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The Company Linde-KCA-Dresden GmbH
Competence in Engineering & Contracting for the Pharmaceutical Industry

The Competence of Linde in
Engineering & Contracting of Pharmaceutical Plants

Linde-KCA-Dresden GmbH is a part of the Linde group with its headquarters in Wiesbaden, Germany, and more than 47'000 people employed worldwide. We are a part of the Linde Business Segment ‘Gas and Engineering’ and have qualified ourselves as a leading contractor for the design and construction of pharmaceutical, chemical and biotechnological plants.

As planer and contractor for plants for the production of pharmaceuticals, our major duty is to assure the keys to success of the investor: product quality and a short time to market. Furthermore, the engineering must be moulded by tailoring it to project flows typical of the pharmaceutical industry and current market requirements.

Starting point of our projects is always the elaboration of the process. Around this core element, our scope of supply covers all disciplines of the projects, including the architecture and civil construction, technical equipment of the building and cleanrooms, logistics and storage as well as IT. Through the extensive utilisation of modular planning elements we achieve short planning periods with the highest planning reliability possible. All engineering tasks and also the procurement can be done from our own Linde personnel located in Dresden, Germany, and Basel, Switzerland.

Our procedure of project execution is based on the experience of Linde in the field of engineering and contracting of the last decades. It has been specifically adapted to pharmaceutical projects. It links accurately all work processes spread over different parties and describes the interfaces between them. Its foundation is a phase model which has been developed by Linde specifically as management tool for pharmaceutical facilities to guarantee a well structured work- and document flow. This manner of project execution is the base of a successful project with regard to content, target date and costs.

From the beginning of the project on, and, if necessary, all the way through until the start-up of the installation and its qualification, the flexible Linde project teams work as a task force at the client’s site.

The execution of the projects is always done according to GMP-Compliance and ISPE Baseline Guides. The qualification is an integrated part of the project flow from the start of the project on and a part of the Linde Quality Management Systems.

In case you are considering to plan and realise a pharmaceutical project, please feel free to contact us any time and to profit from our competence, our commitment and our efficiency. We would like to convince you of our capability and to acquire you as a satisfied customer.

If you would like to get more detailed information, you are very welcome to visit us in our offices in Dresden and near Basel.
The Linde Group

Linde’s business segments have established leading positions in their markets.

Linde’s pharmaceutical engineering services are performed by:
- Linde-KCA-Dresden (head office) with its offices in Basle region (CH, D)
- Linde Process Inc. in Tulsa (USA)
The activities of Linde-KCA-Dresden comprise three different lines. We offer the full engineering scope from the project development up to the commissioning of the plant.
During the last years the sales of the division Pharmaceutical Plants represented about 30 to 40% of the company sales.

New:
In the year 2002 the number of employees of the division Pharmaceutical Plants increased to 146. This is a consequence of the integration of the formerly independent Linde Syntech GmbH, located in the Basel region, as a new department within Linde-KCA.

The organization of Linde-KCA-Dresden allows to execute large-scale and small-scale projects, as well as process oriented engineering tasks like project development and conceptual design.

All necessary engineering services are in house.
Linde's Activities for Pharmaceutical Industry

Plant Spectrum

- Biotechnological Plants
- API-Plants
- Plants for Pharmaceutical Production
- Plant Spectrum & Activities
- Pilot Plants
- Reconstruction/ GMP-upgrading of Plants
- Supply and Ancillary Equipment
- Laboratories
- Plants for Fine Chemicals

All types of pharmaceutical plants have been engineered, constructed, commissioned and qualified by Linde.

Pharmaceutical Plants

Our Offer

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Linde-KCA offers its engineering services as General Contractor or as EPCM-Partner.

With regard to the contract we are rather flexible. Invoicing can be done at cost or based on a fixed price defined and agreed on in the contract.

Please ask for further offers!
Linde has all relevant engineering disciplines in house.

All works are executed according to an established project plan, division of work, certified interfaces and standard execution schedule.

Why Linde?

- Detailed knowledge in pharmaceutical processing technology
- References in designing and constructing API-plants, biotech plants and plants for the production of finished dosage forms
- All engineering disciplines are in house
- Technology transfer experience
- Internationally experienced project management
- Flexibility in cooperation due to on-site presence and use of state-of-the-art system technology compatible with client's requirements
- Willingness to take on fixed price scope of work and to execute turn-key plants
- Pharmaceutical engineering offices located in Europe and the USA

* excerpt of the mission of Linde-KCA-Dresden GmbH
After 12 years of engineering & contracting for the pharmaceutical industry, we can look back on the experience of over 60 projects.

Linde-KCA-Dresden has expertise and references for all development phases of a pharmaceutical product.

The following two projects are current:
- Octapharma in Vienna
  > Conceptual design to detail engineering for the construction of an aseptic filling line with barrier isolator and
- Biotest near Frankfurt
  > e.g. qualification + project management for a new plant for the production of blood coagulation products

Reference Situation of Linde-KCA-Dresden GmbH