

2024



PROCESSING MACHINES

FOR CHEMICAL & PHARMACEUTICAL AND FOOD PROCESSING INDUSTRIES



CENTRIFUGES

Pilot - Industrial - Vertical
- Horizontal - Batch -
Peeler - Continuous



MIXERS

Z-mixers - Conical Screw
Mixers - Vessel Dissolvers
- Wall Mounted Dissolvers



FILTER-DRYERS

Vacuum Ribbon Mixer
Dryers - Cabinet Try
Dryers - Agitated Nutsche
Filters



REACTORS & AUTOCLAVES

Stirred Pressure
Autoclaves and Reactors -
Hydrogenation Reactors

WHO WE ARE?

LEHMANN INDUSTRIE GmbH – we are a small private company located in the Bavarian Hallertau (in the immediate vicinity of Munich Airport), whose top priority is the customer satisfaction.

Decades of experience in trading with industrial equipment and machinery have made our team very successful throughout Europe. The positive response and satisfaction of our customers are the best proof of this.

We represent Czech manufacturers of process machines for chemical, pharmaceutical, cosmetic, and other industries, having an extensive experience in the manufacture of industrial equipment. Their professional expertise, know-how and experience are at the forefront of industrial equipment manufacturers not only in the Czech Republic, but also worldwide.

All these companies initially acted as suppliers for other European manufacturers and then decided to enter the market under their own brand. We are happy to support them in this.

As a result, we are able to offer a wide range of process technologies and solutions for processes, such as solid-liquid separation by filtration, mixing or drying. In addition, we have recently expanded our range to include packaging machines and lines for liquid products in solid containers.

Each of the manufacturers in our catalog specialize in customer-specific solutions. From the first step to the completion of each individual machine, we work hand in hand with experienced designers and engineers from the respective manufacturers. The customer satisfaction of working together to find a solution for each and every one of our customers is the key to our success.

Yours, Iveta Lehmann

WHAT WE DO?

We supply technologies and industrial solutions for processes, such as for **solid-liquid separation** and **extraction, mixing, drying, hydrogenation**, from lab, pilot-plant to industrial scale, for use in **fine chemical, pharmaceutical, cosmetic and perfumery industry, food & beverage, biotechnologies**, and many others. We can offer you the great portfolio of State-of-the-Art equipment for reasonable prices from European manufactures. All of suppliers, we have in our catalogue, are oriented on the custom made production tailored to every specific need of the client.



INDUSTRIAL CENTRIFUGES **SULTRADE** COMPETENCE IN TECHNOLOGY

Top discharge Vertical Peeler Centrifuges

Vertical basket top unloading centrifuges are the most common equipment for processing of multi-products in solid-liquid separation of pharmaceuticals, organic and inorganic chemicals, agricultural & food products, and textiles. They represent a reasonable investment and low maintenance costs.

- Basket diameters from **630 to 1000 mm**
- **ATEX** explosion-proof version with inertization
- Pneumatically operated **peeling knife** with vacuum transport of the product



Bottom discharge Vertical Peeler Centrifuges

Vertical basket bottom discharge peeler centrifuge is the highly used machine for automated batch solid liquid separation of pharmaceuticals, organic and inorganic chemicals, agricultural & food products.

- Basket diameters from **630 to 1000 mm**
- **ATEX** explosion-proof version with inertization
- Hydraulically operated **peeling knife**



Vertical Centrifuge & Dryer Pharma

Centrifuge & Dryer type CDR (a.k.a. CEDRY) combines the function of a centrifuge and dryer in one device. This equipment is manufactured under cGMP guidelines and ATEX directives as a multi-purpose device for centrifuging (separating solids from the liquid suspension) and drying (drying the dehydrated product under vacuum) in one working area.

