



# Components for pre-treatment lines



Heavy beams, large components, rough operating conditions – this is what our rectangular tanks are designed for. By constantly cooperating with our customers, we plan and work out the individual tank solutions for the different process stages in the pre-treatment line. Our tanks are used for example as bath containers for degreasing, chemical stripping, acid cleaning, flushing, flux or post-treatment.

Our range of services includes

- › Pre-treatment tank
- › Enclosure and exhaustion of the plant
- › Acid management
- › Assembly
- › Commissioning
- › Refurbishment
- › Maintenance

The thorough planning of the pre-treatment lines comprises the upstream and downstream parts of the plant. For this reason it should be integrated into the overall concept (building planning, permit planning etc.) at an early stage.

Comprehensive equipment accessories, such as

- › Heat exchangers
- › Ground protection plates
- › Filling and emptying devices
- › Covers
- › Ventilators
- › Suction channels
- › Storage tanks
- › Lifting beam supports
- › Compensation feet
- › Temperature sensors
- › Inspection systems
- › Air injection devices
- › Pipelines
- › Pumps
- › Wet scrubbers

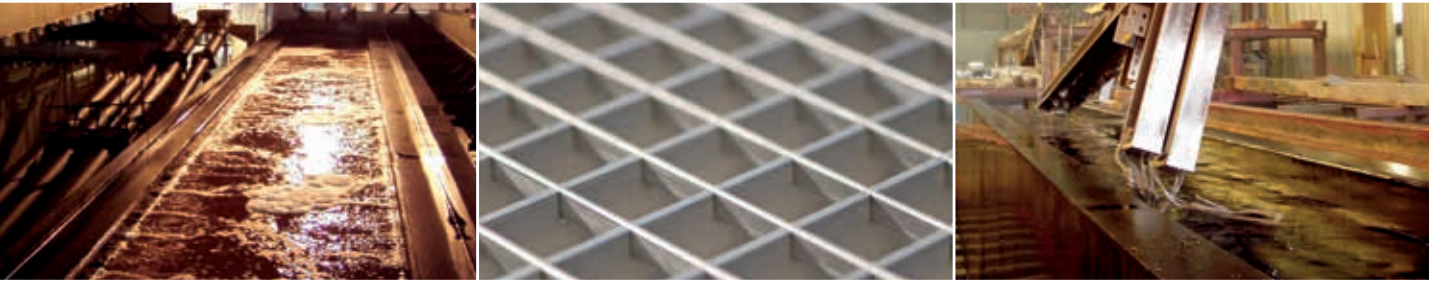
and many more complete our product range.

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# Components for pre-treatment lines



Lifting beam supports and guiding aids made of PE or PE/steel reinforced serve for the correct positioning of the jig. The tank construction depends among other things on the weight and the number of support points of the Lifting beam. Loads must be absorbed and included in the structural analysis of the tank. The major advantages of the PE material are especially the easy cleaning (due to the fact that the surface of the material is smooth), the special impact resistance (also at low temperatures), the chemical and UV resistance as well as the DIBt approval.

If officially required or on request of the customer, we completely enclose the pre-treatment line in order to protect the plant parts and the operating personnel from the aggressive exhaust air. Inside of the housing, the generated exhaust air is directly aspirated and guided through a scrubber system.

PE material is used for the complete design of the ceiling lining, the frame covering and the cup lining. As it has the same specific behaviour, problems caused by crack formation and tension are excluded.





# Components for pre-treatment lines



Different types of tanks cover the range especially required for hot dip galvanizing factories and the pipe industry.

Possible designs of our tanks

- PE inliner/steel reinforcement/external PE lining
- PP inliner/steel reinforcement/external PE lining (on special request of the customer)
- PE inliner/steel reinforcement with acid-resistant coating, coat thickness 500 µm
- PP inliner/steel reinforcement with acid-resistant coating, coat thickness 500 µm (on special request of the customer)
- PE inliner/steel reinforcement/external GRP coating
- PE inliner/steel reinforcement/external GRP coating (on special request of the customer)

Depending on the requirement, our PE tanks consist of a PE liner, a steel framework as a static element and an external PE lining. The inliner and the external sheathing are tightly welded together. Therefore, the attack of the steel reinforcement by aggressive media is excluded.

Instead of the external PE lining it is possible to apply an acid-resistant coating with a coat thickness of 500 µm onto the steel

frame. However, this requires the sealing of the pre-treatment line to the catchment tank.

