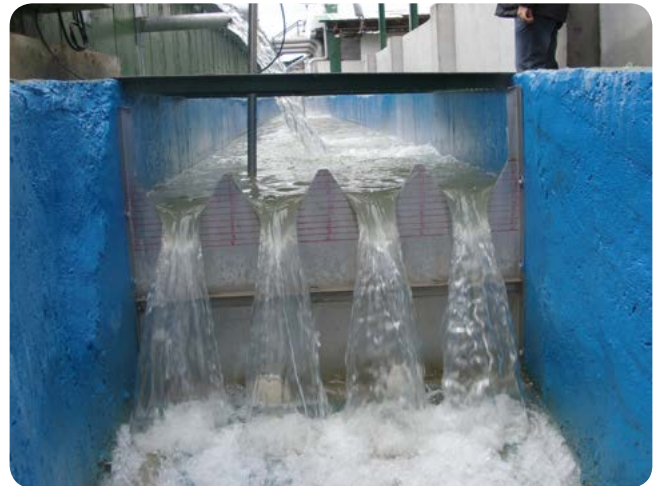


Something you can rely on:

**The result of our
work is clear.**

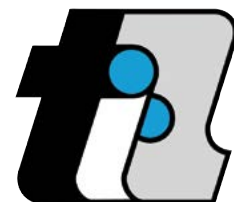
Technologies for wastewater
treatment and water processing





Industrial know-how: a clear benefit

Feathers · Breweries · Chemicals · Casings Processing · Landfill · Electronic Industry
Energy Generation · Soft Drinks · Vinegar · Fish · Meat Processing · Aircraft Industry
Spices · Rubber Products · Wood Processing · Potatoes · Municipal · Compressors
Hospitals · Plastics · Food Colours · Convenience Products · Milk and Cheese · Food
Refineries · Juices · Slaughterhouses · Transport · Cooking Oil · Steel · Confectionery
Textile · Wineries · Cereals · Oil Recycling · Paper · Central Industrial WWTP



Transparency in our range of services:

This is what you can expect from TIA.

Since 1987, TIA has been providing technologies for industrial and municipal wastewater treatment.

Therewith, we solve tasks industries and municipalities have to face handling their water and wastewater:

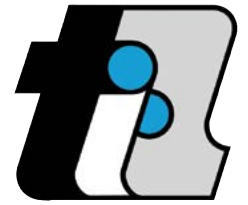
- Turn-key and custom-made plants for complete or partial treatment of wastewater
- Single plant components for wastewater treatment or recycling
- Refurbishment, optimization and extension of existing wastewater treatment plants
- Application of our own testing plants on-site
- Repair and spare part service
- Inspection of wastewater treatment plants, development of concepts, personnel training, holiday replacement, repair, process optimization etc.

TIA offers several and individually designed possibilities for **pre-treatment** of wastewater. Furthermore **biological and chemical-physical purification processes** used for cleaning up to the point of conditioning wastewater for internal **re-use** (recycling).

Several process steps and procedures for wastewater treatment are always necessary. For some of the processes, TIA uses well-proven technology. But the key technologies, such as **flotation, lamellae-separators** and **biological processes** have been designed by TIA, partially developed in co-operation with universities.

Within these developments, TIA could establish itself in many European countries, Asia, Africa and Arabic states. In all these countries local partners undertake the business of consulting and after-sales service, always in consultation with TIA (experience since 1987).





Smooth-flowing project implementation:

We are there for you every step of the way – and thereafter!

TIA offers customised and turn-key solutions for almost all wastewater and recycling problems.

For this purpose, TIA chooses the single wastewater treatment processes specifically, taking process engineering as well as economic factors into account. Thereby the optimal solution for the specific operation and business can be achieved:

- Safe and stable operation of the cleaning process
- Distinct operation structures
- Adaptability to modified operating conditions
- Attractive investment and operating costs

Of course TIA and her partners are also available for after sales service nationally and internationally:

- Process engineering services
- Process maintenance services
- Spare part services