- Basket diameters of **500, 800 and 1000 mm**
- **ATEX** explosion-proof version with inertization
- Pneumatically operated **peeling knife** with vacuum transport of the product

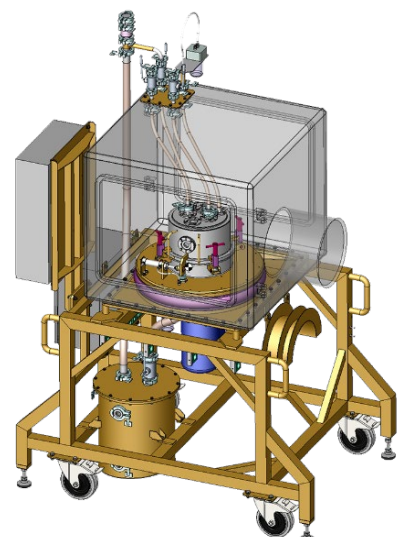




Vertical Gypsum Peeler Centrifuges

Vertical gypsum peeler centrifuges are an integral part of dewatering lines in the chemical industry after the neutralization of sulfuric acid and in flue gas desulphurization from coal-fired heating / power plants. Our centrifuges can be made entirely of stainless steel, avoiding the problems of rubberized parts (expensive repairs).

- Basket diameters from **800 to 1800 mm**
- **ATEX** explosion-proof version with inertization
- Hydraulically operated **peeling knife**



Vertical Centrifuges with Containment Systems

We have developed a range of basket centrifuges that are specifically designed to offer full glovebox containment for highly potent products in the pharmaceutical industry.

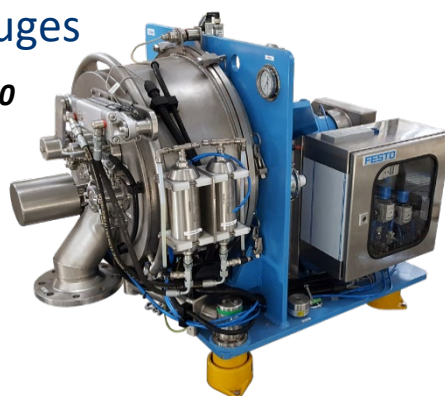
Vertical Pilot Centrifuges

- Basket diameters from **300 to 600 mm**
- **ATEX** explosion-proof version with inertization
- Special ergonomic design features for easy product transfer



Horizontal Peeler Centrifuges

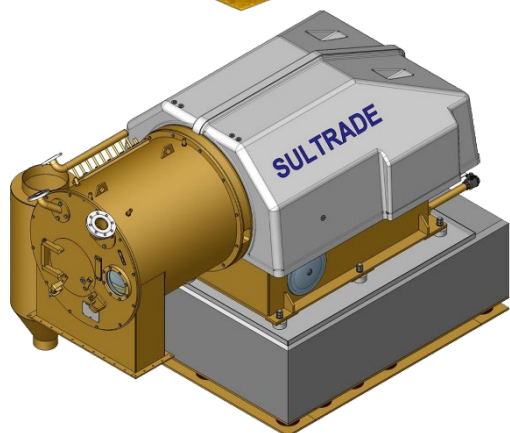
- Basket diameters from **400 to 2000 mm**
- **ATEX** explosion-proof version with inertization
- Hydraulically operated **peeling knife**



Horizontal Continuous Pusher Centrifuges

Horizontal peeler centrifuges are used extensively in the chemical industry for applications such as organic and inorganic chemicals, starch, agricultural products, food products, plastics, petrochemicals.

- Basket diameters from **230 to 630 mm**
- Output up to **25 tons / hour** solids



