

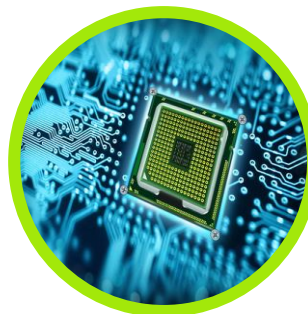
# Hungarian National Trading House

## Business Sectors



# 7 Strategic sectors at HNTH

IT, ICT



Innovation management



Mechanical engineering,  
Electronics, Metal working



Light industry



Agriculture and  
Food sector



Healthcare  
industry



Greentech industry,  
Urban and regional  
development, smart city  
solutions



# Health Care Industry

## MEDICAL DEVICES AND EQUIPMENT

- Endoscopic and surgical devices
- Innovative ECGs (Holters), Resting and Stress Test Systems
- Medical, surgical & dental equipment and devices

## PREVENTIVE HEALTH PRODUCTS AND COSMETICS

- General health enhancing products
- Herbal based cosmetics
- Vitamins, tea, herbal mixtures

## PHARMACEUTICAL INDUSTRY

- Generic drugs
- Contract manufacturing
- OTC drugs, vitamins



# GreenTech Industry/Urban & regional development

## SMART CITY SOLUTIONS



### FACT SHEET

- About 200 partners
- Unique and complex solutions
- Leading innovations
- Comprehensive knowledge and global references
- Global sales experience



### SUBSECTORS

- Environmental protection
- Water management
- Waste management
- Network development
- Building industry

# Agriculture and Food Sector

ABOUT 150 PARTNERS



## MOST IMPORTANT PRODUCTS & TECHNOLOGIES

- Honey, vegetables and fruits
- Confectionery, snacks, flours and pastas, spices and sunflower oil
- Bottled water and sweet beverages
- Agricultural management, cultivation, farming and breeding
- Food processing technologies (dried food tech.)



## KEY INDUSTRIES

- Meat industry
- Canning industry
- Confectionary industry
- Baking and pasta industry



# Light Industry

ABOUT 200 PARTNERS



## FACT SHEET

- High level of employment
- Competitive, world-class producers & talented designers
- Century old tradition
- Skilled workforce
- Premium quality products
- Contract manufacturing for Luxury brands



## SUBSECTORS

- Wood
- Furniture
- Textile, Clothing, Shoe
- Creative industry

# Machinery, Electronics

AND METAL WORKING TECHNOLOGIES



## FACT SHEET

- No.1. electronics producer of the CEE region
- LED and traditional lighting solutions are remarkable
- RAILWAY control techniques / solutions
- Target sectors: machine, automotive, railway, energetics, construction



# IT & ICT Sector in Hungary

ABOUT 100 PARTNERS



## FACT SHEET

- Many companies engaged in info communication technology and software development
- Hungary leads the region for computer assembly and communication equipment - manufacturing
- NEW START UP GENERATION!



## SUBSECTORS

- Data management and analysis
- Solutions for governments (e-toll system, mobile parking)
- Cloud-based technologies
- Hardware manufacturing
- IT security / Cyber security
- IT consultancy
- AGRO IT
- M2M technology
- Computer games development
- Telecommunication and infrastructure



# Innovation Management

TECHNOLOGY & KNOWLEDGE TRANSFER



## FACT SHEET

- More than 35 partners with R+D activities
- Worldwide leading innovation
- Focusing on the problem solving solutions
- UNIVERSITIES



## SUBSECTORS

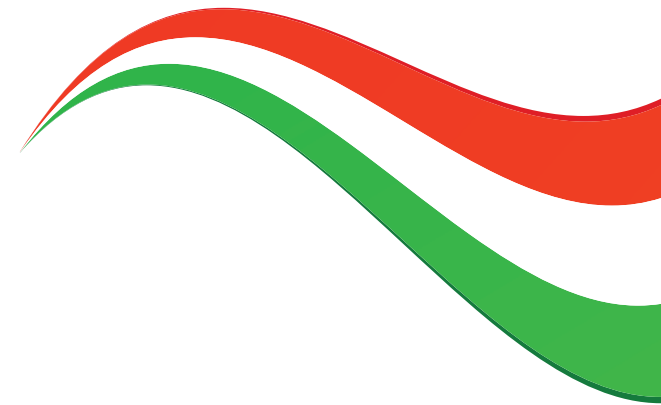
- ICT/Smart City
- Innovative Agriculture Technologies
- Mechanical Engineering
- Materials Technology



# **Hungarian expertise: The potential of tradition & innovation**

COMPANY CATALOGUE

World class products & know-how  
from Central Europe





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## Our products and services

Manufacturing and selling of agricultural machines. Sunflower harvester adapters, corn harvester adapters, header transporters, grain pick-up and loader.

**“OPTImal choice - save money and time!”**

## Our value proposition

OPTIGÉP Ltd. is the Hungarian market leader in the area of good quality sunflower harvester adapters, corn harvester adapters, header transporters, grain pick-up and loaders.

## Who we are

The company was formed in 1993, and is 100 % Hungarian owned. OPTIGÉP Ltd. developed its expertise through taking over agricultural machine production from companies that had been working at the plant since 1967.

Since the formation of our company, we have closed every financial year with a profit. Among our staff of 136 employees, we employ 5 development engineers and invest 8-10 % of our annual turnover in improving our existing products and in developing new products in order to keep up with the customer demand and to stay competitive in the market.

## Our work

OPTIGÉP Ltd. dominates 98 % of the Hungarian market. Beyond the Hungarian market the company exports to the following countries: USA, Russia, Slovakia, Romania, Bulgaria, Austria, the Czech Republic, Serbia, Ukraine and Moldova.

OPTIGÉP Ltd. works in ISO 9001: 2008 Quality Assurance System. This system together with the professional skill of the employees provides the good quality of our products.



## SUNFLOWER HARVESTER ADAPTERS

SERVE FOR THE HARVESTING OF THE FULLY MATURED SUNFLOWER

**Our adapters are equipped with a special connecting frame, which provides quick coupling to any combine types.**

Each row features a gathering chain providing smooth material flow to the rotary knife mechanism, creating a clean cut. Lightweight row dividers assembled with vibrating catch pans minimize shattering loss and provide smooth and uniform material flow to the gathering conveyor and the feeder house.

The low profile floating lifters minimize harvest loss even at lodged down crop conditions. The side panels of the adapter work as excellent row dividers eliminating loss or fall-out of the sunflower heads from the adapter at the side rows.

A simple, durable drive line with built-in safety clutch, eases maintenance and adds a high technical reliability.

### Advantages of the adapters:

- Minimum seed loss
- Easy handling
- Simple connectivity to the combine
- Minimum maintenance demand
- Low operating costs
- Quick and blocking-free material flow even under bad harvesting conditions
- High field performance



## CORN HARVESTER ADAPTERS

SERVE FOR THE HARVESTING OF THE FULLY MATURED CORN

The frame is universal so the adapter is suitable for any kind of combine. Snapping rolls ensure efficient pull-down and make choppers more effective.

The corn adapters are strong structures with efficient performance and minimal maintenance. The adapters have double-sided drives and are driven from the feeder of the combine harvester via cardan shaft.

The snapping units and the gathering worm are driven by chains or aluminium gearboxes. To avoid overload, the gathering worm has a safety friction clutch and every snapping unit has a safety clutch. Simple, durable drive lines have a built-in safety clutch that results in ease of maintenance and high technical reliability. The chopper pulls down the remains of the stalks as well as the weed, which is found among the rows and spreads rubble on the stubble-field.

After chopping, 90 % of the stalk remains are under the size of 6 cm.

### Advantages of the corn adapter:

- Corn harvest and chopping occur in the same pass
- Ease of operation
- Quickly detachable – no tools required
- Ease of maintenance
- Low operational costs
- High field performance
- Central electromechanical snapping plate adjustment
- Special bearings of snapping rolls do not require maintenance
- To avoid overload every snapping unit has safety switch
- By means of the built in shift gearboxes, the revolutions per minute of some headers is adjustable ±5 % compared to the factory settings and depending on the harvesting conditions.



# VOGEL & NOOT

Tillage, seeding, plant protection

## Our products and services

- Ploughs
- Cultivators
- Compact disc harrows
- Subsoilers
- Seedbed combinations
- Packer
- Roller
- Rotary harrows
- Seed drills
- Shredders
- Field sprayers
- Wearing parts

“ Think ahead – Act ahead ”

## Our value proposition

We want to show our strength not only with powerful machines, but also with technical progress and services.

Our aims are to support our dealers and to contribute to agricultural success. In doing so, we want to be ahead of the field. Machines that save time thanks to easy handling, and have longer service lives thanks to their robust design and reduced wear and tear bring commercial success. Well-designed implements impress users with more functions. Users love their sleek design and enjoy working with them. The result is agricultural success.

