



# Komplex Product Kft. Introduction

# The company briefly:

- *Komplex Product Kft. has been established on 1st of May 1998, obligate as a private company in 100% in a Hungarian property.*
- *Our company has been introduced and operate in the frameworks of ISO Standard 9001:2008 Quality Management system since 2006, which is provides the services and products to follow European norms with outstanding quality continuously. In 2009's winter, ISO 14001:2004 Environment Management system has been implemented, therefore our company has the complete Integrated Quality Management System.*

# Main services and products:

*KOMPLEX PRODUCT Kft. has provides industrial water treatment equipments (specially water softener, desalination equipments for the power stations and boiler rooms), designs and manufacture of municipal and technological heat centers, plastic containers, and also inspection of containers.*

*Our company is take a part in waste water and drinking water treatment projects, providing design, manufacture and assembly works.*

*Moreover the company has design and produce chemical dosing stations, (PP PE) tanks, pneumatic cabinets and custom designed equipments.*



# Services, constructions:

## Functions:

- ✓ Main contractor activities
- ✓ General design works
- ✓ Chemistry technological planning
- ✓ Mechanical design
- ✓ Electrical design
- ✓ Preparing final construction drawings
- ✓ Manufacturing, assembly
- ✓ Installation, commission

## Technological equipments:

- ✓ Complete and partial desalination units
- ✓ Sodium cycle ion exchangers
- ✓ Ion exchanger with anion, cation mixed resin
- ✓ Industrial waste water pre-treatments
- ✓ Gas eliminating
- ✓ Heating centers
- ✓ Chemical dosing stations with container family
- ✓ RO equipments, filtration

## Equipments:

- ✓ Carbonate relief reactors
- ✓ Ion exchange tanks
- ✓ Filter tanks
- ✓ Chemical puffer tanks (rubber lined, plastic)
- ✓ Heat exchangers
- ✓ Gas extractors (eliminators) units
- ✓ Unique machines, equipments

## Constructions:

- ✓ Plastic, carbon steel, rubber lined steel and stainless steel piping assembly
- ✓ Technologic assembly
- ✓ Locksmith industrial works
- ✓ Electrical distributor productions
- ✓ Instrumentation
- ✓ Automation
- ✓ Pneumatic assembly

# Important data:

## 2 Sites:

- ✦ Headquarter in Tatabánya
- ✦ Assembly Hall in Oroszlány (*new investment*)

- Tatabánya site:
- Staff: 23 employees
- Office: 300 m<sup>2</sup>
- Locksmith workshop: 1000 m<sup>2</sup>
- Electrical workshop: 100 m<sup>2</sup>
- Plastic workshop: 400 m<sup>2</sup>
- Warehouse: 200 m<sup>2</sup>
- Park: 8500 m<sup>2</sup>

## Vehicle park:

- ✦ 3 trucks: 3,5t capacity
- ✦ 2 trucks: 1t capacity





# 1 400M<sup>2</sup> NEW MANUFACTURING AND ASSEMBLY HALL

Located in Oroszlány, Hungary

- ✦ Park: 5000 m<sup>2</sup>
- ✦ Assembly area: 1306 m<sup>2</sup>
- ✦ Office area: 38 m<sup>2</sup>
- ✦ Warehouse: 94 m<sup>2</sup>
- ✦ **Special equipment: Tandem cranes (2x5 t = 10 t capacity) – suitable for containerized equipment moving!**



# MACHINERY

OUR INDUSTRIAL SHEET MACHINERIES CAN PROVIDE EASY, FAST, AND PRECISE FABRICATION, SHAPING PROCESS IN BOTH OF CARBON STEEL AND STAINLESS STEEL MATERIALS.



Sheet cutting machine: **Baykal HGL 3100x8**  
Max. length of sheet: 3100 mm  
Max. thickness: 8 mm

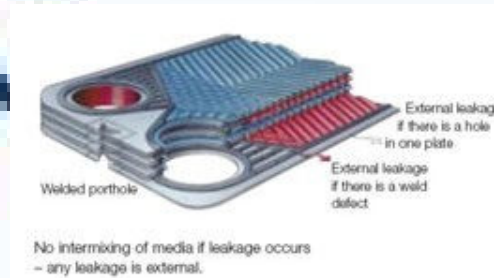


Bending machine: **Baykal APHS 3108x150**  
Max. length of sheet: 3100 mm  
Max. pressure capacity: 150 tons



# Alfa Laval and Komplex Product

*From the establishment of the company we represent the Alfa Laval company. The Alfa Laval is a leader company worldwide in the plate heat exchanger production. All of their products supply the compact construction and specific high heat capacity.*



További információk: [www.alfalaval.hu](http://www.alfalaval.hu)

Alfa Laval double-wall plate heat exchangers work on the same principle as conventional plate heat exchangers. However, the single plates between the two media are replaced by pairs of identical plates that are laser-welded together around the portholes. The channels formed when the welded plate pairs are assembled in a plate pack are sealed by gaskets in the conventional manner.



