



SURFACE TREATMENT SYSTEMS ELECTROPLATING



OUR COMPANY

GALKOR is the manufacturer of comprehensive surface treatment systems. Our team of specialists with long experience in the sector provide professional technical consulting, extensive service and individual approach to each Client. Quality Management System in accordance with ISO 9001:2015 and a modern machine park guarantee the production of equipment that meets the most rigorous quality standards. We provide a wide range of chemical components and technological solutions for surface treatment processes manufactured in accordance with ISO 14001:2015. Our advanced laboratory offers fast and precise analyses on modern equipment.



The range of our products includes:

- plating plants,
- hot dip galvanizing plants,
- wastewater treatment plants,
- water recovery systems,
- filtration systems,
- electroplating machinery,
- surface treatment technologies.



PLATING PLANTS

We offer a wide range of plating and electroplating lines incorporating technical solutions ensuring ergonomic working environment, flexible operation, energy savings and tailoring to individual customer requirements. The latest technology applied to construct our machinery guarantees the excellent quality of the coating and the reduction of labour, energy and materials costs.

The range of our services includes:

- preparation of electroplating process technology on the basis of the latest technological achievements,
- design works,
- construction of plating line machinery and peripheral equipment,
- plating line control system,
- installation and start-up at site,
- technological start and production process implementation.





WASTEWATER TREATMENT PLANTS

Wastewater treatment plant is designed to remove heavy metals from the effluents generated during surface treatment process. Chemical reactions, coagulation and ion exchange enable to obtain the effluents of parameters suitable to discharge them to the sewage system. The deposits generated during the pre-treatment are subjected to filtration – separation on filter press or other filtering machinery. Our purpose is the optimization of water consumption at the production line, which is the effective method to obtain significant cost savings.

Our wastewater treatment plants are available in the following versions:

- automated plants adapted to continuous operation,
- automated plants adapted to periodic operation,
- filter presses for sediment separation,
- filtration bags,
- mechanical filtration, activated carbon and ion exchange filtration.





TECHNOLOGICAL WATER RECOVERY SYSTEMS

The combination of wastewater treatment plant and water recovery system enables to treat the process water to the extent allowing to re-use it in technological processes. The water recovery system contains individual installations of different filtration ranges which gradually eliminate the pollutants and reduce the number of ions responsible for the total load of pollutants in water. Reverse osmosis is the core of the water recovery system – membrane technology allows to remove up to 99% of salts dissolved in water in the filtration scope of $0,003 - 0,0001 \mu\text{m}$. The raw water requires pre-treatment to remove suspended solids and other pollutants which may impair the effectiveness of RO installation. For this purpose the effluent treated in wastewater treatment plant is filtered through mechanical filter, micro-pore filter and softener.





FILTER PRESSES

We offer the solutions to solve the problem with sludge generated in the process of galvanic wastewater treatment. Mechanical dehydration of sludge carried out by the filter press is the most effective and economical method of sludge concentration.



