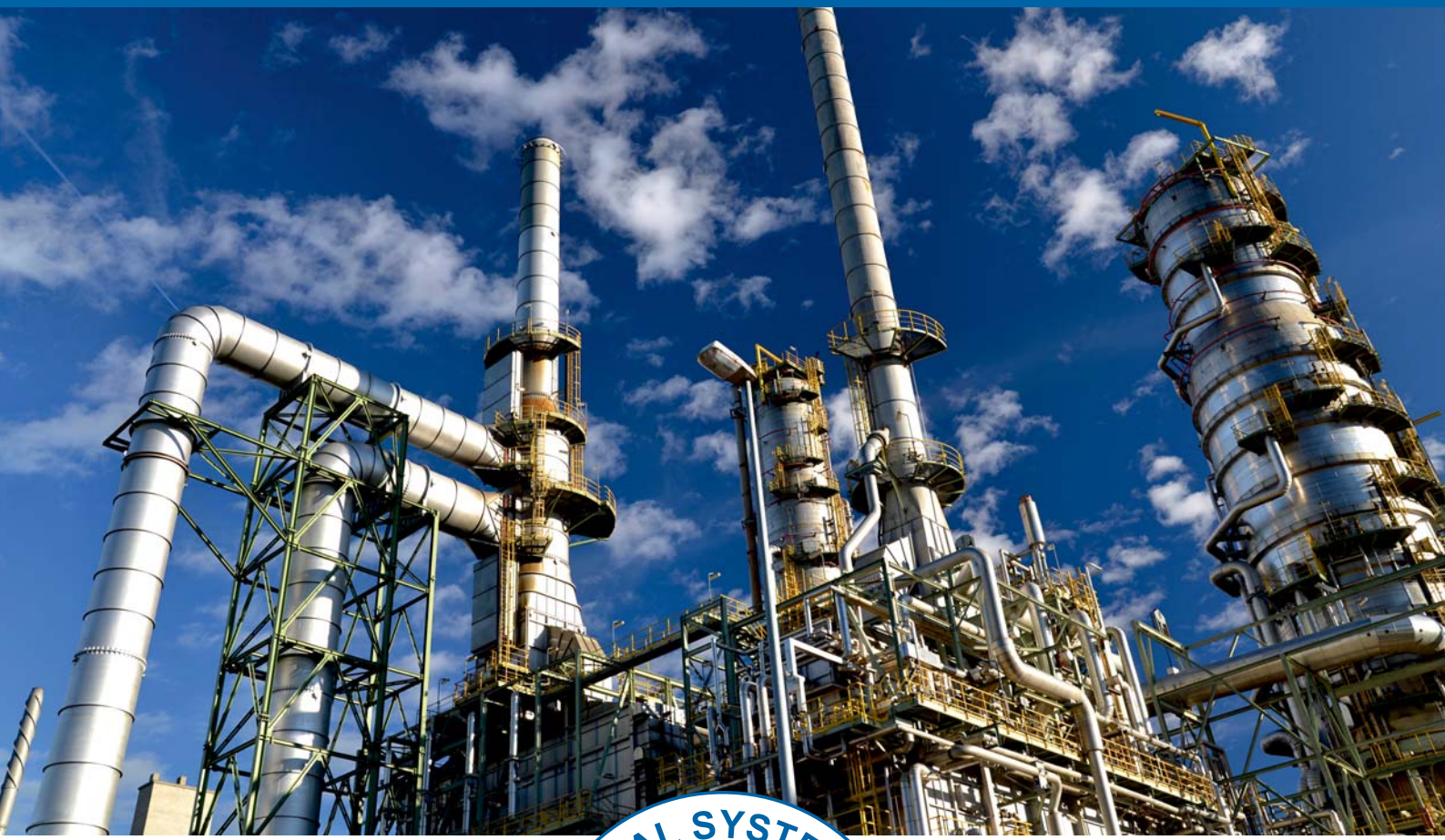


R&R[®]
BETH



Turnkey plant construction - globally networked



www.rr-beth.com



R&R-BETH is an internationally active technology company in the field of filter, suction and dust removal technology with highly qualified and motivated staff.

The constantly growing needs of our customers and the steadily changing processes of the markets are the driving forces of our expansion for the dynamic and organic growth of our company. Targeted acquisitions in relevant markets support this strategy.

