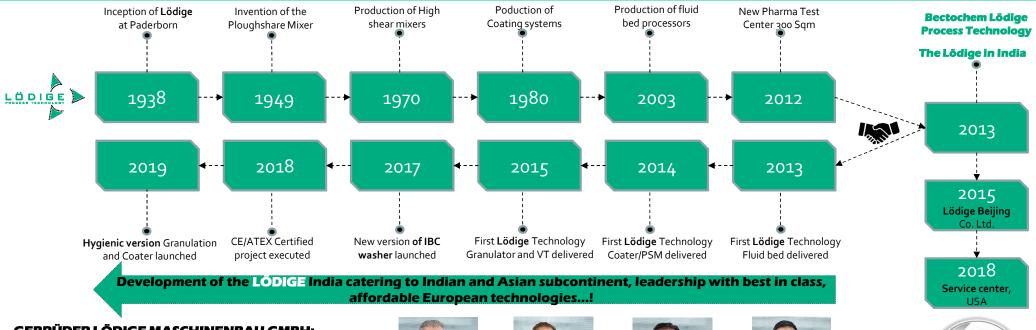


GEBRÜDER LÖDIGE MASCHINENBAU GMBH, THE "LÖDIGE"!





GEBRÜDER LÖDIGE MASCHINENBAU GMBH:

Inventor of the Ploughshare Mixer, has turned **Lödige** into a World Leaders in Process Equipments and integrated systems for the Pharmaceutical, Food, Environmental, Consutruction and Minerals industries for solid powders, granulates, dusts, pastes and slurries.



Dr. Dirk Sunderer Managing Director



Reiner Lemperle Sales Director



Georg Keich Commercial Director



Dr. Herald Reinach **Technical Director**



LÖDIGE GERMANY MANAGEMENT

Successful venture Press release: https://www.loedige.de/fileadmin/user_upload/2019-11-12_loedige_pr_india_en.pdf

Joint Venture Partners: Process Solutions Expertise



GEBRÜDER LÖDIGE MASCHINENBAU GMBH:





BECTOCHEM LÖDIGE PROCESS TECHNOLOGY:





235 Employees

20,900 m² Production Area

Bectochem Lödige Process Technology:

Bectochem wanted to raise conventional technology platform to meet highest quality standards and Ernst & Young had been appointed to implement strategic decision of finding strong process driven organization. While Lödige were to enhance their presence in Asian continent and were looking for a versatile partner in India and were assisted by Price Waterhouse Cooper for this due diligence activity. After extensive audits and detailed assessment on numerous parameters, Lödige with controlling stake, decided to venture in Mumbai-based Bectochem in April 2013.

Bectochem Loedige is ISO 9001:2015 certified company for Quality Management Systems. Indian teams like Quality, Manufacturing, Sales and Project management are continuously trained by German team to ensure identical execution platform in Germany and India. This collaboration had been aggressive since inception and have successfully commissioned over 400 pharmaceutical process systems in India and its neighboring countries. This has allowed Lödige to enter a regional market which is practically inaccessible from Europe. In turn, Bectochem Lödige delivers systems built according to German technological and quality standards while major performance defining components are imported from Europe to ensure superior performance.

COATING



CONSUTRUCTION

















Raw Materials









WIDER RANGE OF PROCESS EXPERTISE AND SOLUTIONS!

BECTOCHEM LÖDIGE PROCESS TECHNOLOGY, "LÖDIGE" INDIA



BENCH STRENGTH - LÖDIGE INDIA



CORE TECH-TRANSFER PRODUCTS



High Shear Mixer Granulator



Plaughshare Mixer Granulator



Fluid Bed Equipment



Vacuum Showel Dryer and Reactor



Tablet/Pellet Coater

Mixing and Granulation Solutions

Drying and Processing Solutions

Coating Solutions

KEY COMPONENTS IMPORTED TO ENSURE IDENTICAL PERFORMANCE!