Vogel & Noot is your across-the-board supplier with high quality standards in professional soil cultivation. We place additional focus on 'precision farming'.

## Who we are

We are one of the largest European specialist in soil cultivation, seeding technology and crop protection. With more than 140 years of constant development, we offer customized solutions in all product segments.

Our main manufacturing locations are in Hungary and Germany. We have offices and locations across Europe. Our headquarters are in Austria.

## Our work

We offer our services and products world-wide, with sales offices all over Europe and Russia.

[www.vogel-noot.info](http://www.vogel-noot.info)

**VOGEL NOOT**  
THINKING AHEAD

## ©PLUS HELIOS 400 THE LATEST GENERATION OF PLOUGHS

Maximum ease of use and enormous stability – all part of the new **©plus Helios 400** plough range from Vogel & Noot. The 4 to 7-furrow ploughs are ideal for new-generation, top-class standard-wheel tractors (180–400 PS). The new universal slatted body XST 450 achieves optimal work quality even on slopes.

### Smart customers appreciate ...

- maximum ease of use thanks to new hydraulic comfort box
- extraordinary stability thanks to unique Shell Power Frame system
- optimal edge ploughing thanks to the close positioning of the wide wheel near the frame
- reduced weight/traction thanks to new design and high-tensile special materials
- safe working thanks to high trigger force of 7.5 tonnes
- optimal furrow clearance and crumbling in difficult, sticky soils and on slopes



## PHAROS 4600 THE CLEVER TRAILED SPRAYER

Crop-protecting, effective and especially user-friendly: the new **PHAROS 4600** trailed sprayer. The innovative chassis, the convenient, problem-free and exact metering and the precise linkage save time, money and nerves.

### Smart customers appreciate ...

- User-friendly and convenient operation with numerous new functions
- Flexible and precise linkage with special folding mechanism and variable geometry
- Crop-protecting work thanks to lifting height of up to 2.90 metres
- Safe transport thanks to low centre of gravity, exact tracking and low transport width



# UNICOMP LTD.

Agricultural Information and Management Systems

## Our products and services

- AGROSENSE is a wireless agricultural data acquisition system to collect real-time data such as soil moisture or leaf wetness to manage irrigation and other activities
- GRAINPATROL is a wireless grain monitoring system measuring temperature and humidity in stored grain
- REMOTETRAP observes the swarming of insects lured by pheromones and to improve timing of counteractions

“AgroSense – Care without nuisance”

## Our value proposition

Our company has been in the forefront of research and development within the field of Wireless Sensor Networks (WSN) for years.

Our Agricultural IT solutions support precision agriculture through agro-informatics, where nature meets human ingenuity and precision.

Our solutions feature low power consumption, unobtrusive operation and flexible operation.

Through smart farming, significant yield improvements can be achieved for plantation farming systems, green houses, outdoor vegetable farms and cropland management.

## Who we are

Our company was established in 1984 and has since developed network-based solutions and applications for precision agriculture and other industrial users.

Our goal is to continuously expand our products and services to support all farming stages from sowing, irrigation and unloading to harvesting and storage.

Our work has been recognized through several awards for innovation.

## Our work

We support industrial manufacturing facilities with our wireless data acquisition systems throughout the EU.

Our systems are supported by research conducted by one of the leading agricultural universities, the University of Szeged.

Our company is certified by ISO9001 and ISO14001 and our products are CE compliant.

We hold patents in radio interference and sensor applications.

[www.agrosense.com](http://www.agrosense.com)  
[www.grainpatrol.com](http://www.grainpatrol.com)

unicomp

## WIRELESS AGRICULTURAL DATA ACQUISITION SYSTEM

The **AgroSense** system is comprised of a wireless network of small meteorological stations and other measuring sensors.

**AgroSense** is an easy-to-install, accurate and reliable solution that collects high-resolution data such as soil moisture and leaf wetness, to help identify the need for irrigation, pesticides and other treatments.



Measured values are transferred wirelessly by the system and data is centrally stored and analysed.

Easy-to-use interfaces and applications help the user visualise and evaluate the data and triggers automatic alarms by text message or email when pre-set limits are exceeded.

## GRAINPATROL SYSTEM

**GrainPatrol** is a wireless grain monitoring system that is capable of measuring temperature and humidity in stored grain.

Easily deployed or removed, it is based on unique design which resists even the harshest circumstances over time.



Measured values are transmitted wirelessly and are stored by the system, enabling the user to access stored data. If critical conditions are detected, the system automatically triggers an alarm via text message or e-mail.



# WATER & SOIL LTD.

Water saving technologies

## Our products and services

Water Retainer is an organic components-based soil conditioner which helps to reduce water usage and diminish the effects of drought and dehydration. Water Retainer increases yield and reduces costs in home and urban gardening, in agriculture and for parks and golf course maintenance.

“Sustainable products for a sustainable world”

## Our value proposition

The dramatic growth of world population requires an increase in agriculture output of at least 65% over the next 15 years.

While we face a multitude of resource constraints, water is at the core. With draughts and dry periods continuously on the rise, further accelerated by the climatic change effects water retention is key.

Our solution addresses the core issue of water retention and can be applied to over 3 billion hectares worldwide. With reduced irrigation needs and an increase in yields, the solution offers an outstanding return of investment to its buyers.



RESISTANCE

Plants can withstand longer periods without water or draught. The reduced fluctuation in ground water supply makes for a more resilient bio culture.



SAVE WATER



HIGHER YIELDS

Plants require up to 50% less water which reduces the risk of drying out and can be used elsewhere.



HEALTHIER PLANTS

Tests show that a more stable groundwater supply helps microorganisms live better in the soil. This results in better uptake of nutrients in plant root systems.



ORGANIC & BIODEGRADABLE

The liquid soil conditioner is based on organic materials and degrades without any residues within three months in the soil humidity.

## Who we are

Water & Soil Ltd. was established in 2014 to produce and commercialise the Water Retainer. The method and formula to increase the retention of water in the soil was invented by a team of chemists, mechanical engineers, economists and microbiologists in response to the major issue of scarcity of water.

## Our work

Water Retainer is currently being sold in Hungary and distribution agreements are currently under negotiation for Poland, Morocco, South Africa, UK and Ireland.

Expansion focus are over 100 countries with periods of mild draughts in Europe, Latin America, Africa, Middle-East, India, China and Australia.

The product has the license for the use in organic farming.



water&soil

[www.waterandsoil.eu](http://www.waterandsoil.eu)

# WATER & SOIL WATER RETAINER

## HOW IT WORKS

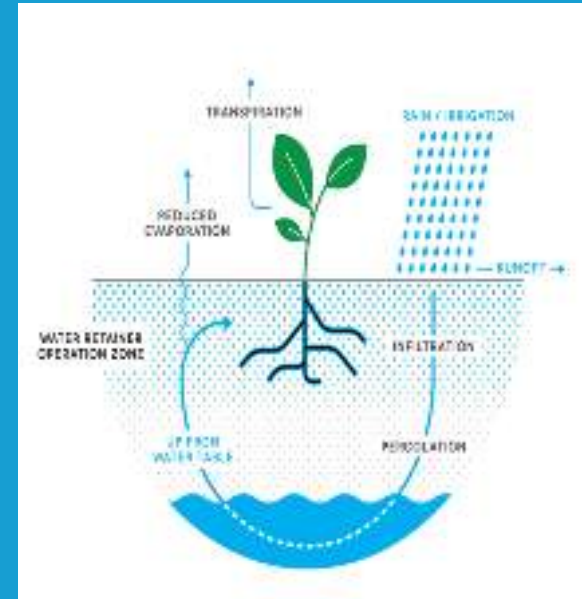
Water retainer is a water- based organic lotion applied to the ground by spraying or irrigation.

The hydrophilic character of the conditioner allows:

- Rain and irrigation water to pass unhindered to the water table.
- Upcoming soil moisture is deterred from passing and evaporating on the surface but is instead wed to water droplets
- Even the stronger hydrophilic roots now draw the water droplets towards the roots

Water retainer creates three clear advantages:

- Steadiness in the water balance through reduced evaporation and increased water uptake by the roots system
- Can be applied in any vegetation culture and any soil type without modifying the root system
- Humidity is taken from the air and trapped in droplets across the roots



## IRRIGATION COST SAVING FOR GOLF CLUBS FROM THE USE OF WATER & SOIL WATER RETAINER

Ten litres of Water Retainer per hectare were sprayed onto the surface of the fairway. In a second step, the residuals on the grass were washed off by 2.5 mm of irrigation.

Over a one-month period, we applied 50% less irrigation every second day for the treated part of the fairway.

Without visible difference in the condition of the fairway between treated and untreated control area, at this dosage of Water Retainer about 25% of irrigation water are saved.