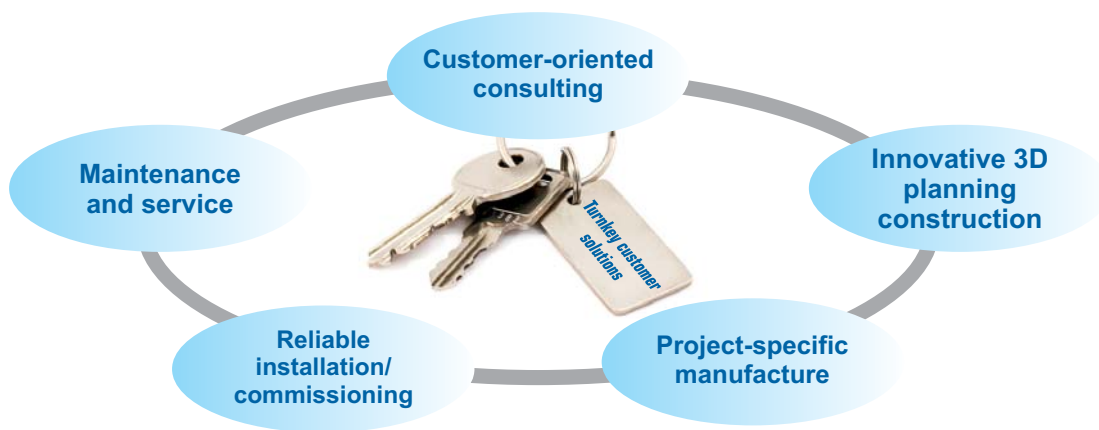
The family spirit in our proprietor-run company is an essential basis for the motivation of our employees. The associates, the management team as well as all employees build a community with a climate for good ideas and highest commitment.

Traditional values and experiences as well as sound education of young people are the basis of our sustainable growth. During the process, we seek active exchanges with colleges and universities as a bridge to science.

Individual assembly groups and complete turnkey facilities are designed, manufactured and installed by our employees with greatest of care and highest professional expertise. Reliability, high efficiency and durability must be guaranteed by our products in customer-specific facilities. Functionality, efficiency and quality are the guiding principles of our product ideas and development activities.

Jointly with our partner companies, we succeed in securing all those requirements, which are necessary for a smooth work process, from planning to installation and commissioning to maintenance of your facility.





We serve all these industries worldwide



Automotive industry



Recycling and waste recycling trade



Energy, coal and biomass producers



Aviation and railways industry



Stone and earth industries



Plastic and rubber industry



Chemistry and pharmacy industry



Wood and wood product processors



Paper and cellulose industry



Food industry



Paint industry



Iron and non-ferrous metal industry



Textile industry



Non-woven / hygiene industry



Electro technology industry



Glas and ceramics industry

Bag filters



Bag filters



Bag filters
Double filters



Horizontal filters



Round filters

Wet electrostatic precipitators, cyclones



Wet electrostatic
precipitators



Tar electrostatic
precipitators



Oil mist electrostatic
precipitators



Cyclones

Dry electrostatic precipitators



Mini electrostatic
precipitators



Small electrostatic
precipitators



Standard electrostatic
precipitators



Industrial electrostatic
precipitators

Fibre separators, lint filters, fibre compactors



Drumfilters



Prefilters TVM/N



VersaDrum™ filters



Fibre compactors

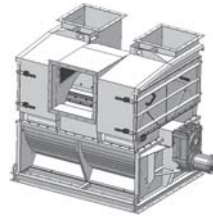
Compact filters, separators, fans



Universal compact filters



Compact filters



Rotary valve separators

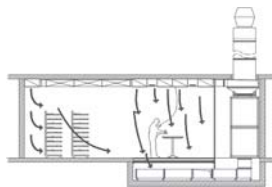


Fans

Sorting cabins, clean rooms, paintspray cabins, pipeline systems, steel construction



Sorting cabins, clean rooms



Paintspray cabins



Pipeline systems



Steel construction

Silos, loading systems, chimneys, safety systems



Silos



Loading systems



Chimneys



Explosion protection

Spare and wear parts

R&R-BETH provides spare and wear parts as well as the corresponding installation measures for own products and third-party existing plants.

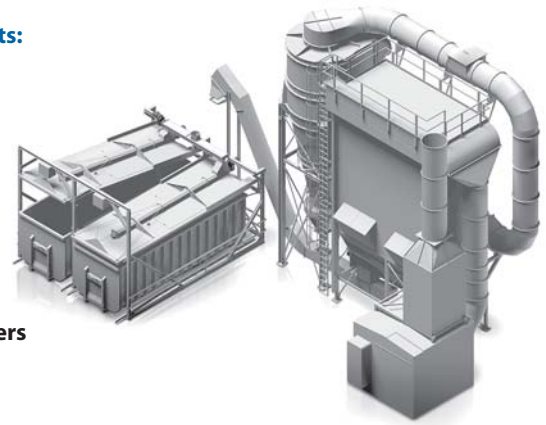


Industrial filter systems

Due to the specific project, we will jointly find an individual solution for your needs. Our modularly product enables a customer-oriented plant optimisation with respect to energy efficiency, availability and ease of operation. Our know-how and products integrate into the process-technological cycle of your existing or planned process. Our diversified range of filter systems and separators always offers a solution for your tasks. You get the entire range of accessories, such as components for explosion protection.

