



NAVOTECH[®]
INŻYNIERIA ŚRODOWISKA

INDUSTRY



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INŻYNIERIA ŚRODOWISKA



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From the very beginning of its operation NavoTech has heard the customers' requests for advanced devices, installations and tanks dedicated for particular purposes. In order to meet these needs and based on our experience and the knowledge of our team of engineers and technologists we have been developing our department of tailor made solutions. Our Industry Service Department focuses on supplies of complete systems or their component parts selected on the basis of guidelines and needs of the investor or user.

In NavoTech we do not only give advice, but we also develop and manufacture our own devices meeting particular customer needs and we also execute orders based on technologies presented to us. We have a well-equipped technical base and a group of specialised workers who are also able to do their job outside the company's premises. We can offer solutions on a „turn-key” basis, including assembly at target facilities, technological start-up as well as warranty service and maintenance later on. We are not limiting our field of expertise, hence our products can be applied in various sectors and branches of the industry.



Using our experience and knowledge, we have designed, manufactured, supplied, assembled and commissioned a number of installations, including:

- Process waste water treatment plants,
- Sewage coagulation and flotation systems,
- Solution and component preparation stations,
- Lamellar separators,
- Medium pH correction systems,
- Water and sewage disinfection systems.

All our installations are selected individually to meet particular requirements of the ordering party.



In many applications NavoTech is a leading producer of a broad range of unpressurized storage or process tanks.

Our tanks are mainly made of the following materials:

- PE80, PE100, PE100-RC Polyethylene and other types,
- PP Polypropylene,
- PVC-C,
- PVDF,
- Stainless steel, acid resistant steel,
- Construction steel with anti-corrosion protection, steel in polymer coating,
- GRP / GFK (in a limited range of applications),
- It is also possible to use several selected materials (steel load-bearing structure combined with a plastic tank).

Due to a vast range of construction materials we are able to select the right tank for a stored medium (e.g. aggressive media: toxic, caustic) and temperature of the medium as well as of the surroundings. We can also provide products meeting the requirements of the ATEX directive (including tanks of thermoplastics). In the case of tanks subject to commissioning by the Office of Technical Inspection (UDT) our tanks are supplied with complete commissioning documentation.

Tanks delivered to the construction site have been fully prepared in our facility or, if needed, they are assembled by our workers at the site.



Basic types of detached tanks:

- cylindrical vertical,
- cylindrical horizontal,
- rectangular.

We produce tanks in several configurations:

- flat bottom,
- oblique bottom,
- conical bottom.

Optional equipment includes:

- thermal insulation and a system of maintaining/increasing the medium temperature,
- process mixers,
- level indicators: mechanical, electronic,
- absorbers, filters,
- loading panels,
- double-wall protective tanks,
- measuring instruments, sensors etc.,
- access ladders, platforms, railings,
- steel structures (supporting and load-bearing).



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A separate group of tanks are tanks used in heavy industry, including all types of galvanizing plants. Based on our experience we supply devices fully equipped with:

- Process control systems
- Pneumatically or /and electrically controlled accessories, such as: automated cover opening/closing, integrated ventilation ducts etc.
- Heating accessories: heaters, thermometers, temperature controllers etc.
- Process fittings – electrovalves, circulating pumps, drain pumps, mixers (including pneumatic mixers)
- Process apparatus: PH meters, salinity sensors, conductivity sensors etc.
- Additional accessories: draining tables, component washing stations, fume cupboards, transportation trolleys etc.



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Our dosing installations are systems equipped with components, devices and fittings of leading global producers.

Our offer comprises the following dosing installations:

- Stationary – operating all the time in one place,
- Container installations – operating in one place with the option of transporting them to another location,
- Mobile – stations operating in the field that can dose the medium in any location. The stations can be equipped with an independent power source.



Installation construction material and sealing material are selected with respect to the dosed medium.

The most popular construction materials:

- Polyethylene,
- Polypropylene,
- PVC-U,
- PVDF,
- Stainless steel, acid resistant steel.

The devices, using the countercurrent flow of water and air, are mainly responsible for:

- water aeration (oxygenation),
- removal of gasses dissolved in water (e.g. CO₂, H₂S, NH₃).

The devices are made entirely of corrosion resistant materials: stainless/acid resistant steel and/or plastics.

The body of the tower is usually composed of several segments facilitating disassembly and deposit cleaning. An inspection window allows to monitor the cleanliness of the inner part of the device on a current basis.

We supply our devices in convenient configurations:

- Sole aeration column/tower,
- Aeration column/tower with a storage tank,
- Aeration column/tower with a tank and an aeration blower.

Each of the above options can be supplemented with our drop separators/demisters.



Ventilation systems made of plastics can be used in all places where highly aggressive environment forces the user to perform constant repairs (or replacements) of installations made of popular materials, including acid resistant steel.

Apart from ventilation ducts we produce:

- fittings: dampers, return flap valves,
- accessories: washers, scrubbers etc.,
- installation assembly at the customer's facility.

Thanks to the properties of plastics used for their construction, NavoTech ventilation systems have the following advantages:

- virtually total resistance to chemicals
- total corrosion resistance
- low mass
- cost several times lower than that of an installation made of stainless steel or acid resistant steel
- the possibility of shaping the channel section in any way at low cost and low component mass
- the option of producing the components in a non-flammable and antistatic version



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The basic equipment of plants using aggressive, toxic or caustic chemicals is equipment that protects humans and the environment by capturing the substances in the event of uncontrolled leakage. In order to provide adequate level of safety NavoTech's offer comprises a whole range of device such as:

- double casing tanks,
- protective containers,
- drip trays,
- loading panels,
- transfer cabinets,



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Due to our experience in the treatment of various construction materials NavoTech Industry with its highly qualified field workers performs such services as e.g.:

- Repairs of plastic, steel and concrete tanks,
- Comprehensive assembly of devices and process lines,
- Replacement, renovation of tanks and all kinds of installations,
- Installation integrity control and leakage identification due to high class unique devices recording the invisible spectrum,
- Physical and chemical analysis of water and sewage.



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NavoTech Inżynieria Środowiska offers a whole range of services and products related with sewage treatment and drainage of stormwater.

Products:

- Retention and soakaway drainage chambers: **NT-BAS**
- Oil, grease, starch separators: **SDL, MAK, SL, LIPO, SK**
- Flaps and check valves: **KP, NT, ProFlex**
- Settling tanks and tanks: **PRIM, OK, ROK, RET**
- Sewage treatment plants: **NT-BIOS, NT-ROT, NT-DOM**
- Water and sewage intermediate pumping stations: **NAVO**
- Acid neutralisers: **KPH**
- Car wash closed cycles **NOT**

Services and Technical Support:

- Service of separators, sewage treatment plants
- Service of pumping stations, industrial installations
- Service of environment protection equipment
- Temporary or ongoing maintenance of environment protection equipment
- Transportation of liquid wastes
- Treatment and connection of PE, PP, PVC materials
- Consumables and measuring fixtures
- Overhaul and modernisation of water and sewage installations

You can find more information on our website

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