With doubling the dosage to 20 litres/ha, we were able to reduce irrigation by a further 25%, so an overall saving of 50% of irrigation for this period.



## Our products and services

- Organic asphalt stabiliser additive for stone mastic asphalt (SMA)
- Organic cellulose insulation for houses
- Organic cellulose mulch for hydro seeding
- Organic cellulose grape pomace compost fertilizer

“ **Environmental construction and agriculture, yes we can!** ”

## Our value proposition

- Environmental friendly: We develop and manufacture environmentally-friendly products. All ÖKOCELL® products are made of 100% recycled materials.
- Uniqueness: We strive to continuously develop environmental friendly products starting from the ÖKOCELL® cellulose based construction materials to our newest product ÖKOMUSZ® for organic fertilization with maintained biological activity.
- Green impact: The use of our organic fertilizers replaces chemical fertilizers, pesticides and insecticides and creates a positive externality by reducing harmful substances from plants and without the contamination of ground and drinking water.

## Who we are

Our company was established in 1989 in the Hungarian town of Hajós-Hild and has developed into an SME with a unique portfolio of recycled and cellulose based organic products.

## Our work

Our products are distributed in Hungary, Slovakia, Romania, Macedonia and the United Arab Emirates, Turkey and the Kingdom of Saudi Arabia.

Our production process is carefully monitored through a quality management system and we are environmentally certified by the ÖKO2:201001.11/BMBR norm.



## PRODUCTS

**ÖKOCELL®** is an organic stabiliser additive used to manufacture mastic asphalt from standard granule size mineral mix bitumen for road construction. Crushed stone mastic asphalt manufactured by using **ÖKOCELL®** is extremely resistant to environmental impacts and loading stress. Usable in every asphalt mixing plant and dosages can be fed mechanically, by air engineering or manually in standard units for batch mixers.



**ÖKOCELL-SZ®-SZIG** is a cellulose based insulation for walls or roofs or for insulation of passive houses. It has a high heat storage capability and the completed insulation is solid and free of cold bridge. The insulation can be completed within a short time period with an effective blowing method and is dust and waste free.

**ÖKOMUSZ®** is a potent organic fertilizer based on grape pomace compost based on a side product of wine making with its use dating back to the ancient Sumerians. It restores the lost nutrients in the soil while maintaining its biological activity, increasing crop quality, plant resistance towards parasites and bio activity while it prevents nitrites, acids, and pesticide leaking into groundwater. It completely replaces chemical and other fertilizers and 100 kg (220 pounds) of ÖKOMUSZ have the same potency as 3-4.5 tons (6,600-9,900 pounds) of cow manure.



**ÖKOCELL®-MULCS** is an environmentally friendly cellulose fibre, reproduced from natural raw materials and is used for hydro seeding allowing mellow green coverage. Solves the biggest problems of grass seeding by creating optimal conditions by preventing seeds from dehydration, hindering birds from picking the seeds and allows coverage for difficult or inaccessible areas. The material is degrading for 100% and it can be used also by smaller hydroseeding machines thanks to the handsome consistence of the bale. 1 bale (13kg) can seed 130m<sup>2</sup>.

# ARUNDO CELLULOZ FARMING

Biomass and biofuel

## Our products and services

- Arundo bareroot in vitro plantlets for acclimatization (greenhouse) – virus-free, genetically stable (non-GMO) vigorous, homogeneous, industrial scale
- Germination guaranties
- Technical and agricultural consultancy

“**Arundo Donax – Promising new crop for the biomass industry**”

## Who we are

ACF LLC was placed in 2013 from a strong belief in green energy and the promotion of renewable energy resources. We produce plantlets on an industrial scale that are uniform, vigorous, genetically stable and virus-free from sustained embryogenic plant cell culture. Environmental protection is at the heart of our activity and we are committed to the principles of sustainable development.

We provide the solution to involve marginal lands into biomass production for different renewable industries. We strive to save forests and other natural habitats by using perennial energy crops to produce biomass feedstock. Arundo also focuses on phytoremediation, cleaning contaminated soil and improving its quality.

## Our value proposition

ACF LLC is privately owned start-up company from the Biotechnology Industry. We also provide consultancy services based on acclimatization and plantation management technologies. In our intensive R&D activity with USC, we have developed new ecotypes (i.e., salt, cold, heavy metal tolerant, etc.) and continue to make technological improvements.

We produce Arundo donax energy cane bare root plantlets from our three laboratories in Hungary. The technology we use is based on sustained embryogenic plant cell cultures and we produce in vitro plantlets from somatic embryos. ACF LLC has a production capacity large enough to satisfy the needs of the Renewable Energy Industry.

## Our work

Our high-tech micro propagation laboratories produce and sell worldwide industry size, virus-free, robust, vigorous, homogeneous Arundo plantlets for the following industries:

- Biomass Power Plants
- Biogas Plants
- Second Generation Cellulose based bioethanol plants
- Paper and Pulp industry
- Textile Industry
- Furniture Industry
- Phytoremediation purposes

We sell our products in China, Brazil, Hungary, Africa, Italy, Spain, Vietnam, Slovakia and Serbia.

[www.arundo-donax.com](http://www.arundo-donax.com)



As a research company in biotechnology, we work with all renewable industry suppliers and producers. Our focus is to fulfill the biomass needs of Power Stations, Bioethanol producers and Biogas plants.

## OUR PROJECTS INCLUDE:

### China:

Feedstock for a power station, Phytoremediation, feedstock for the pulp and paper industry (replacing eucalyptus).

### Brazil:

Complimentary energy generation for sugar factories and for the hydro-energy sector, biomass for the steel industry, feedstock for biomass power stations, heat production for plaster and plaster board manufacturing industry.

### Other:

2nd generation cellulose based bioethanol production, **Italy**

Locally grown and harvested ADX biomass for local municipalities biomass heating systems, **Hungary**

Pellett and briquette production, **Spain**

Feedstock for Biogas industry, **Slovakia**

Complimentary energy generation for sugar factories, **Madagascar**





# AGROMETAL-FOOD-TECH LTD.

Dairy and brewery

## Our products and services

- Milk and dairy product processing plants and equipment
- Complete breweries and brewery equipment
- Cooling equipment (aggregates, heat exchangers)
- Pasteurisers for breweries, wineries and other drinks
- Milking machines for cows, goats or sheep
- Confectionary equipment (e.g. for special chocolates)
- Bacteria fermenters to degrade oil in an environmentally friendly method

**“ Turn-key technology is our expertise! ”**

## Our value proposition

Turn-key technology is our company's expertise! We offer small-capacity cheese making and brewing equipment to complex processing lines and large scale fully automated plants.

With many decades of experience, our partners can rely on us in every period of the partnership from educating their operators to brand management and marketing

Our approach covers all phases including: design, production, transport, mounting, operation, training and transfer of technologies.

Our equipment combines the age-old traditions of milk processing and brewing with the most modern and reliable technical solutions and hygiene requirements of the 21st century.

Our high-performance plants are known for their high-level of automation and low operating costs.

## Who we are

Agrometal is an innovative Hungarian company established in 1989, developing and manufacturing turn-key brewery and dairy plants for clients in Europe and Asia.

## Our work

From Berlin to Kamchatka our reference plants fulfill the strictest and newest quality standards and our equipment is present in more than 195 factories from Hungary to Austria, Germany, Croatia, Bosnia-Herzegovina, Serbia, Romania, Ukraine, Russia and Kazakhstan.

Our excellent work has been recognized by national and international awards including the Superbrand award in 2010 and in 2011.

Our company is certified by EUROPEAN CERT and we are working according to ISO 9001:2008 quality assurance standards which are regularly audited.



[www.agrometal.info](http://www.agrometal.info)

## BEST IN CLASS MILK AND DIARY PROCESSING AND PLANT SOLUTIONS

We unite the traditional milk processes with the most up-to-date technical solutions and hygienic requirements of the 21st century.

Our machines produce well-known products like milk, sour cream, yoghurt, yeast fermented products, cheese or cottage cheese but special products such as ricotta, curd snack and whey drinks. These products require the most modern technology.

While our small capacity machines are easy to handle, the biggest capacity plants are highly automated.

Our and your success is guaranteed by building turnkey dairy plants and processing lines, educating your operators and sharing with you the recipes of the best dairy products.



## TURNKEY BREWERY SOLUTIONS FROM PALE AND DARK, LAGER TO PREMIUM QUALITY BEERS

Our company provides the full procedure and production-line for small and medium sized breweries to brew excellent quality beers accustomed particularly for the local demands.

We plan and carry out the breweries by using the most modern and efficient technologies.

We unite the traditional brewing technologies with the strictest hygienic requirements using the most up-to-date materials.

We license the technology of our registered "KELLERS" beer range. In this range we can provide pale and dark, lager and premium quality beers.



