

Leading solutions in vacuum and environmental technology

Engineering performance, components and systems for process engineering applications

Meet the experts at

ACHEMA2018



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Frankfurt am Main, Germany
www.achema.de



Hall 4.0 Stand J22



Chemical industry

Körting supplies customised solutions for vacuum generation from suction pressures of 0.01 mbar and from suction flows of 0.5 kg/h.

- high operational safety



Petrol refineries

Vacuum generation plays a key role in refinery operations. Vacuum distillation is used in oil refineries if long-chain hydrocarbons require separation. By applying a vacuum column, the boiling point of the substances to be distilled is lowered, making separation of the hydrocarbons easier.

- custom-made design
- first class manufacturing quality
- plants that operate reliably



Water treatment

Körting ejectors are applied as the centre piece of gas introduction systems

- for waste water aeration
- to introduce ozone and oxygen
- for disinfecting potable water and de-acidification
- in the pressurised dissolved air flotation



Advantages of Körting ejectors

- maintenance-free operation
- high oxygen efficiency
- no deposits
- straightforward control
- non-clogging construction
- no sealing problems
- design acc. to requirements

Gas cleaning

Körting gas scrubbing plants with the components

- jet scrubber
- Venturi scrubber

have been utilised successfully for decades for

- cooling
- physical and chemical absorption
- dedusting



The Vent Gas Treating System (VGTS) as complete unit with a jet scrubber, separation tank, packed tower and swirl droplet separator.

Droplet separation

Körting swirl droplet separators make an essential contribution towards the observation of emission codes and therefore towards environmental protection

- in gas scrubbing and vacuum plants
- for condensate separation in chimney stacks
- in evaporation plants
- for the separation of difficult products (e.g. those with a tendency to polymerisation)



Körting droplet separator during transportation and installed on the chimney of a plant.





Dedusting system for bioethanol production from agricultural waste. The Körting Venturi scrubber scrubs steam containing organic substances and ensures the process is very energy efficient.

Paper production

Thermocompressors for the pulp and paper industry ensure drying cylinder drainage in paper-machine drying sections or compression of low-pressure steam to be used in steam supply networks.

- long service lives
- low steam consumption due to controllable motive steam
- quick to adapt to changing conditions in the plant
- little maintenance required



Polyester production

Körting glycol steam jet vacuum plants:

- minimise operating and maintenance costs
- lead to an exceptionally high operational safety
- minimise environmental impact



Power plants

Körting vacuum system for the evacuation of turbine condensers have been firm components of steam power plants for many decades now and allow

- best possible heat recovery
- lowering of energy consumption
- high reliability and low maintenance



Steel degassing

Körting steam jet vacuum ejectors for degassing during steel production provide:

- high suction performance
- low space requirements
- low investment and operating costs
- almost maintenance-free operation



Wide range of products and services

Ejectors Vacuum technology

Single-stage ejectors



Condensers



Process-engineering plants



Multi-stage steam jet vacuum systems



Steam jet heaters



Tank mixing systems
with liquid jet mixing nozzles



Waste gas cleaning Environmental technology

Service

Venturi
and jet
scrubbers



Worldwide
customer
support



Transfer systems
for air, ozone
and oxygen



Spare parts



Caustic
Recovery
Plants (CRP)



Engineering



Swirl droplet
separator



Development



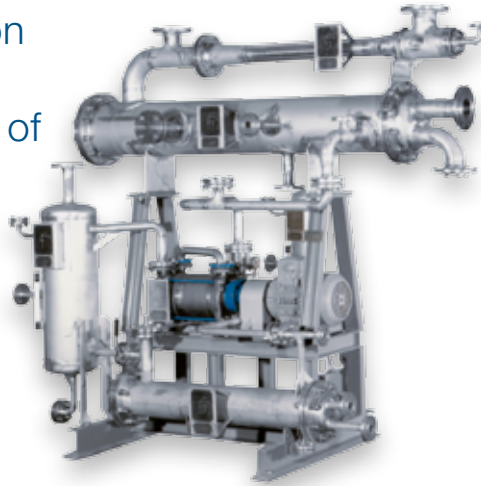
Oleochemistry

Reliable vacuum systems for diverse process steps such as

- drying
- distillation
- fractionating
- transesterification

during production of

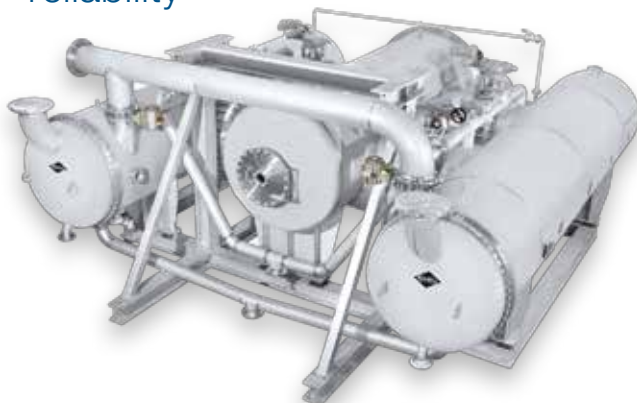
- biodiesel
- fatty acids
- soaps
- glycerine