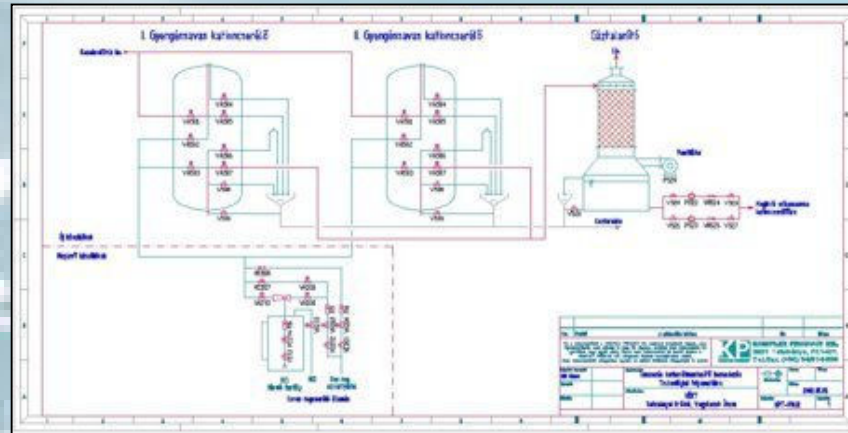
Wide range of products:

- sealed,
- Welded-gasket,
- welded,
- soldered and
- welded by fusion method
- plate heat exchangers

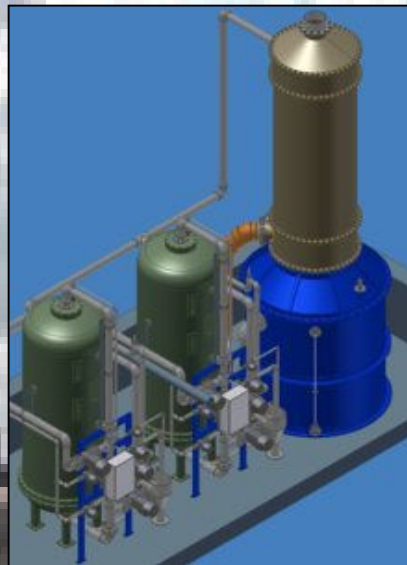
*Our company is able to provide the assembly of gasket plate heat exchanger according to the individual claims within 24 hours if urgently reasonable, from the components which are on the constant stock. Selection of the suitable heat exchanger has done by the Alfa Laval's scaling software.*



# FROM OUR POWER STATION WORKS 1/3



COMPLETE TECHNOLOGIC DESIGN,  
PROCESS DIAGRAM



CARBONATE RELIEF  
ION EXCHANGER – 3D  
DESIGN MODEL

CONSTRUCTED ION  
EXCHANGER CARBONATE  
RELIEF



## FROM OUR POWER STATION WORKS 2/3



DESIGNED AND CONSTRUCTED  
DESALINATION WATER  
TREATMENT EQUIPMENT AT  
TATABÁNYA POWER-STATION



CORROSION RESISTANT  
RUBBER LINING OF  
DESULPHURISING CHIMNEY AT  
DROZSLÁNY POWER STATION

# FROM OUR POWER STATION WORKS 3/3

## Ion exchanger of Sugar plant of Kaba

Before renovation



Before renovation



After renovation



After renovation

Komplex Product Kft.



# HEAT CENTERS 1/3



- From 98's, more than 1200 of Heat center units has been established at more than 100 locations in all over Hungary
- From 10 kW up to 10000 KW wide performance range!!!
- Full service from the design work across the delivery and installation at site.
- Municipal heat centers for the heating water and DHW (Domestic Hot Water) service
- Industrial steam and hot water heat centers providing heating and technological hot water





## HEAT CENTERS 2/3



Komplex Product Kft.



## HEAT CENTERS 3/3



Komplex Product Kft.



