

Equipment for basic testing

| Model | Required amount of product* | Information/ Results |
|--------------------------------|-----------------------------|---|
| Beaker centrifuge | 2 kg solids in suspension | Feasibility, selection of apparatus, filtration velocity, dehumidification kinetics, selection of filter cloth |
| Pressure nutsch filter | 2 kg solids in suspension | Feasibility, selection of apparatus, filtration velocity, cake resistance |
| Plate dryer simulator | 20 liters wet product | Feasibility, scale-up, abrasion test, drying characteristics |
| High temperature nutsch filter | 2 kg solids in suspension | Feasibility, selection of apparatus for high temperature applications, filtration up to 400°C product temperature |
| Static crossflow filter | 5 liters suspension | Selection of membrane, estimation of permeate output |

Equipment for pilot scale testing

| Model | Required amount of product* | Special equipment |
|-------------------------------------|-----------------------------|---|
| Horizontal peeler centrifuge | 200 kg solids in suspension | Siphon basket, Peeling device, EX, residual heel removal |
| Horizontal pharma peeler centrifuge | 100 kg solids in suspension | Pharma execution, CIP process room, residual heel removal, EX |
| Pusher centrifuge | 1000 kg solids | Continuous, non EX |
| Mixer dryer | 200 liters wet product | Vacuum- or condensation system. Digital data logging, EX |
| Dynamic crossflow filter | 50 liters suspension | Discontinuous and continuous operation, cooling circuit |

* All technical data are non-binding.

KMPT Test Center





KMPT Application Test Center

Having new products/ processes or changing them requires a secured design of the relevant process steps. The KMPT Test Center offers the possibility to establish the proper and assured choice of separation equipment.

Trials are available as lab or pilot scale tests in our Test Centers in Vierkirchen/ Germany and Florence/ USA or by rental equipment at your site (even in Ex-proof conditions).

Design tests collect and evaluate parameters such as:

- Quality of the machine,
- Quality of the design,
- later process guarantees, and
- the potential of the KMPT separation equipment

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Testing gives room for further process technological questions to optimize and tailor the machine.

Furthermore, our Test Center supports on all matters of solid/liquid separations.

Our experience gathered in thousands of tests over the last decades is available to our customers.

Combined trials with mechanical and thermal separation equipment for process systems like centrifuge <-> dryer combinations are available.

Lab and pilot scale tests:

- Design and scale-up
- Optimization tests for production equipment (e.g.: Capacity, product quality, etc.)
- Feasibility studies for new applications

Typical application test routine

