



 **KÖRTE**

Introduction



KÖRTE Co.Ltd. is a key player in industrial environmental protection, particularly in industrial wastewater treatment in Hungary.

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Environmental Protection Innovation Sustainability

We are pioneers in Hungary to have applied state of the art, environmental friendly technologies in the field of industrial wastewater treatment. We introduced numerous developments and solutions in our activities that were uncommon before in Hungary.

We construct and operate mobile sludge dewatering and industrial wastewater treatment solutions.

We produce and distribute environmental engineering equipment, also installed in our solutions.

We produce and distribute multi-component chemical powders for wastewater treatment.

We operate industrial wastewater plants also as outsourced services.

We have constructed several, globally unique waste management solutions and industrial wastewater treatment plants that utilise the contaminants from wastewater and recycle (recirculate) high-purity treated water into the production process.



State-of-the-art Water and Wastewater Treatment Technologies

Körte Co.Ltd. has constructed over 100 wastewater treatment plants for various industrial sectors over the past 30 years. We have worked in almost all industries (automotive, transport, textile, food, chemical, petrochemical, pharmaceutical, glass, metal, electronic, paper and paint industries) designing and constructing industrial wastewater treatment plants, rendering operation and mobile sludge dewatering services, producing and marketing equipment and wastewater treatment agents for our customers.

Condition Surveys Retrofitting, Intensification

The extensive experience gained over the years enabled us to master standard solutions and provide a series of custom solutions for environmental challenges considered "impossible" to face before.

Utilisation and Water Recycling Solutions, ZLD systems

Successful tailor-made solutions in many projects enabled process water recovery, valuable secondary product yield and the utilisation of recyclable raw materials in industrial wastewater treatment processes generating savings for and improving the competitiveness of our partners and enhancing their image as environmentally aware companies. Körte Co Ltd. has built numerous, internationally unique ZLD systems (zero liquid discharge) in the metal, galvanic and also healthcare industry.

Turnkey Solutions

Activities:

- condition survey, onsite survey, sampling;
- analysis (COD, FOG, heavy metal content, pH, conductivity, dry solids content, filterability and settling tests, etc.);
- laboratory-scale purification tests;
- pilot-plant tests;
- technology design;
- complete documentation (water permit procedures, HSE plans, technological, mechanical and electrical construction and as-built planning, test run procedures and reports, etc.);
- production and/or purchase of equipment,
- mechanical and electrical installation;
- automation, programming, PLC, HMI and SCADA systems;
- commissioning, training;
- wastewater treatment agent supply;
- operational services.

A few unit examples:

- tanks, settlers;
- mechanical-chemical treatment lines, neutralising and chemical reactors;
- chemical dissolving and dosing units with complete control automatics;
- sand and activated carbon filters, ion exchange units;
- special powder feeders, oil decanters;
- sludge dewatering units: filter presses, travelling band screens;
- membrane technology: reverse osmosis systems;
- dissolved air flotation units;
- MVR and heat pump vacuum evaporator systems;
- gas scrubbers;
- biofilters.



Partial or Full Operation of Industrial Wastewater Treatment Systems

Although the staff for full operation services are employed by Körte Co.Ltd., their workplaces are at clients' sites. Operation services are usually based on long-term, 3-5 year contracts.

Outsourced Services

We are the first to have provided outsourced services in the Hungarian environmental sector.

Service Benefits

Clients engage experts to attend special tasks and consequently save on the development, continuous training, maintenance and operation of internal staff. This also ensures easy cost planning. We take responsibility for operational safety, ensure compliance with environmental protection regulations and the individual parameters set by clients.

Comprehensive Mobile Solutions

Sludge Dewatering, Mobile Wastewater Treatment

Mobile dewatering of various sludge types has been a core activity since the beginning. We have decanting centrifuge and chamber filter press stations installed on trucks, reactor lines with mixers and chemical dosing stations are available for professional engagements.

Solutions for Breakdowns and Emergency Events

Our experts and mobile units (reactors with chemical dosing, mobile phase separation, mobile sludge dewatering) have a short response time to attend breakdowns or emergencies.