# WATER TREATMENT PROJECTS 1/7



- SKID MOUNTED RO WATER TREATMENT SYSTEM (BASED ON REVERSE OSMOSIS DISCIPLE)

- SKID MOUNTED WATER TREATMENT MOBILE UNIT WITH MEMBRANE TECHNOLOGY



# WATER TREATMENT PROJECTS 2/7



◀ PLASTIC CONTAINERS WITH  
TECHNOLOGIC PIPING, DESIGN AND  
MANUFACTURING

PIPING WORK AND MECHANICAL  
ASSEMBLY ON SITE

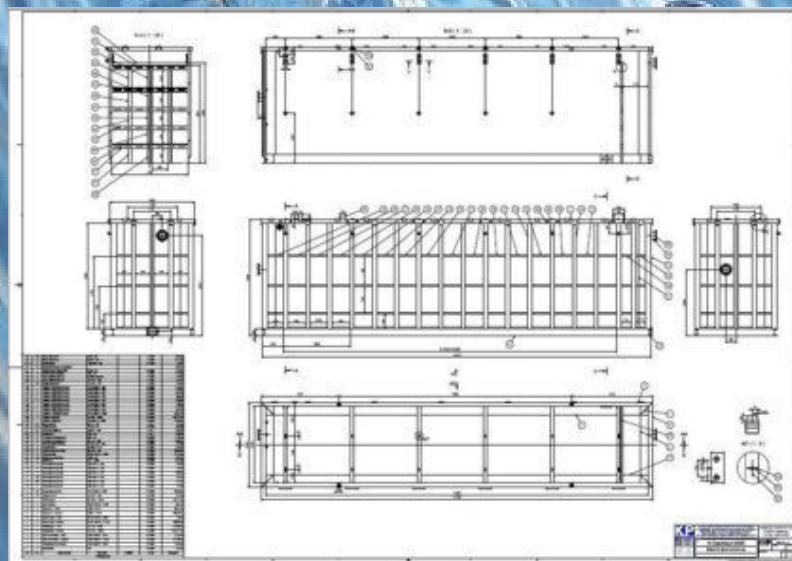


◀ PUMP STATION MOUNTED ON PAINTED  
CARBON STEEL FRAME





# WATER TREATMENT PROJECTS 3/7



**BIOLOGICAL CARBON STEEL  
WASTE WATER CONTAINER  
WITH CORROSION  
RESISTANT RUBBER  
COATING, DESIGN AND  
FABRICATION**