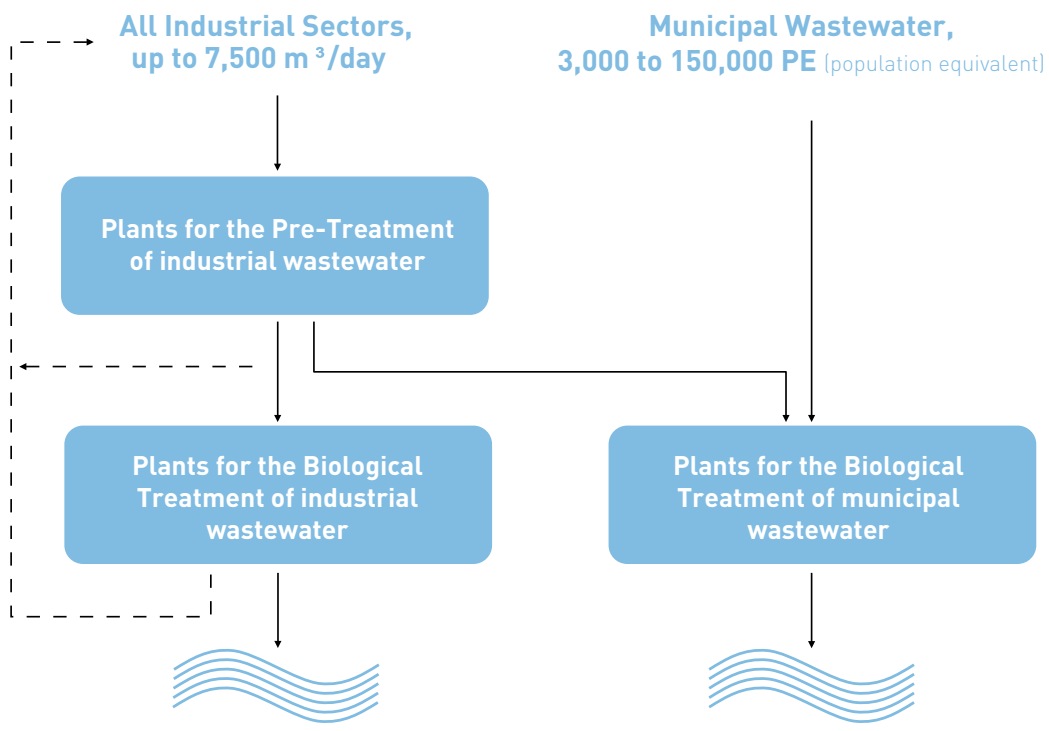
Industry

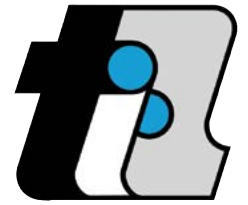
TIA GmbH provides complete wastewater treatment plants used for pre-cleaning and the thorough treatment of wastewater. TIA also offers extensions to complete existing clarification processes as well as the refurbishment of older plants.

TIA refers to experiences based on reference plants of diverse capacities (from 20 to 7,500 m³/day) in a wide range of industry sectors.

Municipalities

TIA offers standardized COMPACT-System plants for municipal wastewater treatment: reliable and fail-safe units varying from 3,000 to 25,000 population equivalents. The system can be expanded arbitrarily by parallel lines up to a capacity of 150,000 population equivalents.





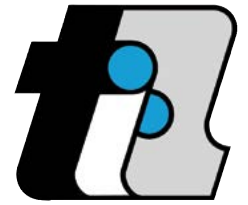
Let us be clear:

We offer the right process for every type of pollutant.

TIA generally provides all process steps employed in wastewater technology which can be combined to an overall solution. Thus the ideal wastewater treatment plant can be custom-assembled.

For the single process steps we revert to sound and established products in the market on the one hand. On the other hand, we apply and assemble our own developments which are just as proven and tested:

- The patented ARS process: developed by TIA in cooperation with the Technical University of Hamburg. This process has proven to be an outstanding stability and efficiency factor in our biological wastewater treatment plants for years.
- The sludge recirculation by air-lift pumps is an established, robust and maintenance-free technology that we ourselves have rendered predictable and standardised. It ensures the operation of the secondary clarification and completely rules out mechanical malfunction.
- Our flotation technique is inspired by and based on industry experience, where the two-phase pump technology has been employed successfully for a long time. This technology optimises economic efficiency as well as operational reliability.
- The TIA control technology has been developed to ensure operational reliability and largely eliminate maintenance and operating errors.
- The use of immobilised microorganisms on fixed-beds or on biofilm carriers has been developed in cooperation with universities and research facilities.



It clearly goes without saying:
**we will gladly make you
a suitable offer.**

**TIA Technologien zur Industrie-
Abwasser-Behandlung GmbH**

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