Devotion to advance **coating** and **drying** of fluid films is our ambition
“From my point of view, the market is in need of companies which, based on sound knowledge, set new impulses with innovation. Against this background, I always enjoy entering the premises of FMP Technology GmbH in the morning to work with my employees on exciting new products. These include our new dryer patent, which is already used in our convection dryers. With flexible and process-technically sound slot nozzle designs, we also want to revive the market with a high degree of customer orientation. An exciting year 2019 is waiting for us!”
Continual process and product development

Systematic process analysis
- Analysis
- Feasibility studies
- Simulation
- Experiments

Hardware systems
- Turnkey and customized slot die systems
- Patented jet-free industrial dryers
- Coating lines

Are you working in...
- Electronics
- Chemical Industry
- Mech. Engineering
- Food Industry
- Cellulosis
- Packaging
- Construction
- Agriculture
- Furnishing
- Automotive Engineering
- Medical Field
- Aeronautical Engineering
- Pharmaceutical Industry
- Paper Industry
- Printing
- Recycling
- Textiles and Fleece
- Furniture

You are right with us!

WE PICK YOU UP ON THE ROAD TO SUCCESS:
TOGETHER WE PAVE THE WAY TO INNOVATION!
As a medium-sized company, we see ourselves as innovation drivers in the fields of coating and drying technology.

Our aim is to offer our customers the greatest possible turnkey-convenience with turnkey-solutions, such as the delivery of slot die systems, small coating units, or industrial and laboratory dryers.

Our well-founded process know-how allows us to offer you as our customer tailor-made systems. Our knowledge is based on the empirical, analytical and numerical skills of our interdisciplinary team.
PROCESS ANALYSIS

We draw on unlimited resources
Coating and drying processes can be very complex and keeping track is not easy. Nevertheless – you have the ambition to improve your current system?

We will be happy to assist you in evaluating your process in order to develop and quantify possible improvements. Since our founding, we have been able to acquire a wide range of experience, especially in slot-die coating and convection drying.

What do we have to offer?

- Systematic analysis of your existing process
- Feasibility studies in our 350 m² pilot plant:
  - Coating-fluids:
    - Preparation process for production
    - Rheological studies
  - Analytical calculations:
    - Slot-die (coating window)
    - Drying (residual moisture curves, heating curves, solvent concentration, etc.)
  - Experiments (continuous, intermittent):
    - Coating
    - Drying
- Numerical simulations:
  - Flow analysis
  - Structural analysis
- Coating and drying experiments directly on site at the customer’s premises
DRYING SYSTEMS

Jet-free floating dryer
JET-FREE AND HIGHLY EFFICIENT?

NO CONTRADICTION AT FMP!
EXCELLENT COATING QUALITY
WITH HIGHLY UNIFORM DRYING.

Experienced users of coating technology are aware that not only the coating, but also the drying process has a decisive influence on the quality of the coated product. Since drying processes are evaporation processes, the air flow above the coating plays an important role.

With an innovative, freshly patented process, FMP Technology GmbH launches a dryer on the market that makes it possible to dry much more uniformly without impact jets. Higher drying rates compared to conventional impact jets are also achieved.

FMP Technology GmbH combines innovation with proven industrial practice. Within the product range, the SenDry series meets the highest demands with regard to uniform heat input. Another newly patented product-series, PureDry, enables perfect floating operation over many metres at the request of our customers with a higher and considerably more uniform heat input at the same time.

Cooperations with established dryer manufacturers enable us to build directly on existing industrial experience with new innovations and to supply turnkey industrial drying systems.
SLOT-DIE SYSTEMS

Slot-die, applicator and conveying system in perfect unison
As a so-called pre-dosing coating process, the slot-die technology is one of the most precise application processes on the market. At the production level, FMP Technology GmbH has succeeded in recent years in producing reproducibly high-precision slot-dies. Crucial aspects, such as the final determination of the uniform distribution by means of well-founded analysis technology in connection with manual lapping processes, take place directly within the company.

Thanks to our profound process knowhow (empirics, numerics and analytics), we can offer you, as our customer, exactly the slot-die with the best value for money for your process. Well-founded analytics allow us to distribute the fluid to be coated across the width in a wide variety of distribution chamber designs. FMP Technology follows the principle: “As simply as possible, as complex as necessary”

However, the slot-die system is not yet complete with a single slot-die. Only in harmony with other components, such as the applicator and the conveyor system, can a flawlessly running interaction be achieved. Over many years, various conveyor systems have been developed in-house. Together with partners, FMP Technology GmbH has supplied commissioned plants in a wide variety of widths according to specifications. With us you get slot nozzle systems from one casting, tailored to your respective application.
COATING SYSTEMS
From the core business of nozzle production, demand for coating systems for laboratory operation and production increased on the market.

In this context, FMP Technology GmbH offers sheet-to-sheet systems in conjunction with its own slot-die, conveyor and drying systems. These can be slow-processing nanocoatings in the clean room or fast-running curtain coatings.

FMP Technology GmbH also offers roll-to-roll systems in widths of up to one meter. The systems also include the company's own slot-die, conveyor and drying systems. The complete system will be delivered in cooperation with a well-known coating system manufacturer.
DROPLET GENERATOR

The FMP-droplet generator
MONODISPERSE DROPLET GENERATOR

The sprays of conventional spray nozzles always have a large number of different droplet diameters and thus wide droplet diameter distributions. However, some applications, such as calibrating measuring instruments or producing particles by spray drying and crystallization, require that all droplets have the same diameter. The monodisperse droplet generators from FMP Technology GmbH enable the production of such continuous droplets (chains) with monodisperse diameter distribution. Drop sizes from 40 to 1000 µm are possible. Different liquids can be processed.

We would be pleased to advise you on your specific application. We can draw on our experience from past projects and work with you to find the right solution for your problem. All components necessary for the operation of monodisperse droplet generators are available from FMP Technology GmbH.

We are happy to realize your specific requirements.
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