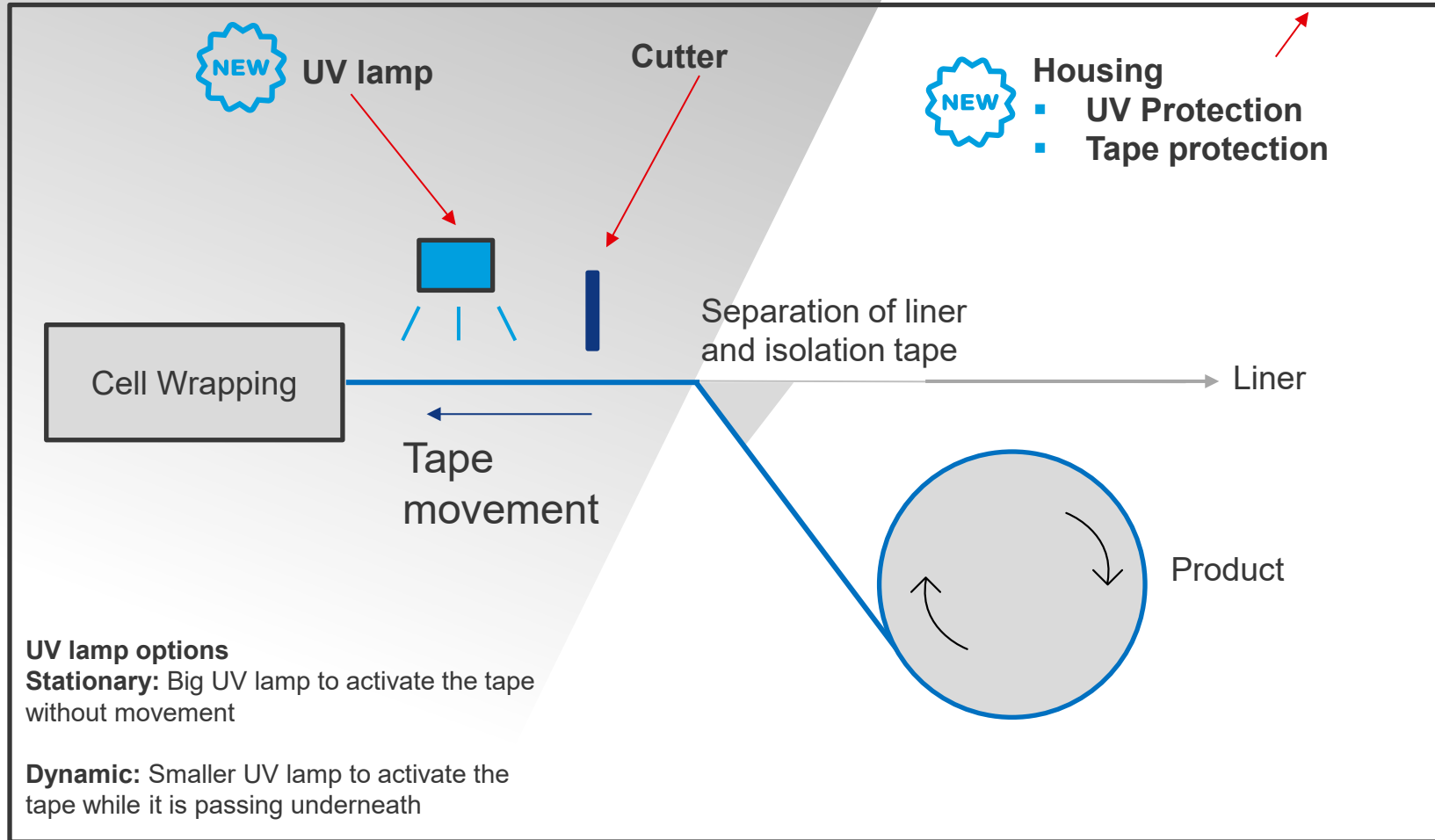
Easy integration concepts for existing wrapping equipment