# SAMPO FOOD PROCESSING TECHNOLOGY LTD

Slaughterhouse and meat processing technologies

## Our products and services

- Design and installation of complete slaughterhouse solutions
- Design and installation of complete meat processing plants
- Manufacturing of slaughterhouse and meat processing machines and equipment
- Manufacturing of hygiene equipment
- Repairs, modernization and automatization of equipment and plants

**“Complete meat processing technologies and individual solutions out of one hand”**

## Our value proposition

Our goal is to design, create and build complete meat processing technologies solutions that meet each customers' unique need and to constantly develop and improve our technology offering.

We offer complete slaughterhouse and poultry meat-processing plants including custom-built machines and equipment that are unique to the Hungarian market.

Our technology synchronizes our automatized systems from start to finish. Starting with livestock handling, through the evisceration process and the hygienic packaging of the end product.

We strive to balance the interests of management and employees in our commitment to satisfy our clients.

## Who we are

Sampo Food Processing Technology Ltd. was founded in 1990 and focused initially on the design and manufacturing of stainless steel food processing equipment.

Building on this expertise, we today work with a dedicated team of 45 employees and can offer the complete design, manufacturing and installation of slaughterhouses and meat processing plants with solutions unique on the Hungarian market.

## Our work

We currently export our products and solutions to Germany, Ukraine and Slovakia.

Our manufacturing processes and final products are fully compatible with all European Union health, hygiene and design standards including HACCP.

All manufactured products are fully CE certified.



sampo.hu

## HIGHEST QUALITY IN-HOUSE DEVELOPED AND MANUFACTURED EQUIPMENT FOR ALL TYPES OF LIVESTOCK AT COMPETITIVE PRICES

### Range of semi-automated and fully automated systems

- Overhead conveyor system (stainless steel flat-track and pipe-track and galvanized pipe-track with plastic lining)
- Loading systems and elevators
- Conveyor belts, frames systems
- Conveyor belts, PLC-controlled conveyor systems



### Slaughterhouse and meat processing equipment

- Stunning and killing machines, bleeding equipment
- Scalding tanks, de-feathering machines
- Evisceration machines (manual and automated)
- Cut-up equipment
- Balances from bench scale to truck weighing
- Smoke carts and skewers



### Hygiene, cleaning and refrigeration equipment

- Pumps, waste water filtering and cleaning
- Hand-basins and boot-washers
- Crate washer machines
- Disinfectors
- Refrigeration systems and equipment



# KORAX MACHINE FACTORY LTD.

Slaughterhouse and meat processing technologies

## Our products and services

- Slaughterhouses technologies for poultry and other cattle
- Meat processing machinery (e.g. conveyor belts, cooking-smoking chambers)
- Hygiene and cleaning equipment (e.g. box washers)
- Waste water and sewage treatment technology

**“ The mixed portfolio of slaughtering technology, food processing and machinery production is the key of our success ”**

## Our value proposition

Our corporate philosophy is based on the objective to provide our customers with the most comprehensive service offering at the highest possible quality, both in design, manufacturing, assembly, as well as in the provision of service.

Beyond production, we focus on research and development to meet the high and expectations and advanced needs of our customers. For this we employ of 120 qualified employees including 17 engineers and 5 sales managers.

## Who we are

Found in 1986, our Hungarian-based company has been specialised in slaughtering technology, food processing equipment and machinery production.

Over the past 20 years, we have developed our own products, systems and process lines. Aside from our main products, we also deal with sewage treatment technologies, box washers and create custom-built equipment.

Since 2006, we have started the production of solar panels. Today, Solar Korax is one of the largest solar cell manufacturer in Central Europe.

## Our work

Our food processing and conveyor products and solutions are sold across Europe, Moldavia, Russia and Laos to food processing and pharmaceutical companies.

Our company has received several awards for its innovative technologies and development projects. We are certified by SO 140001:2004, OHSAS 18001:2007 and ISO 9001:2008.

## PIG AND CATTLE SLAUGHTER TECHNOLOGY FOOD PROCESSING EQUIPMENT AND MACHINERY PRODUCTION

We have 30 years of experience in producing small and medium size pig and cattle slaughterhouses and different kinds of meat processing machines.

Starting with technology planning, machine planning, we manufacture and install your equipment and production line and include service assistance and spare part support.

We provide the complete process equipment from slaughtering, processing, hygiene to sewage water treatment:

- Slaughterhouse equipment such as stunning and killing machines, bleeding equipment or cut-up equipment
- Food processing equipment such as cookers, smokers, carts, fat processing lines, filling and cleaning tables, grinders and mixers
- Hygienic and sewage water treatment equipment including box washer, floor drains, filters, chemical dosing systems



## CONVEYOR BELTS AND MATERIAL HANDLING SYSTEMS

Our transportation system is able to transport different kind of crates and pallets. It is built on rolls and belts, in horizontal and oblique formations. We also have several kinds of elevators.

Our references come from the meat industry and the pharmaceutical industry.





# KALINA BARREL LTD.

Oak barrels

## Our products and services

Kalina Barrel Ltd. manufactures naturally-seasoned (24-36 months) oak barrels between 50 and 500 litres (13.2-132 gal.) for wine, whiskey and spirits

**“Our credo: For us, the case of the barrel is a matter of trust, so the barrel is the innermost confidential relationship between the cooper and the wine maker.”  
(Jókai)**

## Our value proposition

- **The Zemplén Oak:** Our finest barrels from Central Europe made from the venerable oak forests and in a particular the steep, rocky and cold region of Tokaj. Due to the pleasant aroma and color added during the maturing process, our barrels are highly sought after by wine makers in USA, Austria, Hungary and Germany.
- **Firing the Barrel:** The essence: after open air seasoning of the wood for 2-3 years, we fire the barrels with dried Zemplén oak wood. With the most modern technology, we control time and temperature to offer different toasting levels.
- **Respect for Mother Nature:** Oak trees are more than 120 years old when cut, therefore, we combine traditional workmanship with the most modern technology to minimize the loss of wood in processing.

## Who we are

Kalina Barrel Ltd is based in Tállya close to the Tokaj in Hungary. We are a third generation family cooper business run by five brothers who inherited the beauty and love of the trade from our father.

The philosophy of the firm and the best promotion are our satisfied wine makers for which we constantly improve the interaction of the three most important ingredients: Wood, fire and wine.

Today, Kalina's workshop is considered one of the best artisan cooperages in Hungary with an annual capacity of over 3000 barrels.

## Our work

Our barrels are exported to winemakers and spirit producers in Europe, Austria and the USA.

Our barrels are made to our highest standard, the KKÜ 07-1959, the „Barrel Making Home Standard of the Kalina Cooper Trade” which is altered to the individual request of our customers.

[www.hungarianbarrels.com](http://www.hungarianbarrels.com)



## BARREL OF GÖNC

136 LITRES – 36 GALLON

A traditional winery liquid measure by the Tokaj wine makers, this 136 litre oak barrel is a nicely-shaped heritage barrel we keep close to our hearts.



## BARREL OF SZEREDNYE

220 LITRES – 58 GALLON

The most popular barrel among Tokaj wine makers has an optimal container and maturing capacity. Its classic barrel shape is spacious.



## BARREL OF BORDEAUX

225 LITRES – 59 GALLON

The most beloved and popular wine barrel in the world due to its longish, cigar shape which exposes the wine to a larger wooden surface during maturing.



## BURGUNDY BARRIQUE BARREL

228 LITRES – 60 GALLON

With the same qualities and capabilities as its younger and more popular Bordeaux brother, this barrel holds 3 litres more in volume.



## GREAT OAK BARREL

500 LITRES – 123 GALLON

The largest barrel produced, highly favoured in the Tokaj mountains, with almost 110 kilo weight when the 3-year-old dry oak is soaked.

# DILACO LIGHTING LTD.

Poultry lighting

## Our products and services

Unique poultry LED lighting able to manage the most complicated lighting tasks.

“The new generation of agri lighting”

## Our value proposition

We offer an innovative solution to poultry lighting needs. Our energy-saving “High Power LED” lighting system design, manufacturing, distribution and technical assistance for fowl keeping makes us a leader in our field.

Benefits include:

- **Improvement of egg production intensity**
- **Egg weight improvement**
- Long lifetime (50 000 h)
- Even 90 % energy-saving
- Low current reception, 3 watts/lamps
- High operation reliability, low voltage circuit
- Space-saving, cost-efficient technology, great range of colors
- Dimmable (0-100%)
- Light control according to fowl keeping technology specifications
- Simulation of dawn and dusk
- Quick and simple installation
- Better feeding value
- Improvement of gain in weight
- Quicken earlier sexual maturity
- Extension of laying period
- Less stress
- Production improvement
- Less scraps and perished animals

## Who we are

With more than 30 years of engineering experience behind us, Dilaco Lighting Ltd. is the sole develop and producer of the new generation of poultry lighting which not only breaks with traditional lighting but exceeds common LED technology.

