

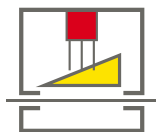
*Speed-up your Process*

*with better Quality Results*

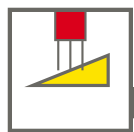
*using Microwaves*



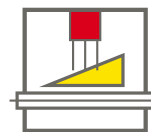
## Heating



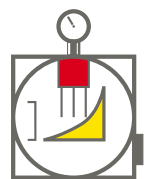
Conti Heater



Chamber Oven

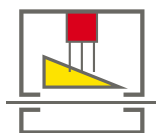


Flow Heater

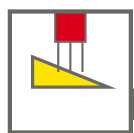


Furnace

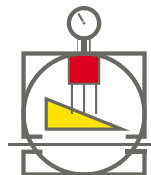
## Drying



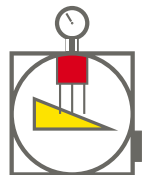
Conti Dryer



Batch Dryer



Conti Vacuum Dryer



Batch Vacuum Dryer

*be a leader...*



*... not a follower*

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[www.pueschner.com](http://www.pueschner.com)

## Application Fields

### Chemistry

- Drying of Fine Chemicals
- Heating of corrosive and abrasive Products
- Heating and Drying of Metal Oxide
- Reaction Accelerator in chemical Processing
- Heating/Liquefying of high viscous chemical Raw-Materials
- Drying of Peroxide/Explosive Materials
- Continuous high Pressure thermo chemical Conversion of organic Products (250bar/400°C)

### Pharmaceutical

- Vacuum Drying of Tablets and active Ingredients removing Solvents
- Pasteurization/Improvement of Shelf Life of pharmaceutical Products
- Heating/Liquefying of high viscous pharmaceutical and cosmetically Raw-Materials
- Continuous high-end Vacuum Drying
- Ultra fast Heating/Sterilisation of Sera and Protein Products

### Ceramics

- Heating and Drying of ceramic Materials
- Drying of ceramic Catalysers
- Drying of fibre Ceramics
- Continuous Sintering of ceramic Pellets

### Plastics

- Heating of laminated Sheets and Boards
- Polymerization of Fibre Glass reinforced Profiles
- Preheating of Plastic Profiles
- Heating of Epoxy Pipes/Tubes
- Drying of Plastic Raw-Material and Granulate
- Heating of Plastic Web and Sheets

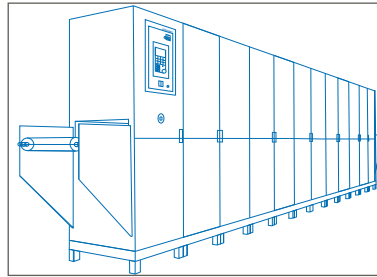
### Medical

- Heating/Melting of Polyamide Tubings used for Infusion Systems, Catheters etc.
- Drying of Dialysers and Membrane Products

### Paper/Sheet Material

- Ultra-fast Heating of Paper Webs in the Printing Industry
- Drying of adhesive Coatings on Paper Webs

Conventional Heating (left) and Microwave Volume Heating (right) within the Penetration Depth



µWaveDryer6005, (5 Modules 12kW/2450MHz each), Belt Width 0.5m



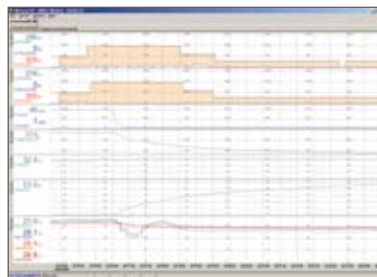
µWaveVac0290, Combined Air - and Vacuum Disk Dryer under Explosive Protection and cGMP



µWaveDryer1205 for Drying of Foodstuff in Combination with InfraRed Heating and Steam Supply



µWaveVac018-Sin, Microwave Furnace with IR Array Camera, HotCavity, Gas Atmospheres like N<sub>2</sub>, H<sub>2</sub> etc. Graphite Heating System up to 1600°C



Process Visualizing and Plant Control for Advanced Microwave Process Technology



User-friendly Command Panel with intuitive Rotary Knob



Full automated Multi-Batch Microwave System for drying Filter Cake down to < 0.1% Moisture Content



High Pressure Flow Heater of thermochemical Conversion of organic Compositions (250bar/350°C)



Production Line with a 30kW Microwave Chamber Oven for Drying Ceramic Blocks



Completely safe covering all EU and international Standards