# WATER TREATMENT PROJECTS 4/7



← MOBILE WATER TREATMENT UNIT  
MOUNTED ON STAINLESS STEEL  
FRAME

COMPACT WATER TREATMENT UNIT →  
MOUNTED ON ALUMINUM SKID



# WATER TREATMENT PROJECTS 5/7

MULTIMEDIA FILTER WITH FITTINGS  
AND PIPING



COMPLETE CHEMICAL DOSING  
STATION MOUNTED ON PP PANEL  
WITH CHEMICAL STORAGE TANKS



# WATER TREATMENT PROJECTS 6/7



◀ PUMP SKID FOR WATER  
TREATMENT UNIT

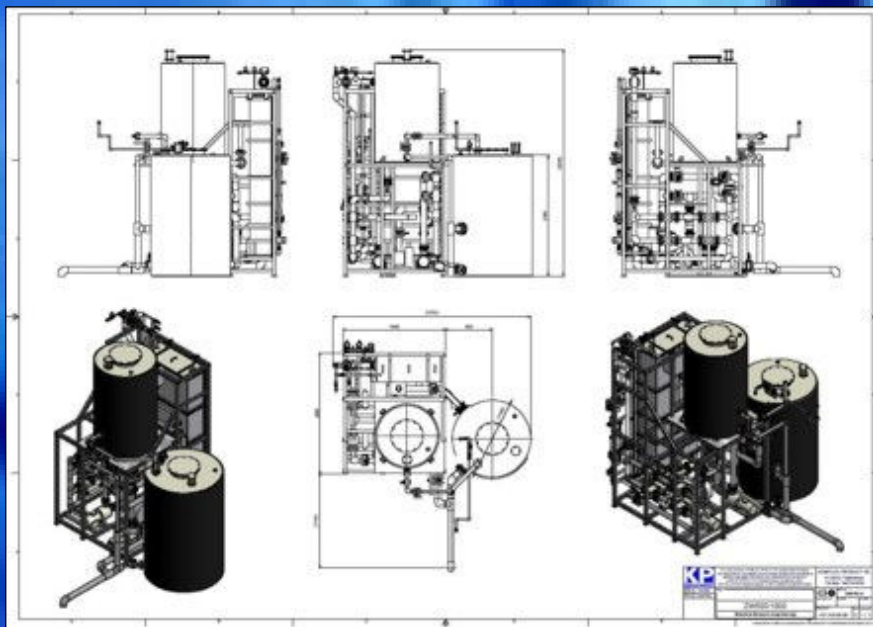


PROCESS PUMP STATION ON SKID ▶



# WATER TREATMENT PROJECTS 7/7

## DESIGN AND MANUFACTURE OF MEMBRANE ACCELERATED TESTER UNIT



# FULL SCOPE PROJECTS

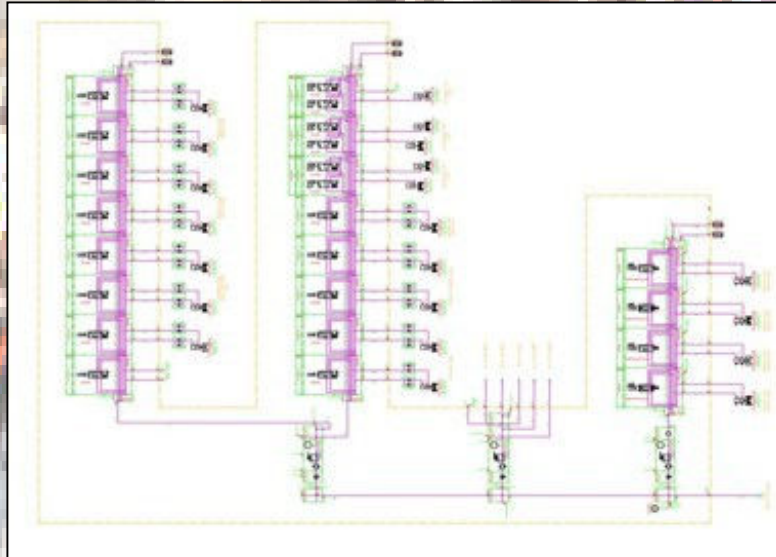
- DESIGN AND ENGINEERING WORK
- STEEL FABRICATION
- SURFACE PREPARATION, PAINTING
- ISOLATION, INNER REVETMENT
- MECHANICAL ASSEMBLY
- ELECTRICAL AND PLC ASSEMBLY
- DELIVERY



Komplex Product Kft.

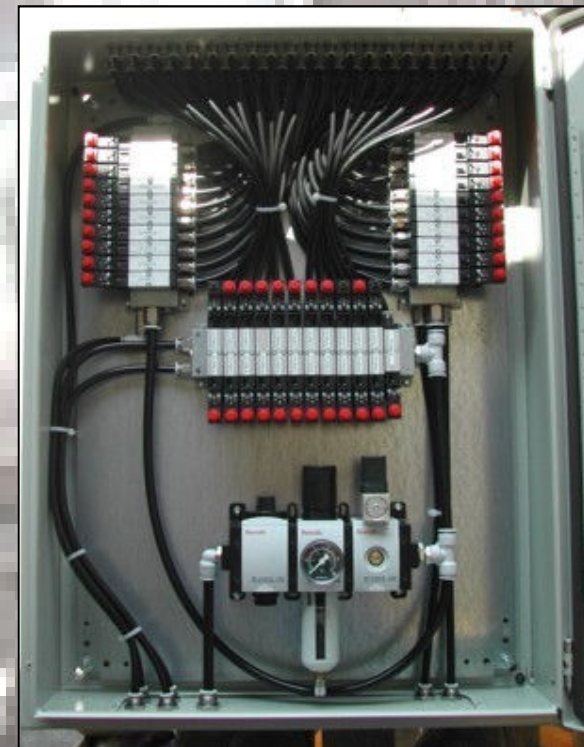


# PNEUMATIC SYSTEMS



Design and construction of Bosch Rexroth pneumatic cabinet based on the P&ID (Process and Instrumental diagram).

Our company providing specifying, design and assembly of compressed air controller systems (pneumatics) according to diagrams or unique customer requisition. We are in contact a few pneumatic manufacturers like Bosch Rexroth, SMC to fulfill the customer demands as flexible as possible.



## SOME MORE...



CIP STATION WITH PP TANK



PLASTIC CONTAINERS MADE FROM  
PP, PE MATERIAL



CHEMICAL DOSING STATION



CUSTOM DESIGN MANUFACTURE,  
PNEUMATIC ACTUATED LAMELLA SHUTTER



# Main References, sites:

## Heat Centers:

- ✓ Asia Center, Budapest
- ✓ SOTÁV, Sopron Heating Service Provider
- ✓ Heating distributor service provider of capital city, Budapest
- ✓ Heating Plant of Győr
- ✓ EVAT Rt., Eger
- ✓ Heating distributor service provider of Kazincbarcika city
- ✓ OSZ Zrt. (Oroszlány Service Provider Zrt.)
- ✓ PÉTÁV, Heating Distributor Service Provider of Pécs