Edible oil processing

Körting steam jet ejectors can be found in nearly all important process stages of the edible oil production. Specially developed systems with closed water circuits, chilled water systems as well as Körting ICE Condensation Vacuum System guarantee:

- energy saving
- environmental protection
- reliability



Chilling

Körting vacuum chilling plants for generating chilled water and for crystallisation processes

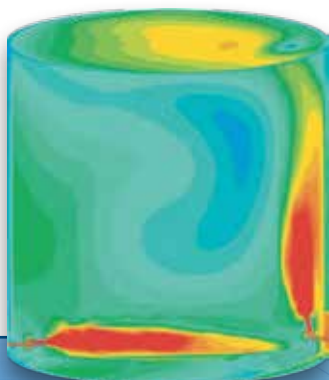
- environmentally-friendly
- energy saving



Tank mixing systems

Körting liquid jet mixing nozzles are the main components of special mixing systems which can be applied for continuous as well as discontinuous mixing duties. They can be used as complete replacement for mechanical agitators and in many cases they surpass their mixing results.

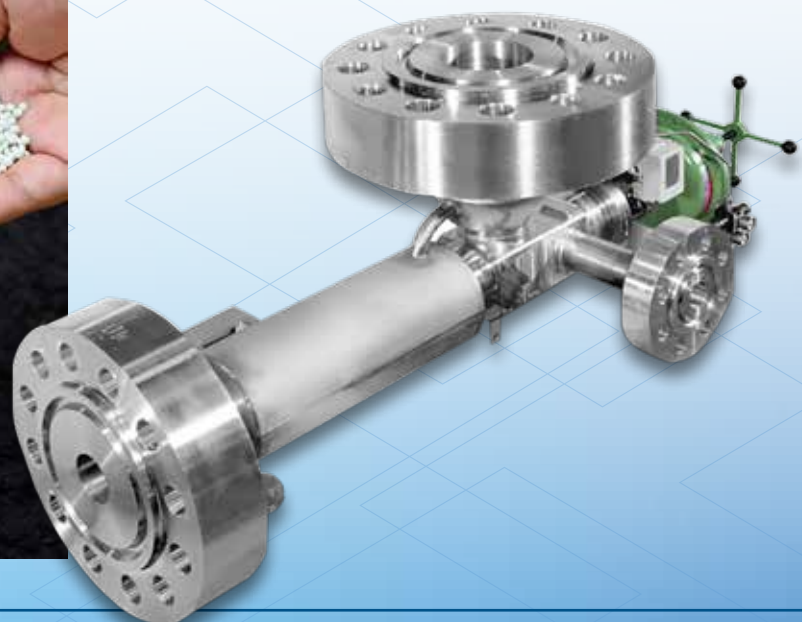
- complete mixing of the tank content
- wear-resistant, long service life
- no moving parts inside the tank
- low investment costs



Fertilizer production

Körting HP ejectors for re-feeding the carbamate solution in urea reactors, multi-stage steam jet vacuum plants, boosters and condensers are

- especially designed for urea evaporation stages
- particularly economical
- a guarantee for trouble-free operation
- absolutely worldwide leading in this field



Wide range of materials

With more than 146 years of engineering expertise in designing and manufacturing, Körting Hannover AG provides vacuum systems in a wide range of materials.

All metals

- steel
- stainless steel
- Hastelloy
- titanium

Non-metals

- graphite, ceramics, glass

Plastics and composite materials

- PTFE, PP, PE, PVDF, PVC, GFK

Special compounds

- steel and rubber coating
- steel and enamelling
- steel and protective coat



Research & development

The practical application of research and development has always formed the basis for the continued improvement of Körting products. It is also an absolute prerequisite for the smooth introduction of new technical solutions to the market.

Supported by own technical research facilities for the respective product ranges Körting Hannover AG is able to react in the quickest possible way to individual customer enquiries.



Service worldwide

Körting Hannover AG offers a multitude of diverse services, all aimed at gaining long-term and comprehensive customer satisfaction.

Amongst other things, the services include advice and support for installations, commissioning/start-up, finding and eliminating problems as well as maintenance. Qualified staff is working all over the world for the customer's success.

Manufacturing

Körting Hannover AG demands high quality of its own manufacturing and combines more than 146 years of engineering expertise.

Modern fabrication technologies, high-quality materials, focusing on core competences and training of qualified personnel provide for ultra-modern manufacturing processes.

The close connection between manufacturing and testing guarantees highest quality and reliability.



Certifications (excerpt)

- TÜV Cert DIN EN ISO 9001 : 2015
- Manufacturer AD 2000-HP0 in connection with DIN EN 729-2
- CE 0045 according to directive 2014/68/EU
- ASME-U-Designator-Certificate
- Manufacture License of Special Equipment China (ML) Level A1
- TR CU Zertifikate (Russia, Belarus, Kazakhstan)
- UkrSEPRO (Ukraine)



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