Our optical controlled system can cover the whole barn's illumination without dark spots and manage to maintain homogeneous brilliance even in multi-layered caged and voliere type barns without unnecessary light-pollution.

This is a solution specifically designed for agricultural duty and fits every method of keeping and every type of poultry.

## Our work

Dilaco is currently marketed in Hungary.

[www.dilacolighting.com](http://www.dilacolighting.com)



## INNOVATION AT 16 POULTRY FARMS IN HUNGARY

Dilaco Lighting Ltd. has developed innovative agricultural lighting systems featuring long life spans, extraordinary cost-effectiveness and low environmental impact.

Along with these benefits, our lighting takes into consideration animal welfare guidelines and strict European Union directives. These systems are excellent for all breeds and farming methods. They have a range of 0-100 Lux and feature High-Power and COB LEDs.

### Our systems are:

- Open for manual modification
- Pre-installed with lighting programs for breeders
- Delivered in a ready-to-use IP65 protected switchbox

For relatively costly lighting systems that meet all the above requirements, the payback period can be as short as 1 or 2 years.



[www.dilacolighting.com/video2](http://www.dilacolighting.com/video2)



# ZIP TECHNOLOGIES LTD.

Brewery systems and equipment engineering

## Our services

At ZIP, we are your service partner throughout the entire brewery development process through our service offering:

- Choice of location and consultation
- Customer-orientated equipment design and manufacturing
- Engineering plans and equipment layout
- Business plan for the brewery
- Beer recipe development and raw materials sourcing
- Complete assembling and commissioning at brewery site
- Personnel training
- Equipment warrantee and after sales service

## Our products

- Brew systems from 250 to 4000 liters
- Restaurant breweries with table tap systems
- Tanks and vessel
- Hopping equipment
- Accessories (e.g. keg cleaning & filling, bottling, level)

“**Make beer not war**”

## Our value proposition

We are in this business because we love it. We love guiding you through the exciting process of building a brewery. We design your brewery equipment, fit it into your concept and literally bring your vision to life. We consider our clients as partners, our relationships with them spanning through decades.

Brewing equipment developed by ZIP is forward-thinking. Our goal is to make brewing enjoyable and seamless and bring to a small scale the technology, consistency, automation and control usually only enjoyed by mammoth breweries.

Everything we do, we do with a meticulous eye for the maximum level of quality, consistency, durability and reliability.

## Who we are

Established in 1993, ZIP Technologies is manufacturer of brewing equipment and a provider of complete, turn-key brewing solutions for the brewpub, craft brewery and microbrewery industries.

## Our work

With over 22 years in the brewery industry, over 125 breweries operate our equipment globally from Europe, Asia, Africa to the US.

Our team of 31 engineers and 60 specialist ensure the best technological solutions and we are dedicated to maintaining a sustainable environment using the most efficient production processes. Our manufacturing plant, located in Miskolc, Hungary, operates on a 7,000 m2 space and is fully EN ISO 9001:2000 certified.

**Zip**Technologies

COMPLETE BREWING SOLUTIONS

[www.ziptechnologies.eu](http://www.ziptechnologies.eu)

## ZIP'S BREWPUB EQUIPMENT

A different kind of restaurant that is on pace with today's trends in gastronomy, a brewpub restaurant features brewing equipment on display for the guests. Beer is freshly brewed, fermented, served and consumed on premise. Brewpub equipment manufactured by ZIP is designed to fit the needs of your restaurant.

With over 20 years of experience working in restaurant spaces in locations ranging from ancient cellars to floating ships, the team at ZIP understands multiple challenges you face when fitting a functioning brewery into your restaurant. We aim to combine form and function in the design so it results in a beautiful product that isn't simply a design feature, but also an active part of your business.

In order to serve a diverse range of partners, ZIP has expanded its product offering and provides the equipment, different in accessorization, automation and design.



## ZIP'S CRAFT BREWING EQUIPMENT AND ACCESSORIES

Micro-breweries are usually tooled up with equipment that allows for the production of over 1.000 liters of beer per shift, but every micro-brewery is different – our engineers will design the right brewery that is fit for your business goals.

The development of brewing equipment for such projects typically begins with a comprehensive consultation during which an understanding of the exact needs of the investor is obtained, including desired beer output, amount of desired beer types, sales and distribution methods. Based on this, a brewery concept is developed.

### ZIP's line of accessory quipment includes:

- UNI-tanks
- BBT(DRUCK) tanks
- DUO-tanks (with inliners)
- Manual/automatic keg filler-cleaner
- Dry Hopping equipment





# MANOOI

Home furnishing and retail design

## Our products and services

Custom-made crystal chandeliers

**“We're passionate about bringing light to you in its purest form.”**

## Who we are

Manooi is a Budapest-based company specializing in crystal chandeliers of the highest quality. With its timeless designs and legendary quality in crystal manufacturing, Manooi offers an extensive range of chandeliers for any settings (from classic to modern) with an aim to re-create and enhance the positivity of natural light in homes, public building, private residences to hotels, restaurants and retail outlets; creating new universes every day.

## Our work

Manooi work with architects around the world, developing special light installations for their projects.

Year after year we are excited to present Manooi's latest collections to our loyal international clients, many of them are art loving individuals with a constant desire for new and powerful aesthetics.

The demand for a more personal design led us to experiment with new materials, design accessories and furniture.

## Our value proposition

**MANUFACTURE:** The Manooi atelier is where these magnificent light creations take shape. Every Manooi design is the product of long hours of expert workmanship. It doesn't end here; Manooi's quality control procedures ensure it undergoes a rigorous inspection process such that it meets and exceeds the highest standards in the industry. A special area of the atelier is dedicated to the expert design of Manooi's bespoke chandeliers and to product development.

**MATERIALS:** Crystals emerged as the component of choice and remain the quintessential material of Manooi chandeliers. Reflecting and refracting the light, these universally-loved gemstones are statement-making, and create a remarkable effect. Manooi chandeliers' stainless steel frames can be gold-plated to match the interior and are assembled with specially designed and manufactured fittings. The use of special light bulbs and wiring ensures the longevity of these light creations, guaranteeing decades of illumination.



www.manooi.com

## ILLUMINATE YOUR LIFE

Founders, Judit Zoltai and János Héder, have nurtured and evolved the Manooi atelier into what it is today. Their vision grew out of their own personal experiences, beliefs and expertise. Inspired lead designer János invites us to experience a new world in lighting. **“Light creates space – as an architect I work with light sources as determining elements of a given space.”**

- Inspiration is drawn from the world around us and found in natural sources of light.
- Simple geometrical shapes create harmony for the human eye.
- Timeless, contemporary designs transcend passing trends.



# NOVO QUADRATUM LTD.

Home furnishings

## Our products and services

Furniture: Production and trading of unique shelves.

“Simply fitting

”

## Our value proposition

Our beautiful shelves have a design unique to the industry. Most of our finishes are 100 % waterproof, so they can be placed in wet, or humid places or even outdoors. Our shelving systems can weigh 6-7 kg, though the load-bearing capacity can be up to ten times stronger. Options like colour, veneer finishes and hidden lighting lead to truly breathtaking impressions.

## Who we are

Since 2012 Novo Quadratum has been creating unique and exclusive furniture with 15 years of furniture making experience.

The plans of the shapes are born through digital programs and conform to strict feasibility standards before they receive their highest quality hallmark, the Novo Quadratum logo.

## Our work

All of our products are handcrafted in the EU.

[www.novoq.eu](http://www.novoq.eu)

NOVO  
QUADRATUM

## UNIQUE SHELVING

LIGHTWEIGHT DESIGN AND EASY INSTALLATION

Novo Quadratum makes beautiful and unique shelving using special materials and designs. Our material and production technology enables a special curved shape in our elements and allows for an unmistakable intertwining of components. A variety of colours enable the customer to realize different ideas.

### Fornicatus Arched Novo Quadratum Shelf System

In this shelf system arched or wavy elements are used. Our arched pieces are produced individually, manufactured in a moulding press.



### Angulus Novo Quadratum Shelf System

This special shelving system enables these special shelves to be mounted in corners.

### Lignum Veneered Novo Quadratum Shelf System

Lignum means wood. The elegance of this veneered wood surface in combination with the Novo Quadratum design makes for a lovely showcase piece.



### Area Separatio Novo Quadratum Shelf System

These special shelves consisting of traditional elements serves as a vertical room divider.

# SZINGA SPORT LTD.

Shoes, apparel and accessories

## Our products and services

Production of shoes, apparel and accessories which are designed by Hungarian artists.