## Reference of power station:

- ✓ Power plant of Debrecen city
- ✓ Water Treatment Plant of Debrecen
- ✓ Water Treatment Plant of Capital city
- ✓ Tatabánya, VÉRT Power Plant Kft.
- ✓ Power plant of Székesfehérvár city
- ✓ Power plant of Oroszlány city

## Water treatment and custom design projects:

- ✓ Aquaunion Kft.
- ✓ Chinoin Zrt.
- ✓ Hach Lange Kft.
- ✓ Nuclear Power Station of Paks city (Certified Subcontractor)
- ✓ Samsung Hungary
- ✓ GE Water and Process Technologies Hungary Kft., Oroszlány
- ✓ GE Water & Process Technologies Spain
- ✓ GE Water & Process Technologies UK
- ✓ GE Water & Process Technologies Italy
- ✓ BJ Rotary Kft. Nagykanizsa
- ✓ RÁBA Rt.
- ✓ E.ON EÜT Kft. (Power Station of Győr)
- ✓ TIP-TOP GmbH
- ✓ Ecolibra Sp. z.o.o., Poland
- ✓ Michelin, Nyíregyháza
- ✓ Hankook Tire, Dunaújváros
- ✓ Bridgestone, Tatabánya

# CERTIFICATES

**Certificate**

Standard **ISO 9001:2008 and ISO 14001:2004**

Certificate Registr. No. **75 150 10144**

TÜV Rheinland InterCert Kft. certifies:

Certificate Holder: **Komplex Product Kft.**  
Tárnócs M. u. 1/C  
H - 2800 Tatabánya  
Hungary


Scope: design and production of district heating systems, design and production of thermoplastic tanks, examination of tanks.


An audit was performed. Proof has been furnished that the requirements according to MSZ EN ISO 9001:2009 (ISO 9001:2008) and MSZ EN ISO 14001:2005 (ISO 14001:2004) are fulfilled.


Validity: The certificate is valid from **2015.12.14** until **2018.09.14**  
First certification: 2009.

Budapest, 2015.12.14.

TÜV Rheinland InterCert Kft.  
H-1132 Budapest, Váci út 48/a-b  
www.tuv.hu

 MIR TANÚSTÓ  
NAT-4-0254/2011

 KIR TANÚSTÓ  
NAT-4-0251/2011

 **TÜVRheinland®**  
Precisely Right.

- **Quality Management System:**
- **ISO 9001:2008**
- **Environment Management System:**
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Management  
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# Contacts & Details

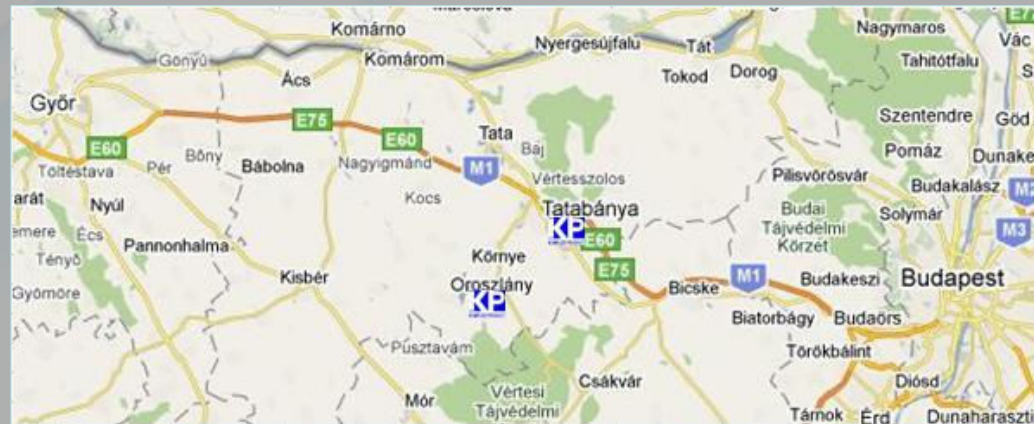
**Komplex Product Kft.**  
Műszaki, Kereskedelmi és Szolgáltató Kft.

Tel: +36 (34) 512-270

Fax: +36 (34) 512-271

E-mail: [komplex@komplexproduct.hu](mailto:komplex@komplexproduct.hu)

Web: [www.komplexproduct.hu](http://www.komplexproduct.hu)



**Headquarter:** Tatabánya, Táncsics Mihály u. 1/C  
2800, Pf. 1401, Hungary

**Assembly Hall:** Oroszlány, Mester u. 4.  
H-2840, Hungary

GPS coordinates: N 47°34'11" E 18°25'35"

GPS coordinates: N 47°28'44" E 18°18'50"

