



SpinChem[®] ProRBR



Process rotating bed reactor

The SpinChem® ProRBR is a series of concepts for implementing the RBR technology into process equipment for treatment of volumes from 100 L to more than 1000 cubic metres. This addition to the RBR technology, enables seamless scale-up of processes; from bench-top screening and laboratory trials, all the way up to pilot plants and full-scale production.

This technology enables time and resource efficient biocatalysis, extractions and purifications in fields such as the production of pharmaceuticals, fine chemicals, cosmetics and food items, as well as in water treatments and nuclear waste management. All products are designed and optimized for specific process requirements and thus adapted for every customer's individual needs.

- Industries including pharmaceutical, nuclear, cosmetics and fine chemicals
- Liquid volumes of 100 L to > 1000m³
- Seamless scalability up to full-scale production
- Processes such as catalysis, extraction and purification



Batch

By replacing a pre-existing stirrer with a ProRBR, or installing it through a man-way, the ProRBR is used in-tank for batch mode processing. The design and size of the ProRBR is optimized for the process, tank and surrounding equipment. This ensures thorough mixing, as well as time and resource efficient processing.



Flow

In a flow configuration, the ProRBR is mounted in a separate vessel (e.g. an intermediate bulk container) connected to the main tank. The ProRBR both processes the liquid and pumps it between reservoirs, eliminating the need for external pumps. After passing the vessel containing the ProRBR, the processed liquid can either be redirected back to the main tank, or onwards to an additional reservoir.



Contact SpinChem

The core foundations of heterogeneous processing large liquid volumes have forever changed, and in center of the transformation stands the SpinChem® ProRBR. Get in contact to discuss how SpinChem can transform your process.

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