“ **Life is my masterpiece** ”

## Our value proposition

High-quality uniquely designed pieces made by Hungarian artists in limited quantity. Artistic fashion. Unique streetwear. We are proud ourselves in our customer service, satisfying our customers needs with creative premium products, special collections and limited-edition products.

## Who we are

Dorko is a Hungarian fashion brand, founded in 2013 with the aim of connecting art with fashion and artists with ordinary people. We want to create things which are unique, eye-catching and interesting.

The basis of our brand comes from the vision to help local young artists get into the spotlight and to support their art, imagination and development. We collaborate with the best young sculptors, fashion designers, street and tattoo artists, musicians, and architects.

## Our work

Among our partners are premium brands, special collections in footwear, apparel and accessory lines. We work together with big brands like Nike, Vans, Adidas, Converse, Djinn's, Cayler & Sons. DORKO products are CE, ISO, FDA certified.



[www.dorko.eu](http://www.dorko.eu)

## OFFERING PREMIUM BRANDS' SPECIAL COLLECTION AND UNIQUE PIECES. EXTRAORDINARY DESIGN FOR EXTRAORDINARY PEOPLE

**DORKO** presents fresh, unique collections from Hungarian artists in partnership with premium brand products, special collections and limited-edition pieces. We cooperate with young local artists of all types and big brands like Nike, Converse and Adidas to bring a unique artistic offering to fashion.

We hope to expand into brick and mortar stores abroad, raising the profile of young Hungarian artists internationally. We plan to partner with musicians, artistic and cultural institutions and universities, bringing a new line of unique designed merchandise products to the world and increasing our distribution lines.



## DORKO - DESIGNED BY HUNGARIAN ARTISTS EVERYDAY PEOPLE WITH ALTERNATIVE TASTE IN STREET FASHION

Our product line offers a spring/summer and winter shoe collection. Shoes and apparel are designed in Hungary using Hungarian designers and local artists.

We produce our goods in Hungary, China, Vietnam and India. Different products are made with different technological industry implementation.



We want our clothing to act as a canvas, spreading art and a message to the people. We support special organizations and movements because we care for our city, our country, our world and our problems.

## CONNECT FASHION WITH ART

We aspire to have our own Szinga Sport brand, connecting fashion with art. We hope to support Hungarian designers and artists in presenting their own designer shoes and apparel in and out of the Hungary.





# VARIQ WORLD

Pre-fabricated luxury cabins

## Our products and services

Innovative tailor-made luxury cabins with intelligent controls and variable layouts for virtually any set up.

- Spa and wellness cabins
- Home cinema or cigar rooms
- Easy-to-relocate salons
- Garages
- Mobile offices
- Pavilions for catering functions

**“Intelligent luxury cabins – without limitations”**

## Our value proposition

We offer Hungarian-developed and patented premium category outdoor cabins built exclusively to individual specifications.

The expertise, complex reasoning, customer-oriented approach and enthusiasm of our colleagues guarantee the high quality and long service life of our products.

The VARIQ team includes interior designers, mechanical and electrical engineers, controllers, product managers and experts in IT, communication, PR and business.

Do not compromise. Choose VARIQ intelligent luxury cabins – choose the technology of the future!

## Who we are

VARIQ was built on the vision of Csaba Pődör in his mission to strive for excellency as an engineer and several-time Hungarian kick-boxing champion, World Cup winner, and World Championship finisher.

“While training and running in a forest, I envisioned I could stop right there and relax in a hot sauna, while enjoying the purity and harmony of nature and watching the birds and the swaying of the trees in the gentle breeze. On my way home this thought turned into an idea, which later materialised in the VARIQ brand.”

## Our work

VARIQ is the elegant harmony between variability, intelligence, and quality. The perfect answer to harmonise nature with the most cutting-edge technologies.

<http://variq.hu/>



## VARIQ LUXURY CABINS FOR SPORT, WELLNESS AND NATURE

**Our ready-to-use cabins come fully equipped and furnished and can be set up almost anywhere to provide the perfect location for therapeutic and health-related services.**

They can be customized to suit any specifications. Our cabins can be used as cryotherapy (cold shock) chambers, salt therapy rooms, various types of saunas, Jacuzzis and more.

Cabins can be fit together and turned into a complete beauty centre offering a complex range of services.



## VARIQ LUXURY CABINS UNLIMITED OPPORTUNITIES FOR BUSINESS

**Set up on tiny lots or in public spaces, VARIQ cabins can be set up for various functions.**

Mobile offices, conference or presentation rooms, smoking rooms, mobile garages or a sound-proofed home cinema.

Each cabin can be easily branded, transported and relocated and are a perfect solution for road shows.

Cabins can be fitted together in any formation for novelty and spectacular design.



# BAKONYERDŐ ZRT.

## PARQUET FACTORY

Home furnishing

### Our products and services

High-quality engineered wood floorings

“Naturally, from wood!”

”

### Our value proposition

BEFAG offers high-quality engineered wood floorings with special surface treatments at a good value.

### Who we are

BEFAG is a Hungarian parquet manufacturer featuring innovative, high-quality engineered wood floorings. Our 35 years of experience has positioned us as a solid and financially mature company.

Our mission is to produce and sell a wide range of high-quality and up-to-date products, using flexibility and innovation. We aim to have the best personal relationships with our buyers.

BEFAG anti-bacterial wooden flooring was awarded the “Hungarian Quality Product Award” prize in 2012.

### Our work

BEFAG is located in Western Hungary, providing access to delivery routes through all parts of Europe.

Our products with the brand name PanLoc are produced by using the lock-license of the Swedish company Välinge.



[www.befagparketta.hu](http://www.befagparketta.hu)

## BEFAG WOODEN FLOORING

### BRINGS NATURE INTO YOUR HOME OR OFFICE

Wooden surfaces have always been a popular way to bring the peace and beauty of nature into your home or office.

Several decades of professional experience, a committed staff and our regularly upgraded production technology guarantee that **BEFAG wooden flooring** will enable you to create the harmony you are striving for.

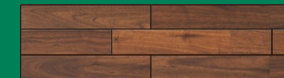
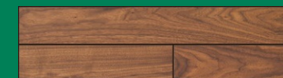
This is an environmentally friendly product created using state of the art technology. Its eight layers of lacquer incorporate ceramic particles that contain silver ions, preventing the growth of bacteria and fungi found on floor surfaces.

STRUCTURE: **BEFAG wooden flooring** consists of three parts. The lower and the middle layer are made of pinewood. The top layer is made of hard wood, available in various colours adjustable to the atmosphere of the space.

Hard woods include Oak, Black Walnut, Turkey Oak, Ash, Acacia, Wenge and Doussie. Our woods come in a variety of hardness to accommodate traffic patterns and use.



1. PINEWOOD VENEER
2. PINEWOOD LATH
3. TOP LAYER MADE OF HARD WOOD
4. VARIOUS SURFACE TREATMENTS



# ZADOR EUROPE LTD.

Skin care

## Our products and services

Manufacturing and retailing soap products.

“ Tradition, Purity,  
Innovation and Style ”

## Our value proposition

We believe that the combination of traditional techniques and modern processes with high-quality natural ingredients, results in the creation of a high-end product. Our beautifully scented soaps are infused with healing thermal water from Lake Hévíz. Plant-based and triple milled, then hand-wrapped in award-winning packaging, our soaps truly stand out and are of superior quality.

## Who we are

Since 2014, our manufacturing facility is located in a traditional old house with modern service rooms in Pécsely, at the bottom of Zádor Castle. Pécsely, a little village with a population of 600 and with an abundant natural beauty. Our products – made of the highest quality, organic raw materials of the region with more than 1000 years of history – are manufactured and packaged here, in the heart of the Balaton Uplands.

## Our work

ZADOR products are CE certified.



**ZADOR**  
· FINE BAR ·

[www.zador.com](http://www.zador.com)

## ZADOR IS A SOAP LINE

INSPIRED BY THE PEACE, FRESH AIR, AND STUNNING LANDSCAPES OF NATURE, REFLECTING THE SPIRIT OF THIS UNIQUE ENVIRONMENT

**ZADOR** Soap uses a triple-milled production method originating from traditional French soap manufacturing of the early 1700s. During the production process, soaps are pressed by steel rollers, compressed, and refined several times, evenly distributing ingredients. Every single piece of soap is compressed by a hand-driven tool to shape it into its final form.



**ZADOR** Soaps have a beautiful appearance and simple design. As a final step, our soaps are packed by hand, for final quality control.

## EACH BAR OF ZADOR SOAP IS MADE BY USING THERMAL WATER

OF EUROPE'S LARGEST HEALING WARMWATER LAKE, LAKE HÉVÍZ

Perfume and inspiration have always gone hand in hand; this is why ZADOR soaps' fragrance collection combines tradition with curiosity in the following scents:

- FIG - PEAR
- LAVENDER - VERBENA
- COCOA
- PAPRIKA
- ROSE
- CHERRY BLOSSOM
- RED GRAPE
- PURE



One of the key ingredients of our products is Shea butter with exceptional moisturizing and skin-regenerating effects. The high vitamin E content of vegetable oils ensures the durability of ZADOR soaps without the additions of any artificial substances.

