

PROCESS EQUIPMENT AND SOLUTIONS

- Liquid Technology

Machinery, equipment and processlines in the fields of liquid technology, powder technology and laboratory equipment. Our customers are found in most industrial sectors, e.g. the chemical, pharmaceutical, mineral, metallurgy, food and plastics industries.



DISPERSING/HOMOGENIZING



STAINLESS STEEL CONTAINERS



NUTSCHE FILTERS/FILTER DRYERS



MIXING



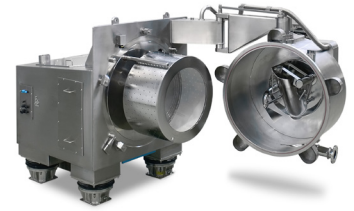
DISTILLATION



EXTRACTION



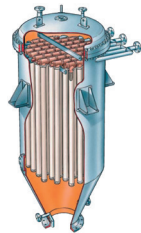
AUTOCLAVES/HYDRATION



CENTRIFUGES/DECANTER CENTRIFUGES



FILTER PRESSES



FILTRATION



GLASS/CHEMICAL REACTORS



GLASS-LINED REACTORS



COLUMN INTERNALS



AGITATORS





STATIC MIXERS



THERMOSTATS, HEATING/COOLING



Roland Carlberg Processsystem AB
Gothenburg +46 31 85 04 60
Uppsala +46 18 30 22 73

 www.rcprocess.se
 www.lab.rcprocess.se

ROLAND CARLBERG
Processsystem AB

A SELECTION OF OUR PARTNERS IN LIQUID TECHNOLOGY



Chemical reactors and pressure autoclaves made of glass, glass-lined steel or stainless steel. For lab, pilot and production scale. Reactors with magnetic stirrers for completely closed processes. Mobile Pilot reactors 5-30L in compact design, based on high quality components and "Büchiflex" connection system.



Filter presses with standard filters and membrane filters. Special adaptations for corrosive and abrasive materials. Compression, washing and drying. Quick filling and emptying.



Fundabac candle filter system for solid-liquid separation. Solids discharge as a dry cake or as a thickened slurry.



Glass-lined components for corrosive / aggressive processes and media and strict hygienic requirements. Pipe fittings, pipe parts, pipe bends, valves, columns, tailor-made solutions and special parts.



Horizontal and vertical scaling centrifuges. Pusher centrifuges for continuous filtration. Vertical top-emptied centrifuges on a pilot scale.



Thermal separation, recycling, and sustainable energy. Falling-film and thin-film evaporators, short-path distillation, heat exchangers, drying systems, and industrial heat pumps.



Decanter centrifuges for continuous liquid / solid phase separation. Custom built decanting centrifuges tailored to specific customer requirements as well as turnkey plants. ATEX and hygiene versions.



Ministat and Unistat heating and cooling thermostats. Open and closed heating baths for temperature ranges from -125 ° C + 425 ° C. Easy operation with Pilot One control panels. Oil baths for lab purposes and larger closed thermostats for pilot plants / production plants.



Machines for mixing, dispersing, homogenizing and wet milling to the rotor-stator principle. Batchwise and continuous processes. Complete plants for mixing and dispersing and for mixing powder in liquid phase (inline) or batchwise.



Nutsche filters and filter dryers for filtration and drying in an enclosed system. Funda filter. Complete systems with control systems, vacuum systems, heating and cooling thermostats, insulators.



Processing solutions for the pharmaceutical, cosmetic and biopharmaceutical industries. Equipment for solid, semisolid and liquid products. Vacuum mixers for ointments, creams and pastes. Vacuum dryers (double conical dryers), reactors and preparation vessels.



Glass-lined reactors complete with agitators, baffles and associated instrumentation. Heat exchangers, valves and measuring equipment for liquid analysis of e.g. pH and temperature. Mechanical seals.



A wide range of stirrer designs that can handle a wide viscosity range. From small lab stirrers for a few liters up to large process agitators for hundreds of thousands of liters.



IBC-containers in stainless steel in many standard solutions. Also customized for many purposes. Approved containers for transport. Heating containers with control panel.



Equipment for evaporation, separation, liquid-liquid extraction and absorption. Distillation columns, thin film evaporators, column internals, structured packings and column bottoms. Static mixers for continuous mixing.



Automated laboratory and scale up reactors, FlexyLab, calorimetry system for process scale up in glass or stainless steel. Complete systems with software for optimization and automatic process documentation.



Gas scrubbers and mist eliminators that efficiently remove particles and contaminants from gas streams. Customized to suit the process, contamination level, and operating conditions.



Complete process filters in standard design and tailor-made solutions. Filter bags, cartridge filters, depth filters, multi-layer filters, metal filters and self-cleaning filters.



Complete facilities for hydrogenation. Biazzi reactor with high mass transfer and large heat transfer surface. Lab reactors for gas and liquid reactions.

