SIEMPELKAMP
SIZE REDUCTION

SIEMPELKAMP Size Reduction Solutions GmbH & Co. KG

GAB Textile recycling Portugal & Spain | March 2026

Intelligent engineering for future generations.

Footer: Location, Date, Presenter

About us and our history

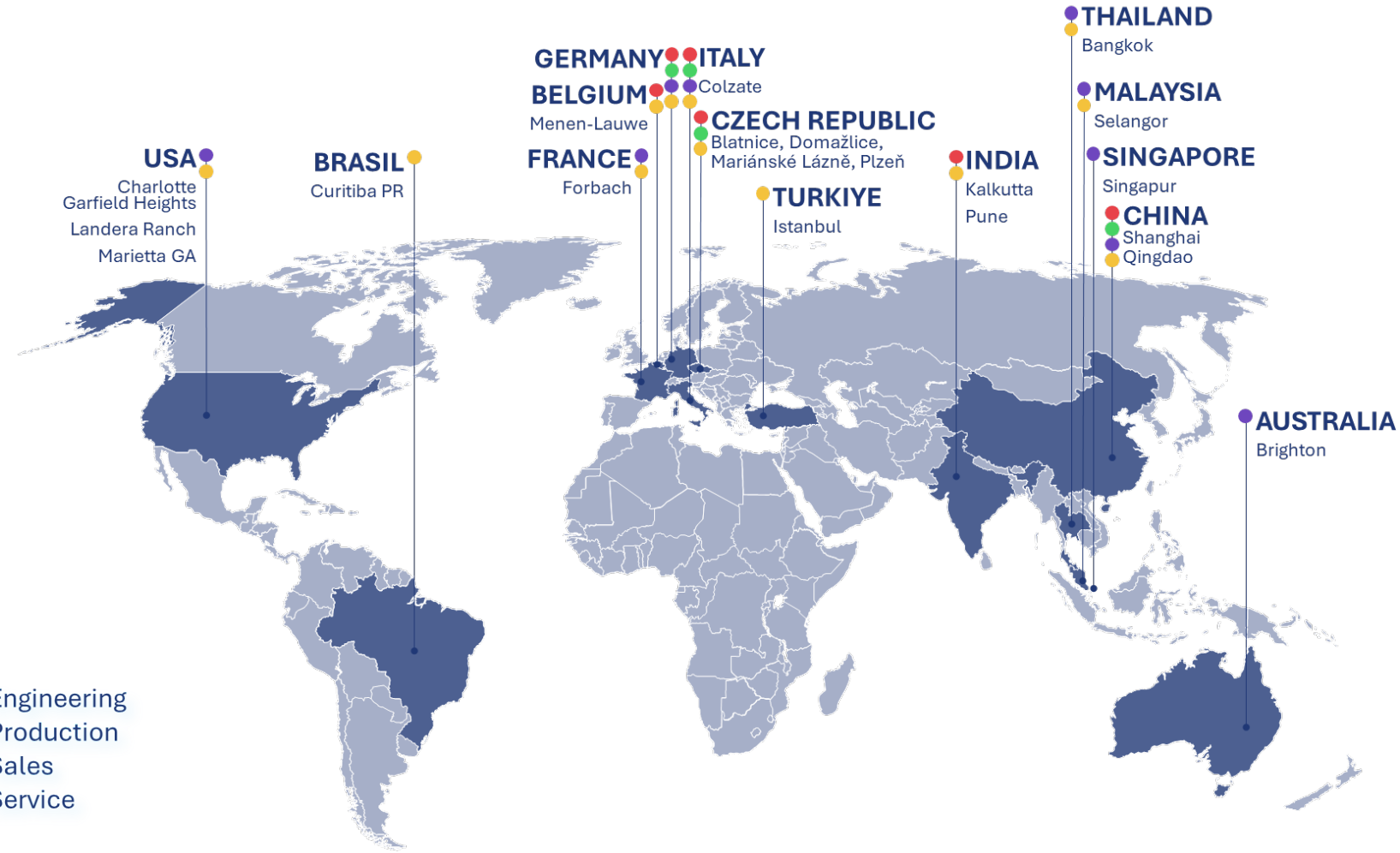
- Former PALLMANN Maschinenfabrik GmbH & Co. KG
- Founded in 1903
- A family organisation for 7 generations
- Approx. 300 employees in Zweibrücken, Germany
- Largest size reduction portfolio
- One of the largest research and development centre for size reduction technology in the world
- In 2017 Original PALLMANN joined the Siempelkamp Group (approx. 3.500 employees)