## NOURISHING EVERYDAY SOAP BARS WITH SKIN HEALING PROPERTIES

Our objective is to meet the best internal and external quality. This final phase of the handwork makes our products come alive and fills them with love.





# KONOGENEX LTD.

Skin Care

## Our products and services

Stem cell based creams and lotions

“**The Secret  
of Youth**”

## THE LILITH KONOGEN FAMILY HELPING AGING SKIN RETAIN A YOUTHFUL LOOK

The Lilith KoNoGen Family contains four products to help ageing skin retain a youthful look.

**Lilith Day and Night Face Creams:** Thanks to the extract of plant stem cells these creams improve the elasticity of skin. Hyaluronic acid and Argan oil slow down the aging process reducing the appearance of wrinkles, smoothing and softening the skin.

**Lilith Whitening Cream:** Using all natural ingredients like shea butter, jojoba oil, vitamin E, vitamin A and albutin, this whitening cream has a skin lightening effect, lightening darker spots (hyperpigmentation) on hands, face and body and helping delay the premature aging of skin cells.

**Lilith Tonic:** Lilith face tonic gently and effectively cleanses and tones facial skin, reducing wrinkles, moisturizing skin and vitalizing skin with vitamin E.



## Our value proposition

One of the greatest opportunities of the 21st century is the discovery and use of active, natural ingredients which help people look youthful. Plant stem cells, when topically applied through cosmetics, can be transferred to the deeper layers of skin, support the reproduction of the skin's own stem cells. Re-generation of skin, smooths wrinkles and helps ease or reverse the aging process. Plant stem cells promote the vitality and longevity of skin stem cells, supporting cell re-activation and helping to reinforce firmness and elasticity of skin. Our products are free from parabens.

## Who we are

With more than 30 years of expertise in the cosmetics industry, Kovács-Zombai Leonóra, one of the founders of Herbaria, brings a new company and a new luxury product line. KoNoGenex, founded in 2014, begins its debut with Lilith.

## Our work

KoNoGenex products are CE certified.



LILITH

[www.lilithcosmetics.com](http://www.lilithcosmetics.com)

## THE LILITH YOUNG FAMILY KEEPING YOUNG SKIN BALANCED AND HEALTHY

The Lilith Young Family contains three products to help young skin stay balanced and healthy.

### Lilith Young Day and Night Face Creams:

These innovative creams use witch-hazel, comfrey and marigold extracts to care for the skin.

### Lilith Young Tonic:

This face care tonic gently and effectively cleanses and tones the skin. Horse chestnut and aloe vera extracts combine to gently cleanse and tone facial skin. Vitamin E, shea butter and jojoba oil nourish and vitalize young skin.



## THE LILITH GOLD FAMILY LUXURY CARE FOR YOUR SKIN

The Lilith Gold Family provides a new level of skin-care, focusing on healing inflamed and damaged skin with a major focus on deep moisturization. Lilith Gold includes three creams rich in natural ingredients like donkey milk powder, karst water, colloidal gold and rich vegetable nutrients.

Donkey milk heals blemishes with a composition most similar to human breast milk. Coloidal Gold, plays a major role in the delivery of moisturization to deeper layers of your skin. Mineral components found in karst water, contribute to the optimal functioning of your skin.



**Lilith Gold Day and Night Face Creams:** Lilith Gold brings you both a day and a night cream rich in natural ingredients like shea butter and jojoba oil. Our day cream includes pumpkin seed oil, evening primrose oil and avocado oil to nourish the skin during the day. It contains vitamin A and vitamin E which have antioxidant effect. The marigold extract provides anti-inflammatory effect. The moisturizing effect of the aloe vera ensures elasticity of facial skin. Our night cream includes horse chestnut extract, promoting congestion and fading skin defects. The product is free from parabens.

**Lilith Gold Eye Cream:** Innovative skin care ingredients nourish found in both our Gold Day and Night Creams, smooth and fill the sensitive skin around the eyes. Its components delay the premature aging of cells, increase the vitality of skin cells and reduce wrinkles. Our Eye Cream features SESAFLASH is a multicomponent agent containing hydrolysed sesame protein providing a very quick and noticeable firming and anti-wrinkle effect on skin.

# CIVITA FOOD LTD.

Pasta, oils and fodder

## Our products and services

- Corn-based polenta, cornidge, flour and pasta
- Cold-pressed corn oil
- Extruder, corn flake and brewery grits
- Corn germ press cake

“The best of corn, sustainable health”

## Our value proposition

Civita is an innovative, customer-centered company that supplies high-quality products and services, exceeding our customers' expectations. We offer a range of foods that are nutritious, delicious and practical. With our gluten-free corn products, a healthy lifestyle is simple and rich in flavor.

Corn is rich in fibre, B-complex vitamins, antioxidant carotenoids, folate, niacin, and thiamin, in particular, abundant in phosphorus and is a natural source of magnesium, iron, zinc, and ferulic acid. We use the best GMO-free, chemical-free and gluten-free, Hungarian corn.

## Who we are

Civita Food Ltd. and Agri Corn Ltd. were founded in 1992 as a family business. We are a Hungarian leader in the corn industry supporting more than 200 corn-farming families.

Our oil-press plant and corn mill manufacture stock for the food industry (brewing, corn flake production, breakfast cereals, child nutrition) as well as the pharmaceutical and pet food industries.

The latest result of our product innovation is a cutting-edge corn oil-presser, capable of producing 3,000 tons of oil each year.

## Our work

Our company has received accolades by the Hungarian Academy of Sciences and we have won several awards for our innovation and products.

Our product line is sold in the European Union, Russia and Belarus.

Civita uses strict quality control, complies with ISO standards and meets the requirements of the IFS system.

[www.civita.co.uk](http://www.civita.co.uk)



## CORN PASTA

Civita gluten-free pasta is made of naturally gluten-free ingredients suitable for the gluten sensitive and health conscious customers.



## CORN OIL

A GMO-free, chemical-free, 100% pure and unrefined cold pressed oil rich in flavour and in cholesterol lowering phytosterols and polyunsaturated fats.



## FLOUR

Corn flour is the finely powdered cornmeal, high in fibre, which thickens any sauce or soup and adds flavour to your pancakes, biscuits or bread recipe.

## CORN GRITS

Prepared in different granulate sizes and qualities as raw material for corn flakes or as replacement for traditional hop or barley in the brewery industry.



## FODDER

Our new product, the corn germ press cake is oil compressed and used for fodder, fish food or dog biscuits.



GLUTEN  
FREE



GMO  
FREE



CHEMICAL  
FREE



DIARY  
FREE



EGG  
FREE

Our products are available in various packaging options and sizes.

# DETKI KEKSZ LTD.

Confectionary

## Our products and services

- Organic biscuits for babies
- Animal shaped biscuits for kids
- Biscuits for on-the-go teens and hikers
- Diabetic-friendly products
- Cereal biscuits
- Fairy tale honey linzers
- Tere-Fere family soft biscuits
- Household biscuits
- Single packed biscuits
- Crackers
- Chips

## Our value proposition

Our mission is to develop high quality products at a reasonable price, driven by our commitment to healthy nutrition.

Our customer focus allows us to meet individual customer requests in taste, size and packaging.

Our employees work together as team to ensure that we meet the highest food safety standards, create the highest quality products and ensure continuous improvements and innovation.

## Who we are

Detki Keksz Ltd is a Hungarian-owned company established in 1983, focused on the production of high-quality biscuits. With three decades as a dominant player in the domestic confectionary industry, today, Detki is a Hungarian household name.

With more than 140 employees, we are proud to offer a growing line of healthy and nutritious biscuit choices including certified organic, vitamin enhanced and diabetic-friendly biscuits.

## Our work

We currently deliver in Hungary and Central Europe as well as in Asia and the Arab world. We are working on expanding our distribution.

Our products have received various quality, innovation and brand awards.

The company is certified according to Hungarian and EU (HACCP) as well as International (IFS) food processing norms and our organic products are tested and certified.

**“Detki –  
Always a  
good choice”**



[www.detkikeksz.hu](http://www.detkikeksz.hu)

## ORGANIC BISCUITS

For the healthy diet. Our products are made from organic ingredients for all ages: our organic baby biscuits are adapted to infants' needs from 6 months on.

## CRACKERS

For those in favour of salty tastes, we offer an assortment of the most popular tastes with our Detki brand. Our crackers are the best choice for a movie night or a party, but also a favourite to be included in your picnic basket.