Production and Distribution of Conventional and Custom Water and Wastewater Treatment Chemicals

Nearly 30 years of experience in wastewater treatment, outstanding chemists and development engineers enabled KÖRTE Co.Ltd. to develop several special chemicals driving it to be a leading player in the environmental chemical market in Hungary.

Körte Co.Ltd. produces and sells the whole spectrum of wastewater treatment chemicals from coagulants, flocculants through tailor-made chemical combos to biological trace-element nutrients necessary in physical, chemical and biological treatment processes.

Consultation, Onsite Survey, Optimised Chemical Combos

Besides chemical sales, the chemists and operation experts of Körte Co.Ltd. provide consultation, perform onsite measurements and tests to help identify the optimum application technology, chemical combos and dosing method.

Remediation

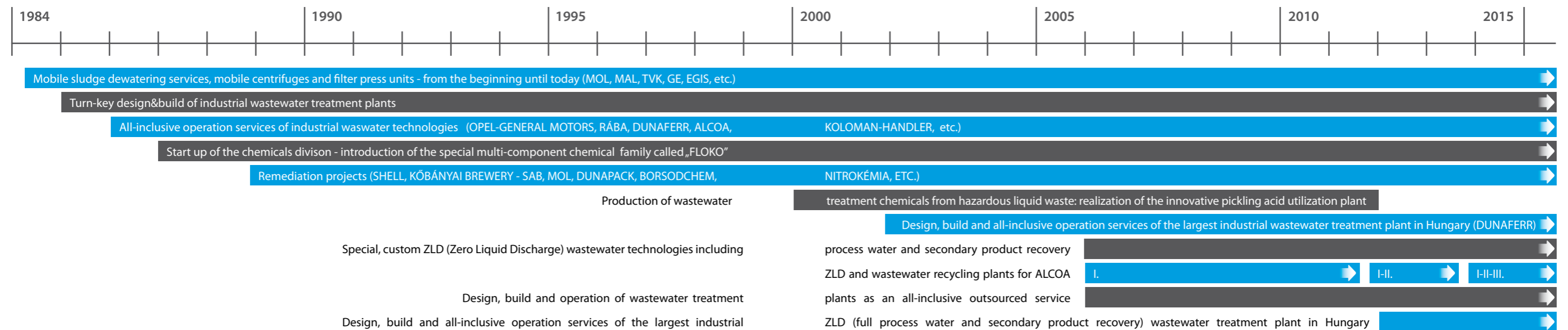
We started remediation activities at the beginning of the 1990s. We installed and operated systems using a wide range of remediation technologies at former Soviet military barracks, airfields and production facilities leaving heavy soil and groundwater contamination.

Through the major projects we cite as references, we have treated thousands of cubic metres of contaminated groundwater removing contaminants like paraffin oil, BTEX compounds, heavy metals or chlorinated hydrocarbons every year.

Körte-history



Time-line of our past and current operations (a few examples)





Automotive Industry

Opel Hungary
Raba Automotive Holding
Audi Hungaria
Suzuki Hungary
Ikarus

Food industry

Unilever
Sole-Mizo
Gallicoop
ATEV
Asia-Food
Master Good

Electronics industry

General Electric Hungary
Vishay Hungary
Perion

Pharmaceutical and health care industry

CEVA
Chinoin (Sanofi Aventis)
Egis (Servier)
Procter&Gamble

Textile industry

Arlington Hungary
Frankonia
Levis

Glass manufacturing industry

Ajka Kristály
Salgglass
Hunguard
Carl Zeiss

Metalworking

ISD Dunaferr
Alcoa
Koloman-Handler
Roto-Elzett
US Steel
MAL
AHI-Roofing

Chemical industry

Unilever
Borsodchem
MOL
TVK
Trilak
Shell Hungary
Dunastyr
Colgate-Palmolive Hungary

Paper industry

SCA Packaging
Dunapack
Paper&More

Waste management, environmental industry

Palota Environmental Ltd.
Saubermacher-Hungary

Other industries

BKV – Budapest Transport,
MÁV – Hungarian State
Railways, Hollóháza Porcelain
Factory, Swedish Match,
Ministry of Environmental
Protection, etc.

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