INDUSTRIAL MIXERS

Conical Screw Mixers

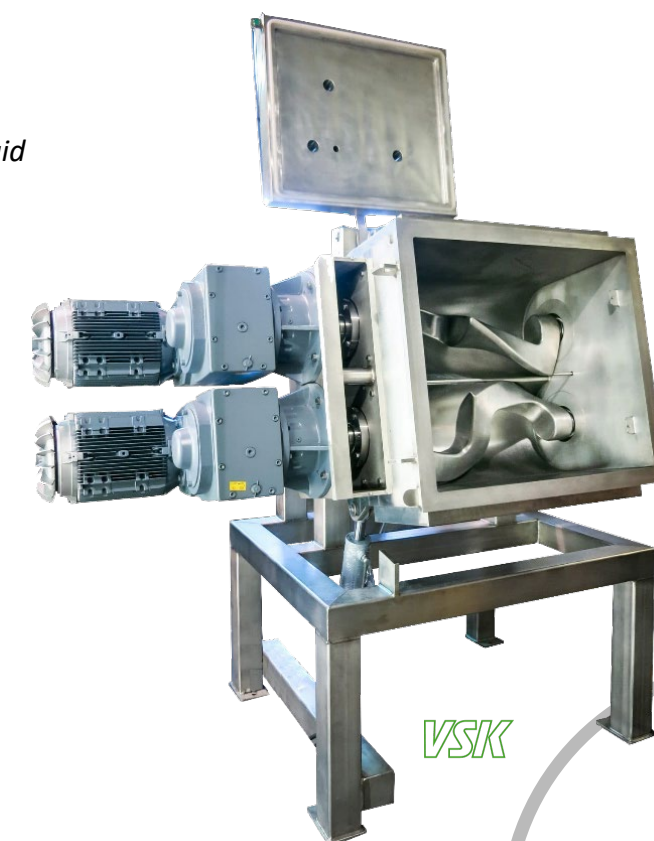


The PHARMIX conical screw mixer uses the well-known design of a rotating mixing screw attached to an orbiting arm that rolls along the wall of the conical vessel. These devices are typically used for intensive but gentle mixing and homogenization of bulk mixtures and find a wide range of applications from food and beverage preparation, through the production of pharmaceutical products, to homogenization of chemicals and paints.

- Working volumes from **50 to 5000 liters**
- Various grades of surface treatment
- Various outlet valves
- Various gearboxes (belt drive or bevel gear drive)
- **ATEX** version
- Pharma/food version
- Cantilevered mixing screw... and many others

Z- Mixers

- Mixing equipment for loose substances and thick liquid products
- Total volumes from 200 to 1000 liters
- Operating pressure -1 to 0 barg
- Operating temperature up to 120°C
- Heated jacket and heated lid – steam 3 bar
- 2 pcs of Z-stirrers, each independently driven by an electric gearbox
- Speed range 10 to 30 rpm
- Top lid – hydraulic lifting 110 °
- Hydraulic tilting of the container 100 ° for emptying and cleaning
- Surface grinded $Ra \leq 0.6 \mu m$
- 4 pcs of sealing – stuffing boxes
- PLC control panel with touch screen LCD
- Ex / ATEX explosion proof execution
- CE certificate, PED



VSK

VACUUM DRYERS

Horizontal Ribbon Mixer Dryers



Horizontal Ribbon Mixer Dryers consist of a U-shaped horizontal trough and a double ribbon agitator, where the outer ribbon moves the product in one direction and the inner ribbon moves it in the opposite direction.

Lab Conical Ribbon Mixer Dryers

Laboratory vacuum dryer intended to use in a glove box with the total volume of 4 liters.



Vertical Ribbon Mixer Dryers



Vertical Ribbon Mixer Dryer consists of the conical shape vessel body, drive unit on the top, helical blades on the central shaft and a discharge valve at the bottom.

The spiral stirrer moves solids upwards along the vessel wall, where it then (due to the force of gravity) falls down to the conus bottom. In addition are during this process solid particles thoroughly heated, which leads to a homogeneous product.

- Volumes from 50 to 1000 liters
- Compact helical ribbon agitator mixing without any dead space
- Operating pressure -1 to 0 barg
- Operating temperature -20 to 150°C
- Material of construction AISI 316L/Ti
- Mechanical dry rotating seal
- cGMP design, FDA validated
- CE certificate and marking
- Ex / ATEX explosion proof execution

Vacuum Cabinet Tray Dryers

Static Pressure Cabinet Dryers for drying of thermo-sensitive chemical, pharmaceutical, food and other products.

