

Technology partner in the field
of special plant engineering for
industrial and reactor services



Specially designed high vacuum suction units



We are the first enterprise to develop



high vacuum suction units in container design. Our mobile systems are incorporated in 20" containers.



They have permission to be transported on the road, by rail, by sea and by air.

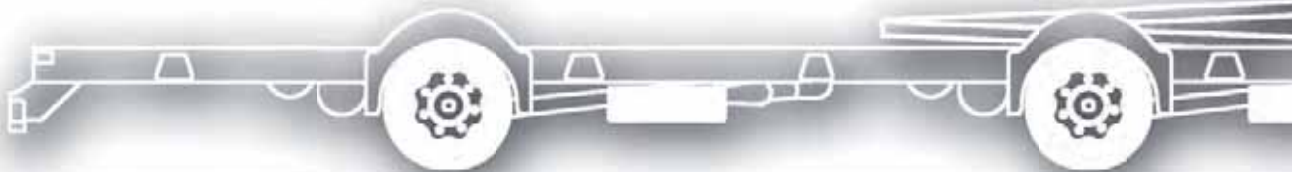
Modular vacuum technology



With our mobile technology modules for various fields of application and different



bulk goods, we offer you utmost flexibility at lowest investment



Breathing protection – life support systems

Life support systems have been used worldwide for more than 30 years. LSS are needed whenever people must be supplied with breathable air.

Three independent supply lines including voice radio, and a breathing protection helmet which cannot be removed uncontrollably – this is the safety concept of NASA.



We offer you all components from one source:

- Integral breathing protection with anti-panic lock and trip supply for the operator
- Integrated communication system between operator, control system and safety man
- State-of-the-art gas measurement technology
- LSS trailer for the simultaneous use by up to five operators
- Camera and DVD recorder
- Breathing protection equipment such as gas protection suits, gas protection masks and cooling jackets

Screening and conveying technology

- Equipped with fine filters, discharge lock, nitrogen recirculation and cooling for works accomplished under nitrogen conditions
- Engine output: 240-320 kW (diesel engine)
- Conveyor capacity: 4,000-8,600 m³/hour
- Suction capacity: 90% vacuum
- Optionally available on a swap trailer, as a trailer, or as a fixed superstructure



- Screening machines of different sizes for any kind of screening material
- Large-scale systems for the fractioning of large quantities in large containers or plants
- Conveyor belts for reloading and decanting in requested packing units



and reduction of current costs.



- Individual combination of modular elements
- Suction processes in modules of different sizes
- Simultaneous separation of small particles
- Packing in desired packing units
- Transport to or unloading at requested places



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State-of-the-art gas monitoring is mandatory in refineries. We classify two types of monitoring: Our LSS offers full protection when working in vessels/columns/reactors by continuous measurements, documentation and warning signals with appropriate sensors for hydrocarbons and O₂/N₂ atmospheres.

Creeping gases with explosive character may occur anywhere. They may be released unintentionally during revision works when maintaining the systems. Our personal warning devices send out early warning signals giving enough time to leave the danger zone. Camera, video and DVD documentation have become an integral part in industrial sectors. Our systems are particularly suitable for recording system revisions and pipeline inspections, container approvals and also approvals for the reassembly and filling of containers in non-breathable atmospheres.

Loading technologies

For catalysts, molecular sieves, activated carbon, perlites, and other granulates



The so-called sock and dense loading methods are gentle loading processes required by the industry.

Sock loading is the loading of e.g. catalysts avoiding free fall. Dense loading is a process for loading reactors/vessels achieving the continuous loading of catalysts at a specified density with a constant loading level.



Our technology meets all requirements with regard to high-quality loading results.

We have developed belt conveyors or high-frequency oscillating conveyors for the loading of reactor bundles (tube reactors). With our technology, continuous loading at a constant compression strength on each pipe is possible without destroying the material.



We supply dense-phase conveyor systems tailored to your requirements and needs.

Conveying material over a height of 70 meters and in volumes of up to 20 tons per hour without destroying the material is no problem with our device.

We transport your catalyst material to the reactor top without a crane and irrespective of the weather conditions.



We offer custom-made technologies which your customers expect from you.

Please contact us for consultation. We will visit you at your company.

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