PALLMANN TOP PERFORMANCE IN SIZE REDUCTION evolved to PALLMANN

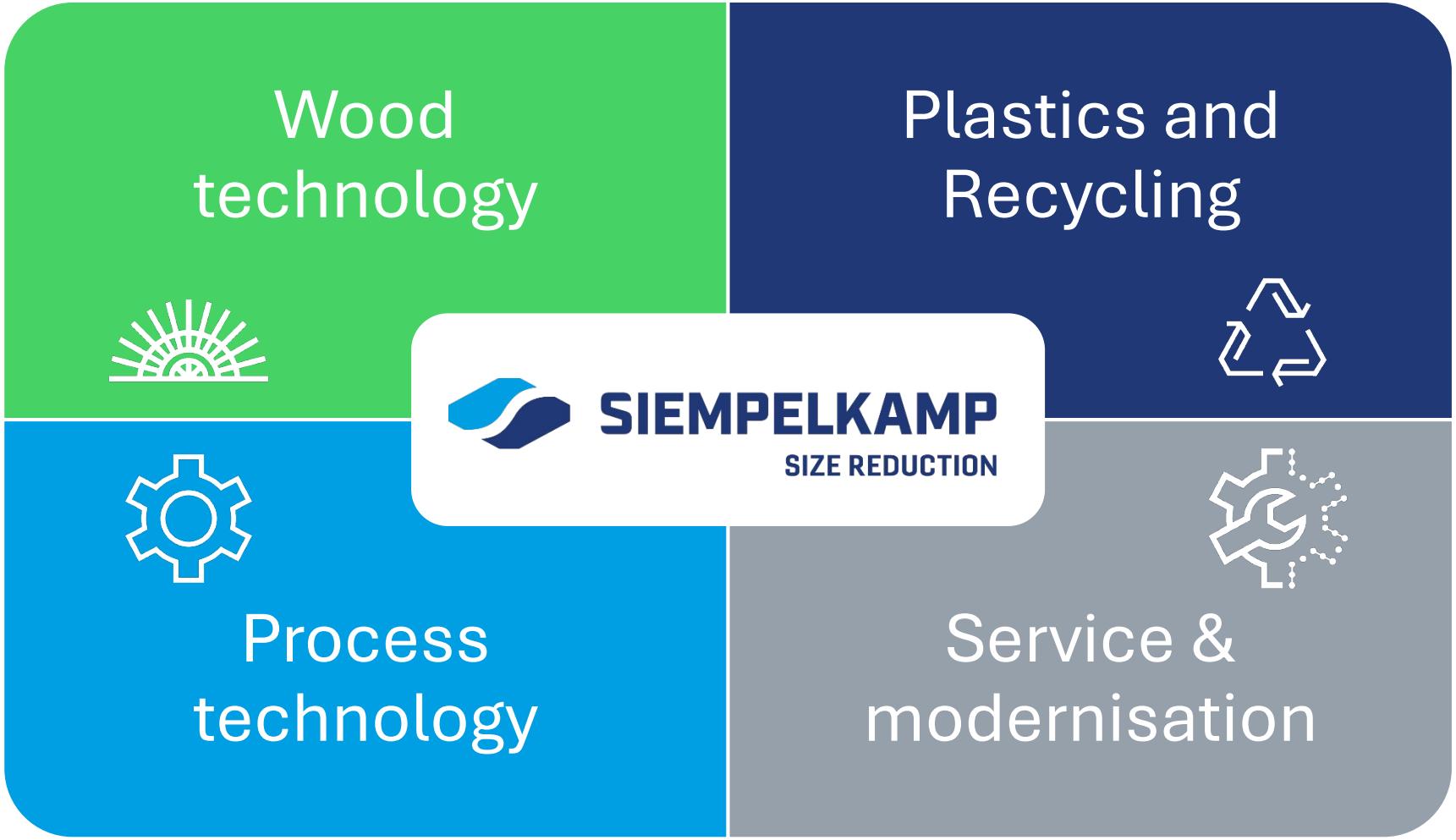
...and has now become:

SIEMPELKAMP SIZE REDUCTION

SIEMPELKAMP Worldwide



Cross-industrial competence



Our solutions for textile & fibers recycling

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We turn your waste into compact free flowing granules with high bulk density or micro-powder : ready to be reused!