Exemplary components:

- Bag filters
- Cyclone filters
- Compact filters
- Cartridge filters
- Round filters
- Special filters
- Cyclones
- Activated carbon filters
- Biofilters
- Separation sluices
- Scrubbing systems
- Separating systems



Flue gas filtration

R&R-BETH offers you state-of-the-art flue gas cleaning technology, which is tailor-made for your combustion process. An efficient flue gas treatment is achieved due to a combination of various cleaning steps. Which always depend on the existing application as well. Our system solutions are able to safely filter out dust, aerosols and chemical elements from the exhaust gas flow in various temperature ranges.

Exemplary components:

- Hot gas fabric filters
- Dry electrostatic precipitators
- Wet electrostatic precipitators
- Tar electrostatic precipitators
- Wet scrubbers
- Additive systems
- Cyclones



Drum filters and components

Handling of fibrous airflows makes particular demands on the filter technology. We can serve all these applications by means of our drum filters and special separators. In comparison with conventional filter systems, their advantages include high-energy efficiency, low maintenance effort and low investment costs in particular.

Application in various industrial sectors:

Textile • Non-Woven • Wood • Cellulose • Paper • Tobacco • Fibre glass • Hygiene • Automotive industry • Pharmaceutical industry • Surface coating • Powder manufacturing

Exemplary components:

- Drumfilters TFB/C
- Prefilters TVM/VFA
- VersaDrum™ filters
- Cyclones ZSA/ZSB/ZSC
- Fiber compactors FKA/FKC
- Compacting Power Screw CPS/SKP
- Bale Presses
- Air washers, High Pressure
- Air Humidifier



Odour reduction & separation of pollutants

One of the biggest challenges when recycling composting processes, just as in agricultural operations, is handling any occurring bad odours. We develop for you intelligent ventilation concepts for the reduction of odour nuisance. Likewise, we offer various strategies for odour reduction and neutralisation.

Exemplary components:

- Air curtain systems
- Scrubbing systems
- Biofilters
- Activated carbon filter systems
- Ionisation systems



Sorting cabins, clean rooms, Process and sound insulation enclosures

With the sorting cabin from R&R-BETH, you get a high-quality, state-of-the-art system. It fulfils all relevant safety requirements of the relevant guidelines in the area of application.

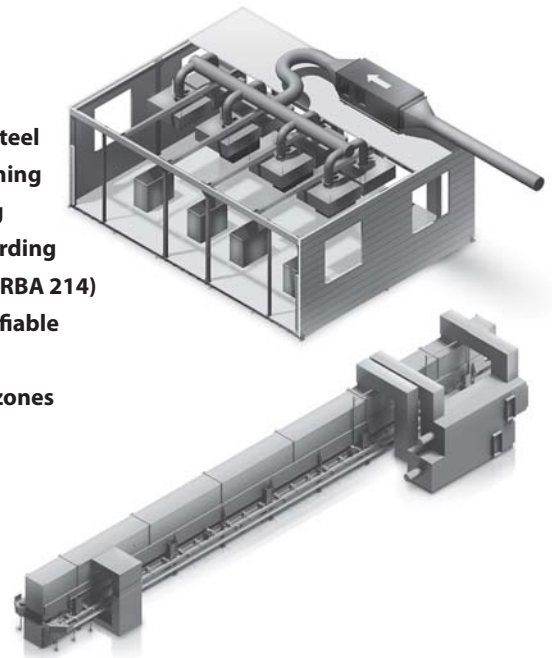
We are also your partner for complete turnkey systems.

We design and install large plants as well as complete industrial halls all over the world.

Your production process gets the suitable design in consideration of the local requirements.

Exemplary components:

- Complete solutions with steel construction, air conditioning and electrical engineering
- Technical Equipment according to valid regulations (e.g. TRBA 214)
- Static calculation and verifiable statics (on request)
- Air-conditioned working zones
- Enclosure



Constructive steel construction

Our scope of services ranges from basic and detail engineering to the completion and installation at the relevant global location. For all of our steel construction designs, you will get verifiable documents such as static verification of the system. Our manufacturing processes are certified according to EN 1090-2.