BECTOCHEM LÖDIGE PROCESS TECHNOLOGY, "LÖDIGE" INDIA



VALUE ADDED PRODUCTS AND ACCESSORIES



Bulk storage and Handling

Classification and Wet/Dry Sizing

Blending

In Place Cleaning

DEVELOPMENT SCALE SOLUTIONS













Mixing and Granulation

Drying and reacting

Coating

AND MANY MORE PROCESS DEVELOPMENT SOLUTIONS WITH **ESTABLISHED SCALE UP STUDIES...**

"LÖDIGE" NEXT-GENERATION TECHNOLOGY



CONTINUOUS GRANULATION



Continuous Granulator KM-5 with weigh feeders



High Speed Granulator Corimix® CM-5



Continuous Fluid Bed LCF-5 with integrated Granulator CM-5

R&D scale CWG

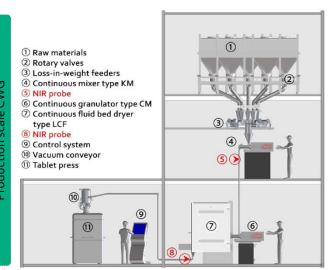
The continuous mixer/granulator and the dryer are the heart of the Lödige line for the continuous process in the pharmaceutical industry - a complete production line from powder components to finished granulate.

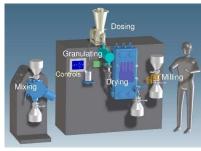
The line also includes dosing units, mixers, sieves and the overall control system. Thanks to the continuous operation the product is handled by the operator only at the beginning and end of the production line. In between, it passes from one machine to the other, from one process step to the next – without handling. Less operator interaction results in a safer process and a reduction of manpower.

ADVANTAGES

- CONSISTENT QUALITY
- SMALLER FOOTPRINT
- LESS PRODUCT HANDLING
- LESS PRODUCT EXPOSURE
- PROCESS MONITORING

- LESS MANPOWER
- LESS CLEANING HASSLES
- LOW CHANGEOVER TIME
- PRODUCT MONITORING
- LOWER OPERATING COST





"LÖDIGE" TEST CENTER-WHERE INNOVATION BEGINS...!















TEST CENTERS @ PADERBORN OVERVIEW









CONTINUOUS GRANULATION

TEST CENTRE MIXING AND REACTING APPLICATIONS BEING BUILT IN INDIA SHORTLY!





BATCH GRANULATION

MIXING & REACTION

THE KEY TO YOUR SUCCESS!

As our customers, you develop products that are not only based on new recipes and components, but also require new processes. Of course, before you invest, you need to be sure that your new product can also be manufactured in the appropriate size, as well as in the expected quality and economy. We can give you this certainty: either through a multitude of references of the same or similar applications or through appropriate tests with original raw materials.

These should be manufactured with the same system systems and the same process control as you have in production. We can optimally support you in our technical center. We have machines for small batches and a secure scale-up on a production scale.

Our technical center is suitable for tests in the following fields of application:

- Pharmaceuticals
- Food
- Chemistry
- Minerals
- Environment

The following process steps, individually or in combination, can be carried out:

- Mixing
- Drying
- Reactions
- Coating/Layering
- Granulation
- Emulsification

Product Development - Process Development





Process Optimization



Scale up studies

"LÖDIGE" INDIA – QUALITY MANAGEMENT



LÖDIGE INDIA PROJECT MANAGEMENT

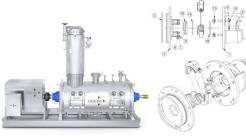


- Centralized SAP system for seamless data management
- Inquiry to commissioning: End to end system driven by SAP
- Total transparency with streamlined work flows
- Traceability
- System generated reports for project activities tracking

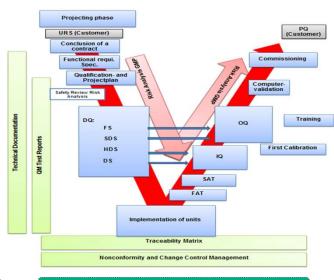




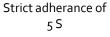














Implimentation ensures Continuous improvement



HIGHEST QUALITY DELIVERANCE BY "LÖDIGE" INDIA!

CUSTOMER PARTNERED "LÖDIGE"INDIA











































































































...THE PARTIAL LIST...!

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