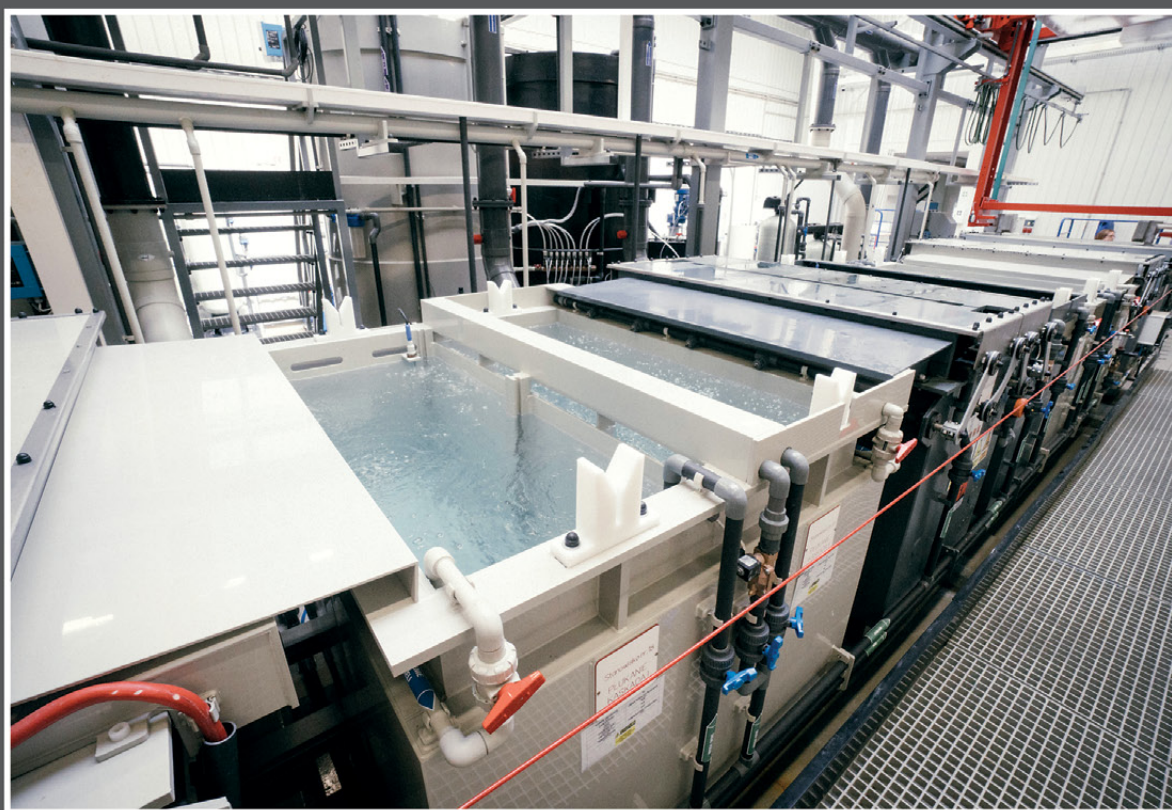
PROCESS AND TECHNOLOGICAL TANKS

Process and technological tanks are the key element of each surface treatment plant. The tanks are made of durable materials resistant to chemical corrosion, i.e. polypropylene, polyethylene, polyvinyl chloride and vinylidene polyfluoride. Additionally, we manufacture tanks made of steel and stainless steel. Our tanks might be used as process tanks for chemical and electrochemical processes, rinse tanks and storage tanks. The dimensions of the tanks are tailored to the specific customer requirements. All the tanks are reinforced with steel profiles and if necessary might be thermally insulated.

Auxiliary equipment

The tanks might be equipped with level sensors, agitation installations, pumps, discharge valves, exhaust fans, covers and other necessary components.







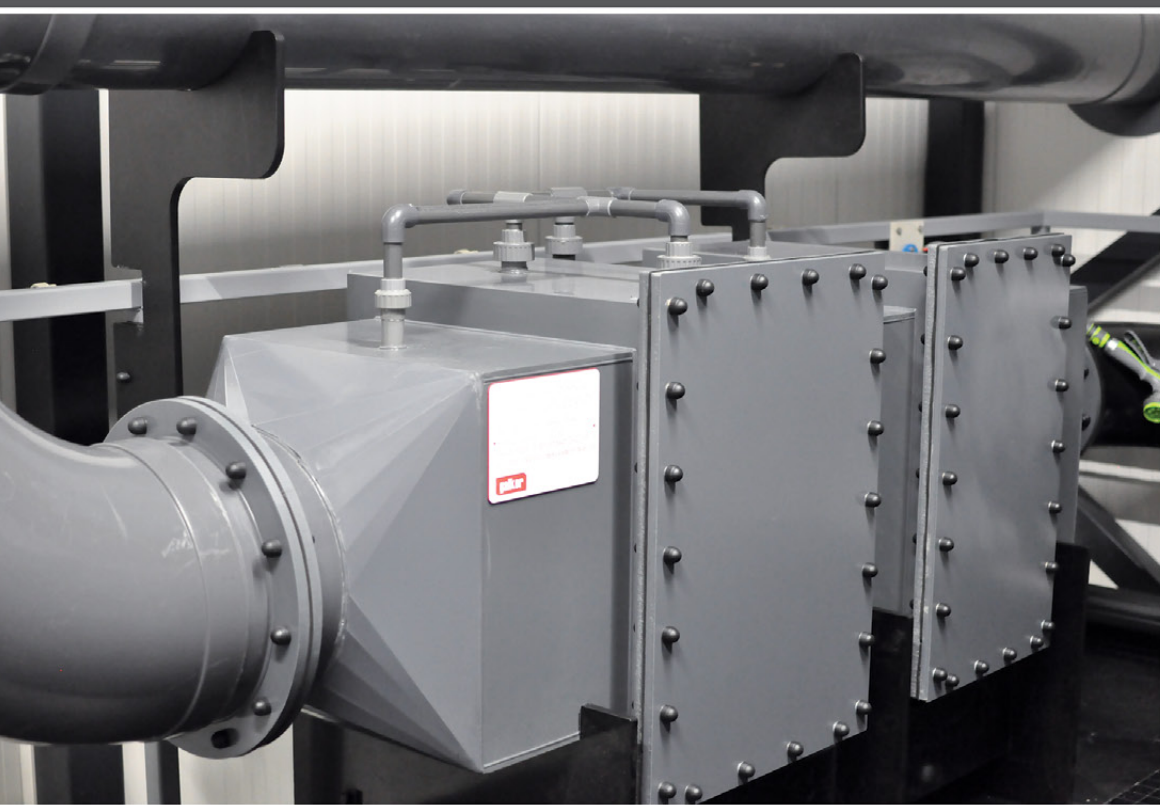
VENTILATION SYSTEM

Exhaust ventilation systems are designed to extract the vapours generated over the tanks and discharge them outside the plating line in order to maintain suitable working conditions. The production process comprises chemical and electrochemical reactions that require vapour extraction. Exhaust ventilation systems with the latest solutions in the field of gas filtration (mist elimination and scrubbing) enable to achieve high air purity and protect the environment.

