



# TRANSFORMING YOUR LIQUID INTO PERFECT POWDER

### Why powder is often a better choice:

- Longer shelf life
- Higher microbiological stability
- Easier production
- Better functionality (e.g. flowability)
- Less cost (storage, transport and production)



Initial interview with our experts,  
followed by Non-Disclosure Agreement

Questionnaire, samples and documents  
to collect all requirements

Document review and indicative pricing

Feasibility study, trial production and upscaling

Contractual agreement & commercial production

## CONTACT US



We have state-of-the-art production equipment and years of experience in developing and manufacturing ingredients. We are happy to share this know-how to make your project a success.

### MEGGLE GmbH & Co. KG

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BUSINESS UNIT  
CONTRACT MANUFACTURING



## Experts in Spray-Drying



**MEGGLE's** recipe for success has been for over 135 years: Tradition, quality and innovation.

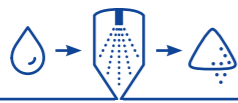
Founded in 1887 as a cheese dairy, MEGGLE Group has become a global brand with more than 2,500 employees, 20 locations worldwide and a turnover of 1.5 billion euros. Besides its well-known dairy products for consumers, MEGGLE manufactures high-quality pharmaceutical lactose, food- and feed ingredients and offers contract manufacturing services.

### Business Unit Contract Manufacturing

Our core competence in spray-drying is completed by agglomeration, evaporation and mixing services. We support our customers during development and production, offer tailor-made solutions and realize customer demands, no matter how unique they may be. Experience, long-term focus and intensive service from the very beginning ensure the success of your project.



# SPRAY-DRYING



We at MEGGLE have been producing spray-dried products since 1986 and have acquired a deep understanding of spray-drying processes. That's why we are your competent partner to realize your projects from the initial idea to the finished product.


## THE RIGHT EQUIPMENT FOR EACH PROJECT

### 3 SPRAY-DRYING TOWERS




**LARGE**  
(1.500 kg / h)\*

- High volume
- Upfront evaporation
- Food and Feed Ingredients
- Pharmaceutical Excipients



**MEDIUM\*\***  
(750 kg / h)\*

- Infant Dry Blend Ingredients
- Food Ingredients & Specialities
- Pharmaceutical Excipients
- Nitrogen filling



**SMALL / PILOT**  
(25 kg / h)\*

- Product development & demo runs
- Functionality improvement
- Nitrogen filling
- Infant Dry Blend Ingredients
- Small volumes

\* Water evaporation at a dry matter of 50%  
\*\*as of 2025



## KEY FACTS

### PRODUCT RANGE:

- Food Ingredients
- Infant Dry Blend Ingredients
- Pharmaceutical Excipients
- Feed Ingredients

- Proteins / Peptides / Enzymes / Collagen
- Oligosaccharides & HMOs
- Co-processed Excipients

### CERTIFICATIONS & STANDARDS:

- DIN EN ISO
- IFS (International Featured Standard Food) incl. HACCP System
- FAMI-QS
- EXCiPACT
- IPEC GMP
- Halal / Kosher

### FILLING:

- Paper bags
- Big Bags
- Drums & Cartons

### EXAMPLES:

- Vitamins & Minerals
- Natural Extracts & Colours

## OUR SERVICES FOR YOUR PERFECT POWDER



### DELIVERY (RAW MATERIALS)

- Tankers
- Intermediate bulk container
- Drums and canisters
- Flexible delivery times



### PROCESSING

- Mixing (dry/liquid/paste)
- Heating
- Cooling
- Homogenizing
- Evaporation
- Pre-treatment (e.g. pH adjustments, enzymatic modification)



### SPRAY-DRYING

- High level of expertise in improving powder properties (e.g. particle size distribution, flow characteristics)
- Partial agglomeration possible
- Different spray tower capacities to realize small to large projects



### FILLING / PACKING

- Flexible packaging solutions
- Filling under a nitrogen atmosphere (e.g. to avoid fat oxidation)
- Flexible storage options



### ANALYTICS

- Chemical, physical and microbiological
- Specific analytics in-house or with external laboratories

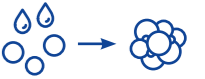


### REGULATORY / QUALITY SUPPORT

- Advice and assistance according to your needs

## FURTHER CONTRACT MANUFACTURING SERVICES

### AGGLOMERATION



#### Continuous wet agglomeration

with downstream fluid bed drying for the production of agglomerated products

#### Mixing of up to three powder substances possible

#### PRODUCT RANGE:

- Food Ingredients
- Pharmaceutical Excipients

#### FILLING:

- Paper bags
- Drums
- Big Bags

### EVAPORATION



#### Falling film evaporator

from 10-55 MT of water evaporation per hour

#### EXAMPLES:

- Milk
- Buttermilk
- Apple juice



For a customer, we realized a very special project in an apple-rich harvest year. Several million liters of apple juice were evaporated to 70% dry matter in our plant.

### MIXING



#### Mixing of several powder components

from 10 MT to 100 MT

#### PRODUCT RANGE:

- Food Ingredients
- Feed Ingredients

#### FILLING:

- Paper bags
- Big Bags