

## Excellent in Development

The unique combination of know-how in processing, equipment engineering and products is the key to ProCepT's success. Through innovation and flexibility, we focus on R&D feasibility development in particle engineering with agglomeration, coating and drying for pharma, biotech, fine chemical, nutraceuticals and food applications.

## From API to final COATED TABLET

### Our services include:

- ✘ Pre-formulation
- ✘ Formulation development
- ✘ Feasibility testing
- ✘ Trouble shooting
- ✘ Process validation & analysis
- ✘ Process development
- ✘ Particle engineering
- ✘ Scale-up consulting
- ✘ Hands-on process training

Through partnerships we also offer:

- ✘ GMP infrastructure
- ✘ Analytical development
- ✘ Stability testing
- ✘ Pre-clinical ~ phase II
- ✘ Bioequivalence studies
- ✘ Regulatory API/NCE/Generics

## Allied Partners

**ProCepT**<sub>n.v.</sub>  
Processing Concept  
Particle Engineering Services  
Feasibility Lab



**PharmaVize**  
Clinical GMP Production

**ProCepT**<sub>n.v.</sub>  
Processing Concept



Contract development combining  
process know-how, equipment  
engineering and your product

### Pro-C-epT nv

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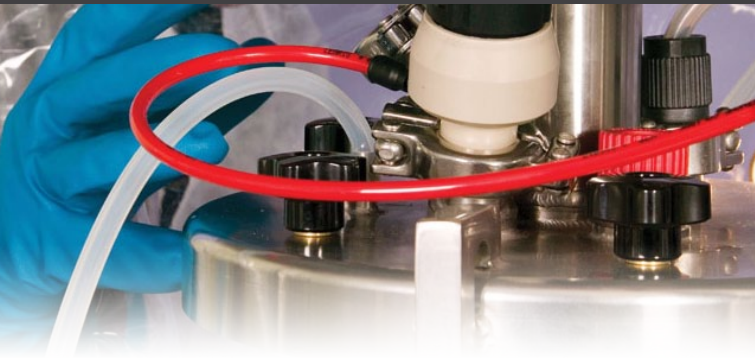
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## Special focus on tailoring technology

A strong equipment engineering force is available in-house, supporting fast and reliable tailored solutions to get customer's products succeeding. Several examples have already shown great results out of this unique strength!



### Customer testimonial:

"We collaborated with the ProCepT team in attempt to solve a process problem linked to a formulation. Due to their high level of technical competence and their flexibility, they were able to understand our need and to solve our problem within short time." **Anonymous**



**Contract Development**

## Particle Engineering

### Micro & Nano-Encapsulation

With Fluid Bed technology we coat particles from 1.5mm down to 30µm and smaller. With Spray Drying/Chilling we process matrix formulations to encapsulate down to nano scale particles.



### Solid Dispersions

We use Spray Drying to improve the solubility of compounds being transferred from crystalline structure to an amorphous solid dispersion status.

### Controlled Release & Taste Masking



With Wurster and Perforated Drum processing we can coat particles ranging from 30µm and smaller to larger size tablets and capsules. We also apply spray congealing and melt granulation-pelletisation.

### Particle Agglomeration

To improve particle flowability and compressibility, we use wet and melt agglomeration techniques: High Shear, Fluid Bed, Extrusion and Spheronisation.

## Drying Development

To study and improve the Drying performance we apply Drying Kinetics using Vacuum Drying, Microwave Drying, Spray Drying and Nutsche Filtration Drying.

## Hands-on process training

From time to time we organise seminars on processing, formulation and technology in the field of agglomeration, drying and coating. We create a good balance between theory and hands-on training.



**Process know-how**

## Processing Equipment



Fluid Bed Drying /  
Coating / Agglomeration  
50 - 1000 g



HS Wet & Melt  
Granulation  
15 - 1000 g

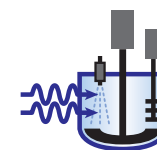


Extrusion /  
Spheronisation  
25 - 250 g

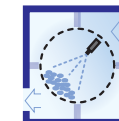


HSW Granulation  
Vacuum Drying  
15 - 1000 g

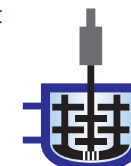
### Formulation Development



HSW Granulation Vacuum  
& Microwave Drying  
100 - 700 g



Perforated Drum  
Tablet Capsule Coating  
50 - 1000 g



Mixing Homogenising  
semi-solids  
100 - 1000 g

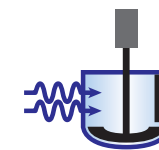
### API Drying Development



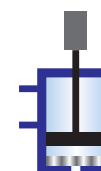
Spray Drying  
& Chilling  
0,2 - 4000 ml



Agitated  
Vacuum Drying  
50 - 4000 ml



Agitated Vacuum &  
Microwave Drying  
200 - 3000 ml



Agitated Vacuum  
Nutsche Filter Drying  
1 - 5 litres



**Process Technology**