Exemplary components:

- Exhaust hoods and enclosures as well as their supports
- Suspensions, fastenings, bridges and supports for pipe and channel systems
- Filter and pre-separator supporting structures, penthouse and weather protection houses
- Stages, platforms and access ladders for inspection and maintenance accesses
- Building steel structures (constructive steel structure)
- Supports for cabin and process enclosures
- Support constructions for customer supplied components



Paint mist extraction systems and spraying rooms

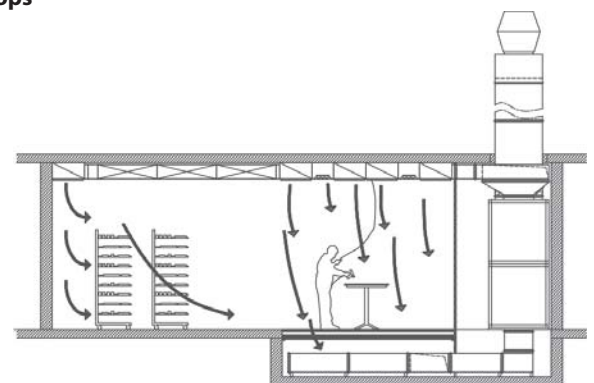
Colour coating is your product's outfit and, as is generally known, visual impression also count. Increase the safety of your operations and the health of your employees. Minimise explosion hazards and the risks of final treatment by means of the know-how of our technologies. At the same time, the energy costs are reduced to a minimum while high-end quality keeps being constant.

We design and deliver complete plant systems for the ventilation of spraying and dry rooms, grinding plants and special applications.

Optimised to meet your requirements we design a paint shop for you, which guarantees a maximum workflow for high-end surfaces with low energy input.

Exemplary components:

- Complete plants for paint mist extraction and fresh air supply
- Automated paint shops
- Dry rooms



Pipeline and channel systems

For the variable requirements of our customers, we design, manufacture and install pipe systems in various steel and stainless steel grades. We also implement special static requirements on freely suspended pipeline systems, e.g. freely suspended pipe systems without additional support construction. We adjust the material qualities (abrasion and chemical composition) and the wall thicknesses of the pipe components to the transported media.



Silos and storage containers

In many manufacturing processes, it is necessary to safely store raw and residual materials as well as intermediate products. R&R-BETH provides individual solutions in consideration of all safety-relevant precautionary measures.

Our product portfolio ranges from small intermediate storage containers to large storage silos with more than 1,000 cum storage volume including all necessary discharge systems.



Chimneys, exhaust gas systems

At many locations worldwide, our large exhaust stacks for discharging various process exhaust air become clearly visible at first. According to the thermal, chemical and physical composition of exhaust air as well as to the construction and planning regulations, we design and manufacture your individual exhaust air system.



Explosion and fire protection systems

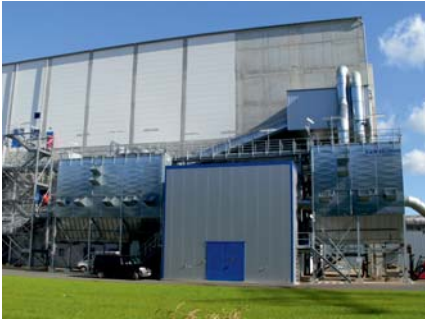
The best way to minimise risks is prevention in advance.

R&R-BETH helps you increase the safety at your work places. We design complete fire and explosion protection solutions, which satisfy all legal requirements and relevant standards.

- **Facilities for explosion pressure relief**
- **Systems for explosion decoupling**
- **Explosion suppression systems**
- **Devices and components for the explosive area according to ATEX**
- **Spark extinguishing systems**

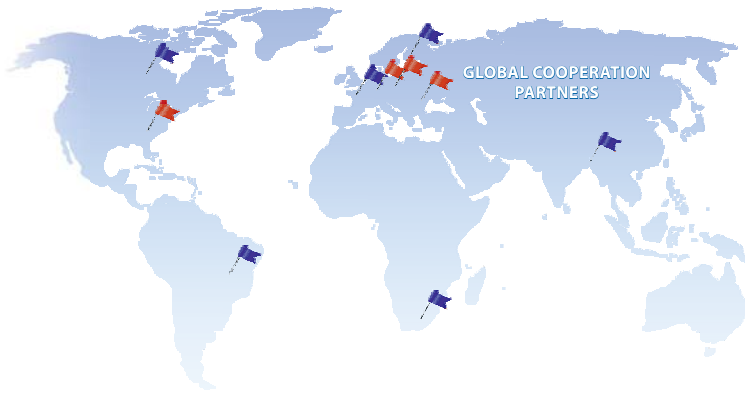
Do not get blindsided by any event - use our R&R-BETH expertise in order to avoid explosion and fire damages and minimise hazards. The well-being of your staff and your company may depend on good explosion protection!











GLOBAL COOPERATION PARTNERS

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R&R[®] BETH

Technologies protect living spaces of present and future generations



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