- GMP standards
- Working pressure -1 (vacuum) to 0 barg
- Working temperature up to 150°C
- Polished internal surface, rounded edges, dead-spot free design
- Infusion of air or nitrogen
- Material of construction:
 - Stainless steel (AISI 316 Ti, AISI 316, AISI 304)
 - Nickel Alloys (Hastelloy®)
 - Seals made of Silicone, PTFE, KALREZ®



Nutsche Filters

Company VSK has developed its own range nutsche filters used for solid-liquid separation by filtration under pressure and vacuum drying; in chemical, pharma, food industry and many others, from pilot plant to production scale.

- Maximum operating pressure from -1 (vacuum) to 10 bar
- Volumes 5, 10, 25, 50, 100, 250, 500, 1000 liters
- Perforated filter screen with a ring for filter fabric attachment
- Heated jacket (duplicator)
- Cake washing
- CIP / SIP washing and spraying systems
- CE certificate, PED, ATEX



Filter-Dryers

Company VSK has developed its own range of filter-dryers, used for numerous solid – liquid separation processes at various operational conditions, in chemical & pharmaceutical and other industrial branches.

- Operating pressure from -1 to 3 barg
- Volumes from 60 to 1400 L
- Operating temperature up to 200 °C
- Vacuum and/or heating
- Hydraulic agitator drive Bosch-Rexroth
- Bidirectional agitator with function “smooth” and “sweep”
- Adjustable speed of agitator 0 to 50 rpm
- Grinded or polished internal surface
- CIP / SIP washing and spraying systems
- CE certificate, PED, ATEX



Reactors & Autoclaves



Company VSK designs and manufactures custom made agitated reactors and autoclaves, tailored to every even very specific demand coming from fine chemical, pharmaceutical and food processing industry.

Hydrogenation Reactors & Autoclaves



Company VSK has designed a very unique State of the art construction of hydrogenation reactors, which are used in fine chemical, biochemical, pharmaceutical and food & fermentation technologies.

SOCIALZE

WITH US

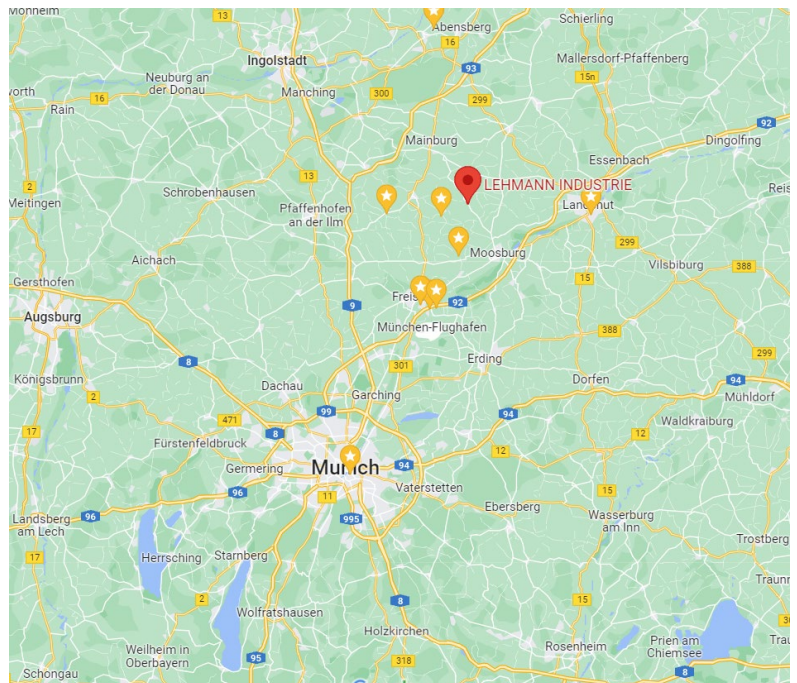
CONTACT US



Iveta Lehmann

*The customer satisfaction
is exactly in line with my
lifelong philosophy.*

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Trading company supplying process machines to the chemical,
pharmaceutical, cosmetic and perfumery industry, food & beverage, biotechnologies,....

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