The design of the PP tank corresponds to the design of the PE tank. We use the PP tank only in special cases or on special request of the customer.

The PE/GRP and/or PP/GRP tank consists of a thermoplastic inliner with GRP coating, a steel framework as a static element and an external GRP coating on the steel reinforcement.

Our PE rectangular tanks have proven for years in the different application areas in pre-treatment lines. Thanks to continuous further development of the PE material, the PE 100-RC is one of the most modern materials at our disposal. Therefore, we can offer our customers tanks with the highest durability for chemical application and a very high level of impact resistance in case of a mechanical load. The application of the tanks is flexible to a large extent and can be freely selected within the plant. Regarding the colour you have the choice between black and blue (RAL 5005).





# Refurbishment of existing plants and tanks



With the help of a refurbishment plan we work out a comprehensive concept. When planning and effecting the refurbishment works we stand out with flexible solutions which consider individual budget allowances in an optimal way and ensure an execution within the agreed time.

Our range of services includes:

- Subsequent catchment tank lining
- Repair of individual tanks (tiled baths, steel tanks, GRP tanks etc.)
  - Lining (design also with two double wall liners)
  - Corrective works
  - New coating
- Replacement of single tanks
- Storage tank refitting
- Enclosing
- Pipeline renewal
- Refurbishment of the entire plant
- Maintenance and cleaning works







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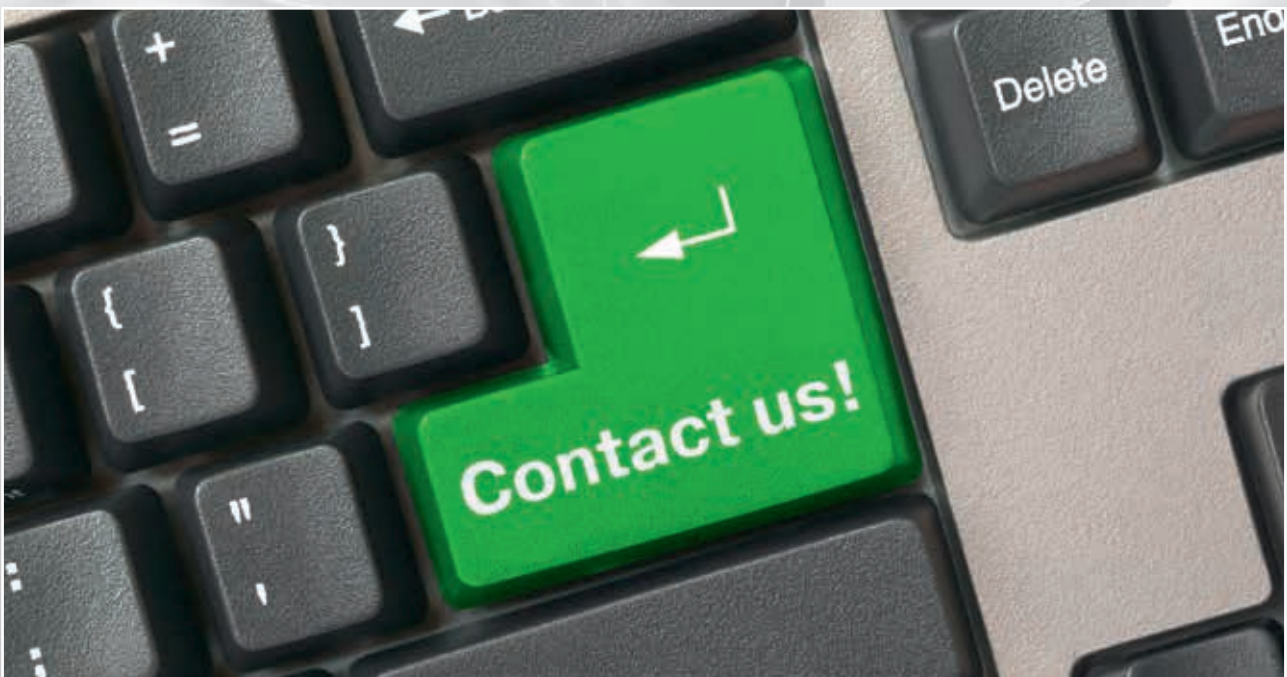
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Subject to technical modifications within the scope of technical progress.  
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