CW machine suppliers available for immediate trials

Dedicated application process team / support available

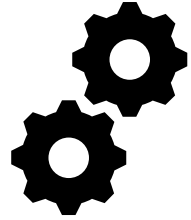
Source: Fraunhofer-Einrichtung Forschungsfertigung Batteriezelle FFB

Equipment for lamination & UV-activation

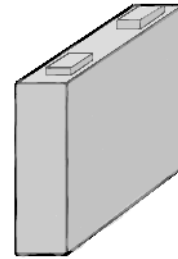


Electrical Insulation

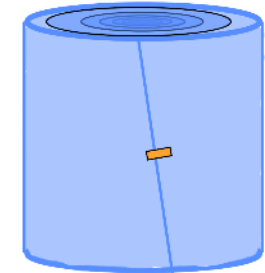
Influencing Factors In The Lamination Process



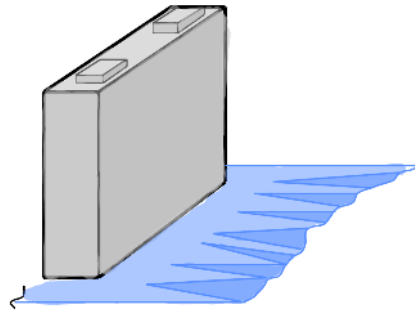
Process



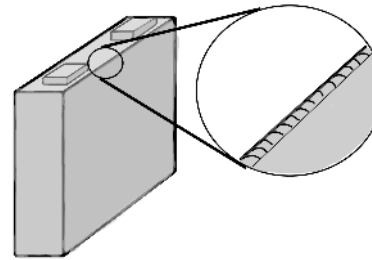
Cell / Substrate



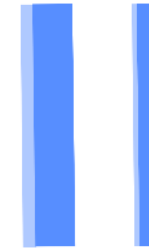
Foils



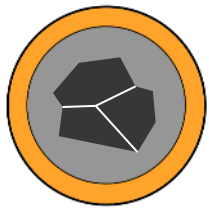
Control of tape



Welding seams / Radius



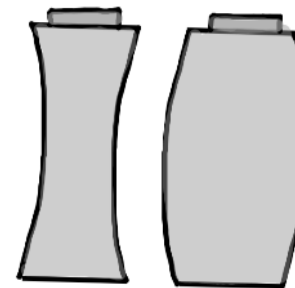
Foil thickness / Adhesive layer



