

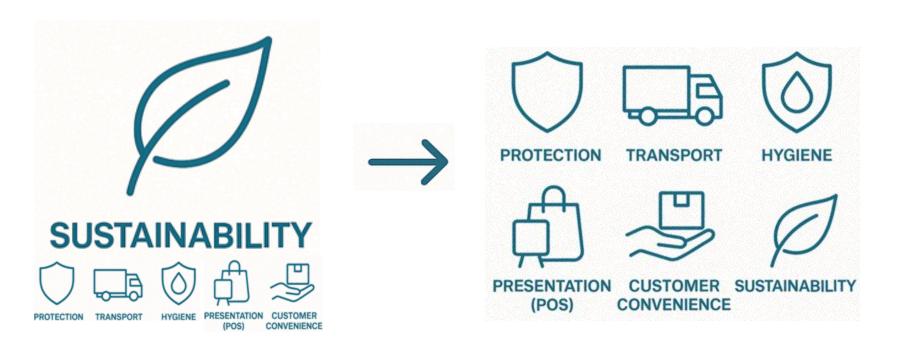
A Member of Brückner Group

## **KIEFEL FIBER PACKAGING**

# TOURNING YOUR SUSTAINABLE IDEA INTO AN ECONOMIC SOLUTION

**DRIVING** YOUR PERFORMANCE

Changed Requirements of Packaging





#### EPR / PPWR Influence



- CO2 Footprint
- Landfill



Refill Packaging



- Can also be compostable
- Paper Recycling up to 80%





#### Cycle of Packaging - Kiefel Supports you in every stage



- Kiefel Supports your cycle with
  - Material R&D
  - Packaging Development / Design
  - Proof of Concept
  - Product validation
  - Scale up solutions



Cycle of Packaging – Kiefel Supports you in every stage

We provide support through dedicated and skilled teams throughout your fiber journey.



#### Start of development – Product Requirements

#### Tub

- High barrier properties
- Complex and deep geometry
- Stackable
- Sealable
- Responsible for shelf live





#### Lid

- Low barrier properties
- Flat geometry
- Stackable
- No sealing, just protection

Available Technologies - find the best fit

#### Wet Fiber

- Flexible in geometry in depth
- Flexible barrier possibilities
- High cycle time
- Control from raw material until
  - final product

#### Dry Fiber

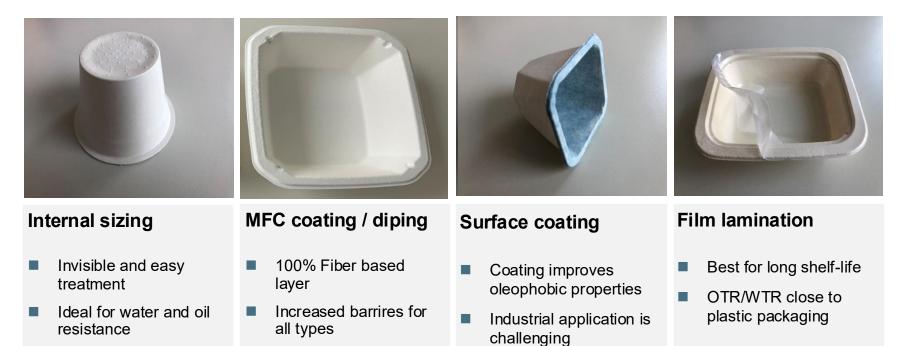
- For easier and flat geometries
- Apply of barrier very complex
- Fast cycle time







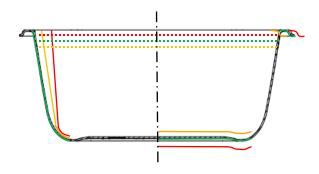
#### Additional impovement of properties







#### Testing the POC prdoucts





Lamination

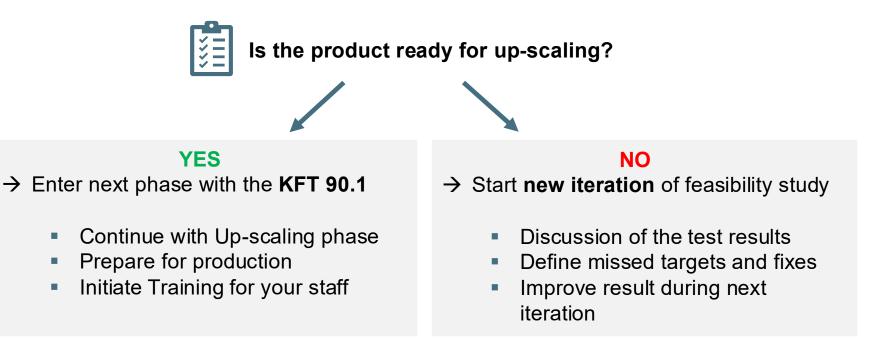
VS.

Coating





Packaging Dialogue Days

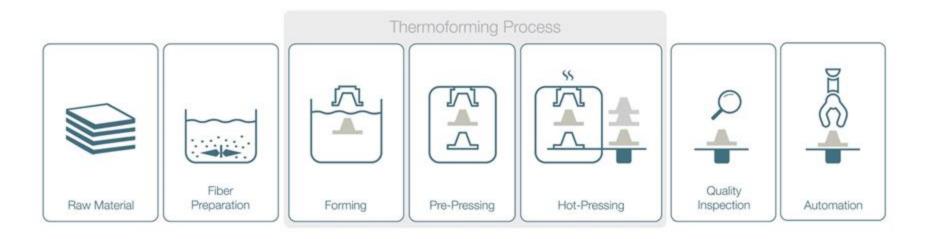


#### KIEFEL TECHNOLOGIES

#### Industrial Solutions – Wet Fiber

Production concepts for Wet Fiber Thermoforming

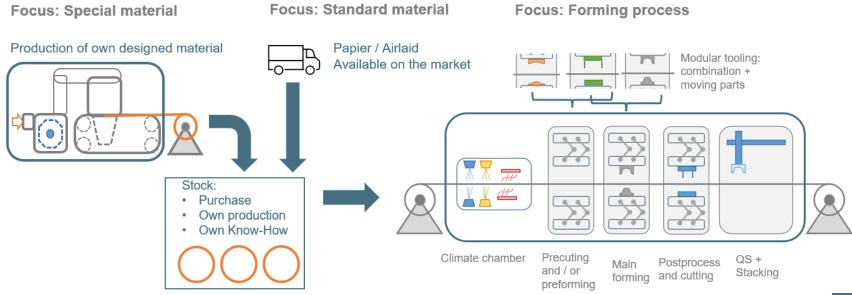
- Material Preparation part of customers responsibility
- Conistency in production 0.8% 1.2%



### Industrial Solutions – Dry Fiber

#### Production concepts for Dry Fiber Thermoforming – Paper and Compressed Airlaid

- Separate process: Material supply and forming machine
- Product focus variation on material and specification



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### **DRIVING YOUR PERFORMANCE**