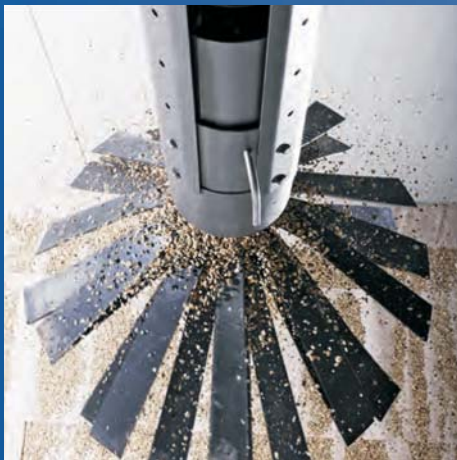




CATALYST & REACTOR SERVICE





## Catalyst Service & Reactor Service

It is hard to imagine current processing systems without catalyst reactors. The exchange of catalysts under inert conditions is a job exclusively reserved for specialists. Our key business activities include the emptying of reactors with specially-designed air suction systems for a precise vacuuming and packaging in approved containers as well as high-quality catalyst screening.

Working under inert conditions requires specialised respiratory protection. For such activities, we exclusively use the LSS Life Support System. Furthermore, constant gas monitoring, camera and video surveillance are also included within the scope of this activity.

For loading reactors with catalysts, we offer our customers all internationally-renowned dense loading procedures. Furthermore, specially developed loading machines for tube reactors are also included within our equipment range.

For our customers, catalyst management means receiving a complete service - from planning, consultation and plant preparation, to the unloading, inspection and loading of reactors as well as regeneration, disposal and logistics activities.

Catalyst handling and reactor maintenance go hand in hand. During shutdowns, modifications and repairs, distributor trays, support grids, quench boxes and other reactor internals must be professionally mounted and dismantled.



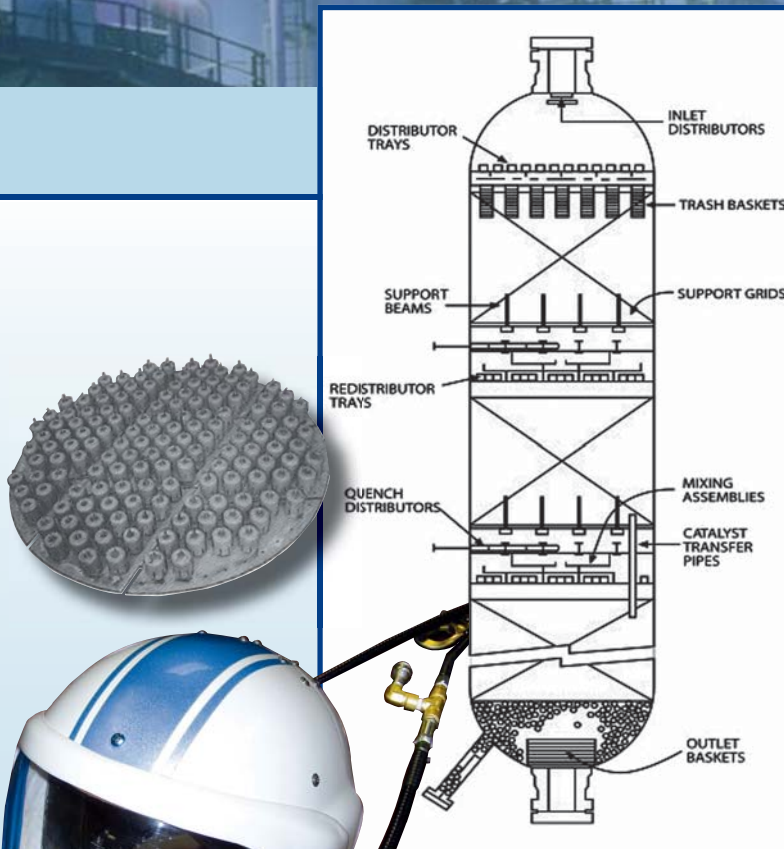


## Active throughout Europe

We also carry out repairs on fixed-bed reactor internals as well as the complete mounting and dismantling of fluid-bed reactors such as FCC and CCR reactors (UOP-IFP). The works on the internals are recorded and documented using cameras/DVDs. This therefore allows decisions to be made quickly.

This all takes place under 100% N<sub>2</sub> conditions in order to save time and guarantee a high degree of safety. Time is money for our customers and a high quality of work ensures a longer production cycle of the reactors.

On the basis of our international company platform, we are able to offer you our services throughout the whole of Europe. Our quality and safety standards meet international requirements according to ISO 9001, SCC<sup>\*\*</sup>, PBNA etc.







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