The range of our services includes:

- design of exhaust ventilation systems,
- construction of ventilation machinery – exhaust fans, ducts, connections, dampers, filters, etc.,
- ventilation control system,
- gas filtration systems,
- supply-exhaust ventilation systems,
- the installation of ventilation systems,
- technical service.



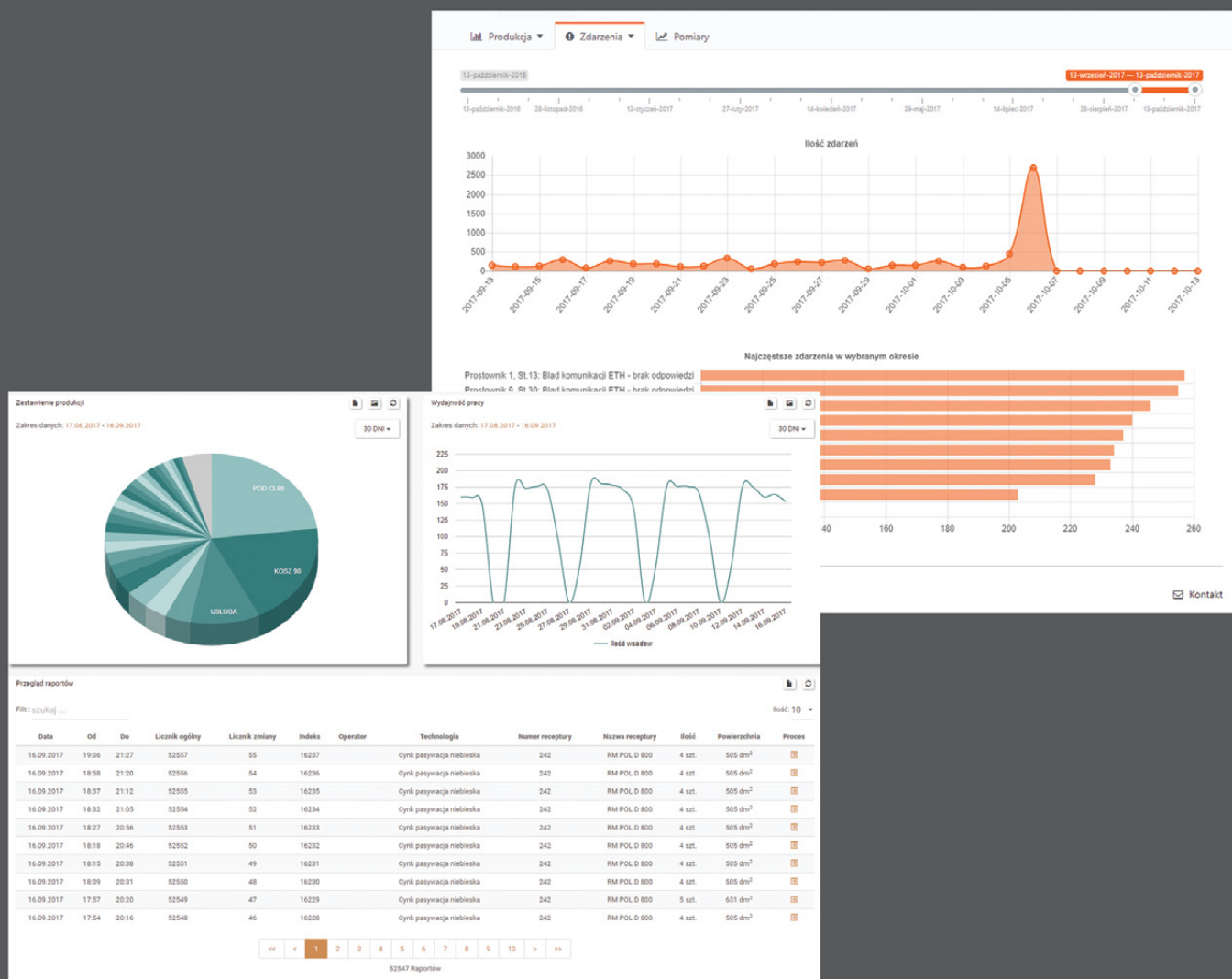


CONTROL SYSTEM

We designed and implemented the control system for automatic surface treatment plants and wastewater treatment plants. The latest technical and technological solutions provide you with the ultimate efficiency, reliability and flexibility that enable to change the configuration, extend the system and communicate with other systems of the entire plant network.

General functions of our control system:

- precise control of the production process,
- visualisation of the entire production process,
- parameterization of the operation process,
- edition of process parameters and recipe,
- diagnostic of the machinery, alarm system,
- reporting and archiving.





Looking forward to successful cooperation!

Przedsiębiorstwo Wielobranżowe
GALKOR Sp. z o.o.
ul. Aleje Wolności 1A
86-010 Koronowo
tel.: (+48) 52 382 07 70



ISO 9001
ISO 14001
LL-C (Certification)

www.galkor.pl