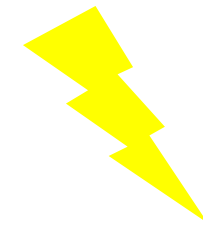
Wrong roll material



Dirt / grease



Geometrie



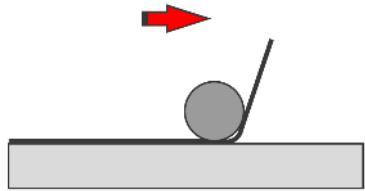
Electro static



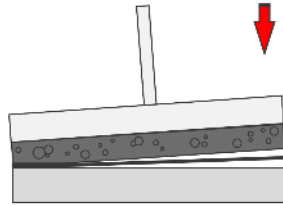
Dirt

Electrical Insulation

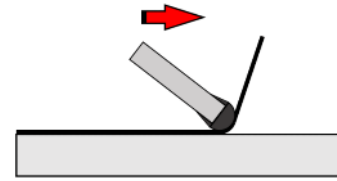
Application Methods



Roller



Stamp



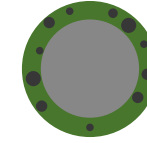
Squeeeges

- Mainly rubber or foam rollers
- Highly recommended

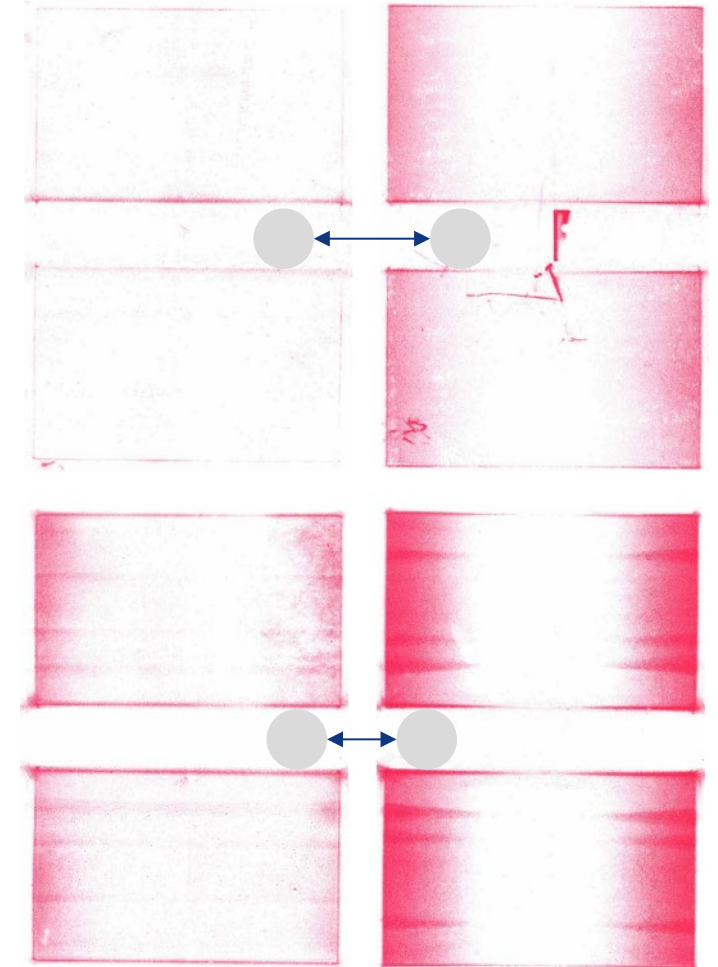
- In some cases a convex shape is required
- High force needed

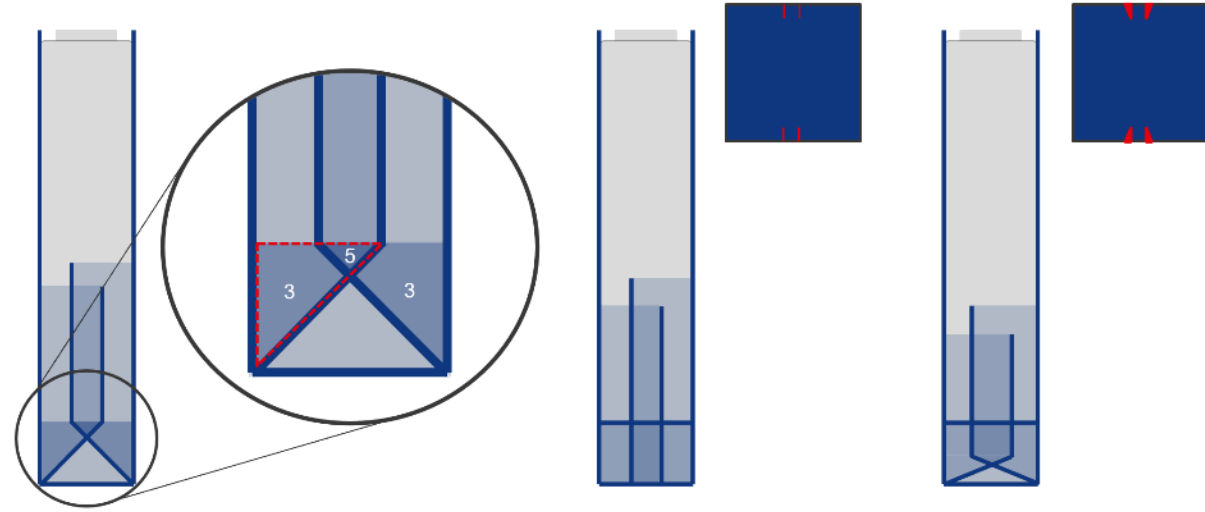
- Danger of displacing adhesive
- If there are contamination, they will be pulled along and cause scratches

Foam



tesa[®]
Rubber





- With cutting
- Lower thickness on the sides
- One cutting step more