AGGLOMERATION

EXTRUSION

PULVERIZING

Agglomeration of thermoplastic Fibers & Textiles

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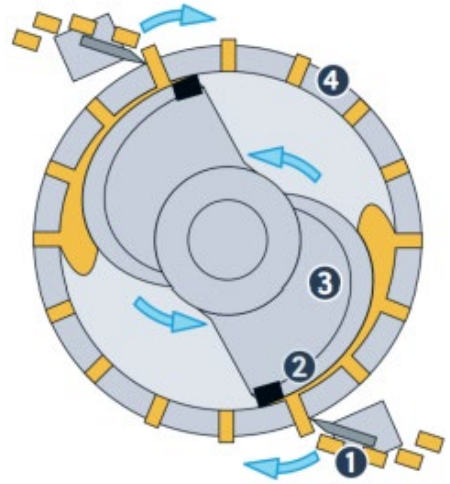
Plast-Agglomerator type PFV:

- Processing of all kind of thermoplastics : PET, PA, PES, …
- Various input shapes : Fibers, Fabrics, Non-woven, …
- Able to process high moisture content
- No filtration during agglomeration (clean waste)
- No degradation, combination of friction and pressure
- Dry free flowing granules
- High bulk density



1. Knives 2. Pressure piece 3. Agglomerating wing
4. Die

Extrusion with integrated cleaning

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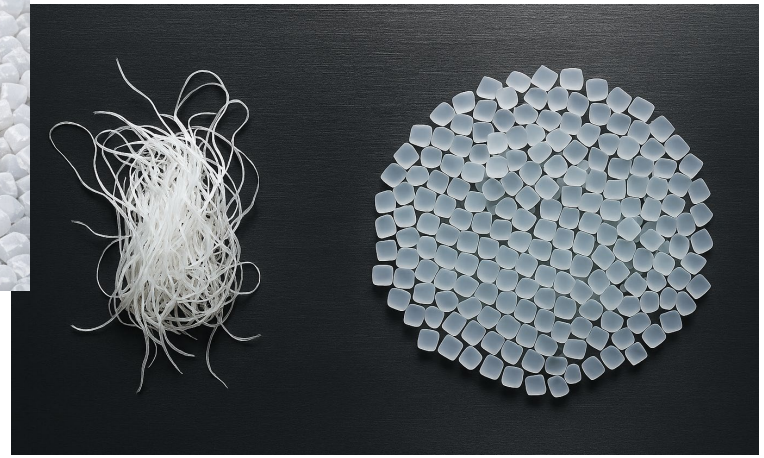
iQonic Twin PreDensifier (Agglomerator + Double Conical Screw Extruder) :

- Technology Alliance of Siempelkamp & MAS Austria
- Processing various thermoplastics even if high moisture content
- Filtration during processing (post-consumer waste)
- High-performance / Energy efficient (unique combination of PFV+Extruder)
- Homogenous compound even if adding of additives



Pulverizing to micro-powder

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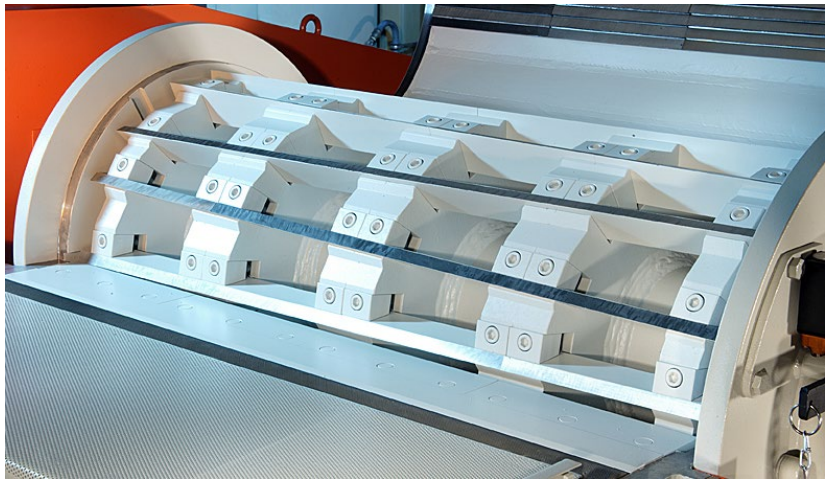
Precision Knife Mill:

Possibility to pulverize textile as cotton, viscose, cellulose, …, in micro-powder :

- High amount of rotor and stator knifes
- High speed of the rotor
- Alternating slant cut rotor
- Integrated screening (micro-powder < 200 µm)



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Thank you for your attention

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