

Glatt Technology Center



Pharmaceutical Development



Formulation Development
Process Development
Scale-Up
Contract Manufacturing
Equipment Design
Technology Transfer



We set the standards

Contract manufacturing

**Glatt Gets You
to the Market
Sooner!**

You can take advantage of our contract manufacturing while you prepare your own facilities. We can start production for the market launch as soon as the development work is finished.

That makes it possible to make effective use of the time required for assembly, qualification and validation of new systems: We can start producing the new products on your behalf. With reliability, speed and flexibility - on the same machines and with the expertise we have gathered jointly! This is also an answer to dealing with your production peaks.

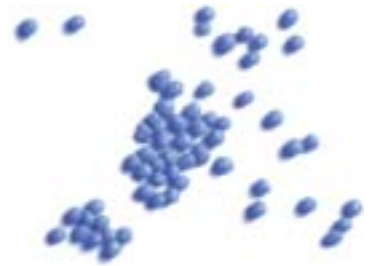
The principal factor, however, is the decisive reduction in the "time to market".



Bottom-Spray Coater



IPC Process Center GmbH, Dresden



Training/Technology Transfer

**Team Training for
Highly Qualified
Performance.**

Your employees can be prepared for their future activities as early as the product development phase. Your personnel can be trained by Glatt's experienced experts in the Technology Center at Binzen. This involves hands-on training in your future technologies and with your product - despite the fact that your machine might be only at the planning stage.

Ensure you make a successful start by having highly trained and well motivated employees! We offer individual theoretical and practical training for pharmaceutical engineers, machine operators, engineers and maintenance personnel. With targeted personnel training, you can lay the foundations for production success at a consistently high quality level.



Lecture room



Conference room



Formulation Development

Experience as the Key to Success.

Glatt's recognized expertise in developing and optimizing recipes is based on decades of experience in the field of solid dosage forms. Right from the outset, our day-to-day business has been to deal with complicated challenges in all areas of pharmaceuticals and at all levels of complexity.

We can fall back on a broad spectrum of technologies, which means we take a clear and unbiased approach when selecting the extremely varied range of processes. As a result, formulation, process and manufacturing are fused into an integrated overall concept right from the start. This is another reason for building on the expertise and skills offered by Glatt.



Quality control



In-vitro release analysis



Fluid bed process in a GPCG 60 pilot machine



Processes

Process Development.

In process development, it is important to strike an optimum balance between technology and formulation. In this field too, we use our decades of experience in applying industrial technologies to multi-disciplinary tasks.

Even in the case of innovative technologies, we are able to recognize what is technically feasible as early as the development phase. At the same time, we can bring our entire technical expertise to bear in adapting existing processes and machines to tailor them to your specific needs. Rapid and professional adaptation to the technical requirements of the product gives you the greatest possible level of flexibility.

You can bring your product up to market readiness more quickly without progress in development work being hampered by technical restrictions. During all of these phases, you have full access to our development potential - which means you don't have to reinvent the wheel every time! That saves you a lot of time, money and trouble.



Tablet press

Clinical Samples/Scale-Up

A Clear Bonus: Quality, Reliability, and Performance!

Immediately after development of the formulation and process, Glatt can produce all the necessary clinical samples for you on request - on the same machines with the same specialist team in the Technology Center at Binzen. All the technologies used are available under pharmaceutical cGMP conditions - from the smallest laboratory scale right up to full production. In addition, Glatt offers you its priceless expertise as a manufacturer of large-scale machines.

As well as taking a lead in expertise, there is also a major time bonus. With Glatt, major development phases can be significantly reduced. We know your product and your project, so we can offer you the time bonus, backed up with the comforting assurance that the proven process will also function at production scale.



GPCG 3 - Laboratory fluid bed machine for small / development batches

That means Glatt can also guarantee four decisive advantages in this phase:

- **Cost reduction**
- **Confidence**
- **Reliability**
- **Speed**



Full Service

**Development,
Scale-Up,
Production.
A Single Source
for Everything.**

Glatt possesses decades of experience in production of solid dosage forms for the pharmaceutical industry. We at Glatt enjoy a worldwide reputation for our expertise in technology and equipment design, making us your choice as expert partner for all processes, including pharmaceutical development in solid dosage forms. We offer you a single source for everything. You can choose individual service modules or complete packages: finding formulations, process development, clinical / bio-batch samples, scale-up and contract manufacturing as well as the planning and technical implementation of production plants. This not only applies to standard processes but also to innovative technologies in the production of solid dosage forms.

**High-Tech +
High Speed
= Glatt.
The Formula for
Pole Position!**

Only Glatt can offer you this unparalleled scope of services - at the ground-breaking Technology Centers at Dresden and Binzen. Profit from the comprehensive range of services offered by these innovative high-tech centers which possess the necessary technologies and expertise. This guarantees the speedy launch of your products onto the market!



Technology Center at Binzen

The advantages are readily apparent: With Glatt, you can halve, or at least drastically reduce, the development time for high quality pharmaceutical products at a stroke. And that means you can bring innovative products onto the market even more quickly. This acceleration process can become your decisive advantage in a tough competitive market!



Technical Data

**Technology
Center
Binzen.
Top Quality based
on Technology
with a Future.**

**Technology
Center
Binzen.
Top Address
for Top
Services.**

Type	Areas of application
Fluid bed machines	Drying
	Granulation (Top Spray)
	Coating (Bottom Spray = Wurster)
	Pelletization (Rotor)
	Aqueous and organic
	Batch size 0.1 - 300 kg
Continuous fluid bed machine	Pellet production
High-shear mixer	Wet granulation
	Pellet production
	Batch size 2 - 70 kg
Homogenizing sieve	Homogenization and grinding
	of wet and dry products
Classifying sieve	for granules, pellets
Mixer	for powder, granules, pellets
Tablet press	Rotary press, up to 120,000 tablets/h
Quality control laboratory	Methods for analytical characterization
	of solid dosage forms
Production standard	cGMP-compliant manufacturing

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Glatt® GmbH
Process Technology
Bühlmühle
79589 Binzen/Germany
Phone: (+49) (-7621) 664 708
Fax: (+49) (-7621) 664 728
E-mail: technologycenter@glatt.de

www.glatt.de



Glatt Binzen



IPC Dresden



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the standards**