## CHILDREN'S CRACKERS

For playful children full of energy. Our popular animal-shaped biscuits are now available in salty version, as crackers, in cheese and ketchup flavours. The product does not contain any flavour enhancers or artificial colourings.

## LURKÓ BISCUITS

For the ever-moving student. Biscuits enriched with vitamins and minerals. Your best friend when hiking or on the playground. We offer milk, cocoa and whole grain versions.

## FAIRY TALE HONEY LINZERS

The traditional biscuit. In addition to the highly popular dipped dark and milk chocolate "fairy tale" varieties, we are now also offering apple-cinnamon and orange-ginger versions, perfect for consumption throughout the year but an ideal holiday biscuit.

## OAT BISCUITS

Our popular "Oat dream" products are available as bars and in a number of flavours, so they are always at hand whether you're hiking, working at the office or at school. These biscuits feature a trendy design symbolizing power and energy.

## DIABETIC-FRIENDLY BISCUITS

The sweet taste of a biscuit without the sugar for those with diabetes. Three flavour varieties ensure that everyone has a favourite! Our packaging outlines all product-related information needed to ensure a suitable diabetic diet.

## CHIPS

Our new product from the oven. Chips fans now have the opportunity to taste this snack prepared by special technology in salty, cheese and sour cream and onion flavours. Our crackers are baked in the oven with no oil used, in order for us to be able to offer them with reduced fat content.





# HUNGAROTEJFELDOGOZÓ LTD.

## ST. MARTONI CHEESE

Dairy Products

### Our products and services

Semi-hard, moulded, Kashkaval cheese, pressed cheese, cream cheese, flavoured cheese rolls and Grillcheese

“ Say cheese,  
say Martoni ”

### Our value proposition

We concentrate on sourcing only the best quality raw materials. The high quality milk we use comes from strictly-controlled systems, including a dairy farm within our company.

Industry-best production practices and highest quality raw materials provide up to a 24 month shelf life for our cheeses.

### Who we are

St. Martoni is the brand of our cheese factory based in Kunszentmarton, Central Hungary. Our cheese factory processes 10 million litres of milk per year. The factory specializes in the production of semi-hard fat Kashkaval cheese.

Based on our technology and special recipes, we produce tasteful and high quality cheese based on hundreds of years of tradition.

In our product portfolio, there are also smoked Kashkaval cheese-rolls (with different flavours) and our newest product, Grillcheese.

The knowledge and passion of our Cheese Masters guarantee the highest quality products.

### Our work

Our cheese products are sold in the European Union and almost all of our Kashkaval cheese production is sold in the Gulf countries as private-label products.

Our company was awarded “2014 Cheese-Maker of the Year” in Hungary.

Our food production is certified by HACCP and our cheese is certified by the Jordan Food Authority, while our Grillcheese is patented.



[www.stmartoni.eu](http://www.stmartoni.eu)

## KASHKAVAL CHEESE

### THE PRESERVED TASTE

- Kashkaval is a semi-hard moulded fat cheese with a characteristic-aromatic-salty flavour.
- The cheese is white or light yellow coloured and light brown when it is smoked.
- It is easy to cut, grate and an excellent topping for many foods. Kashkaval is the most popular cheese in the Gulf region.



## CHEESE ROLLS

### NICE AND TASTY

- Smoked, semi-hard Kashkaval cheese with ham, or herb-kneaded cream cheese is rolled into a log shape, then packed into foil film and surrounded by bamboo sticks.
- It has a typical smoked cheese aroma with ham, or a deep herb flavour.

## GRILLCHEESE

### THE Milder TASTE OF HALLOUMI

- A semi-hard cheese that can be fried in a pan or on the grill.
- The taste is milder than other grill or Halloumi cheeses, but the surface of it remains solid when fried, and turns a light brown colour in a few minutes.



# KAPOS TERNERO LTD.

Fresh and frozen meat

## Our products and services

- Fresh and frozen red meat from calves, lambs, sheep and goats
- Sliced, deboned and packaged according to customer request
- Certified organic, kosher and halal meat

“Reliability and  
Permanency”

## Our value proposition

Kapos Ternero Ltd specializes in marketing of fresh and frozen veal, lamb and mutton meat, as well as vacuum packed raw, sliced, and cubed meat.

We offer the capacity to slaughter, debone, pack and process organic meat to customer specifications including halal slaughtering.

To ensure high-quality standards, we hand-deliver our products to inland clients and ship our fresh, chilled, premium quality meats by aircraft for arrival within 72 hours.

## Who we are

Kapos Ternero Ltd was established in 1992. Since 1997, we have owned our own slaughterhouse. We specialize in the marketing of fresh and frozen veal, lamb and mutton meat as well as vacuum-packed raw, sliced and cubed meat.

We have the capacity to slaughter, debone, pack and process organic meat to customer specifications including halal slaughtering.

## Our work

We currently export within the European Union, Japan and Switzerland.

Due to our commitment to quality in meat sourcing and processing, we deliver to the gastronomy/restaurant, catering and hospitality industries and count among our clients some of the most awarded restaurants.

We operate according the HACCP Quality Insurance System and IFS. Our slaughtering process is certified by the Hungarian Islamic Community.



[www.kaposternero.hu](http://www.kaposternero.hu)

## LAMB PRODUCTS

are delivered vacuum-packed and cut to our customer needs.



## FRESH RED MEAT FROM SHEEP

can be delivered cubed or sliced as requested.



## RED MEAT FROM CALVES

can be deboned or prepared in various cuts and delivered in vacuum packaging as chilled or frozen food within 72 hours globally.



# PILZE-NAGY LTD.

Fresh food and pastes

## Our products and services

- Fresh oyster mushrooms, black poplar mushrooms in different packaging.
- Organic fresh oyster mushrooms, organic black poplar mushrooms in different packaging.
- Canned products: VIA NATURALIS oyster mushroom pastes in different flavours.

**“ PILZE-NAGY LTD. is the oyster mushroom grower  
Growing good mushrooms starts here –  
PILZE-NAGY Ltd. ”**

## Our value proposition

Due to two decades of professional experience, and the prioritization of innovative, continuously ready-to-renew, environment-friendly development, Pilze-Nagy Ltd. is registered as a leading oyster mushroom growing and trading company in Hungary and Europe.

## Who we are

The Pilze-Nagy Ltd. has been working in the field of mushroom cultivation for 25 years. We produce substrate for oyster and poplar mushrooms, growing oyster and poplar mushrooms the distributing of fresh oyster mushrooms in wholesale and retail markets, and the generation of electric power and heat energy sourcing from biogas production. Pilze-Nagy Ltd.'s mushroom farming is in full compliance with the conditions and terms of organic mushroom production, being also officially certified by the Biokontroll Hungária Nonprofit Kft.

We have recently increased our focus on producing processed mushroom products, like oyster mushroom pastes and sliced and powdered dried mushrooms.

## Our work

Our customers are mainly wholesaling companies and supermarket chains. The most important market is Germany, but we sell significant quantities of mushrooms in the Austrian and French markets, while demands are increasing in neighbouring countries (Czech Republic, Slovakia, Romania and Poland) as well.

We offer our fresh products in all kinds of packaging including plastic trays (for supermarkets) and wooden boxes (catering). Freshness is one of our advantages. Our products are to our clients within 24 hours of harvesting, which is ensured by our own cooling truck fleet.



[www.pleurotus.hu](http://www.pleurotus.hu)

## MUSHROOM-BIOGAS COMPLEX AGRISYSTEM

In this complex mushroom growing agrisystem, biogas production and agricultural crop production work in close cooperation.

All organic wastes from mushroom production (spent mushroom substrate) are utilized in a biogas plant in order to decrease the environmental footprint of the production and serve the sustainable environment.



Generated energy (heat and electricity) can be returned to mushroom growing. The residue of biogas production is a valuable organic fertilizer, which can be applied to fields where the straw for mushroom substrate is grown.

It is a good example of circular economy. Main materials (straw) are cycled, renewable energy production is involved, while fresh mushrooms are part of the healthy human diet and finally, value generation happens in each production step.





# TOKAJ KERESKEDŐHÁZ ZRT.

Premium Wine

## Our products and services

### TOKAJI ASZÚ WINES

The taste of our aszú wines are as special as the process making them itself. The hand-picked bortyised berries are selected over a two-month period. At the end of harvest, they are added to the current vintage's base wine which has already been fermented or is fermenting at that point. The long maceration and fermentation takes place in stainless steel vats or barrels in our 5.5 km-long underground Szegi cellar. Here the wine is aged for at least 2.5 years but often longer. Aszú wines traditionally are aged in 136 to 350 litre barrels made of local oak. The elegance, richness, fruitiness of these wines have no equal. No wonder they carry the title of Wine of the Kings, King of the wines.

### TOKAJI SZAMORODNI WINES

The word "szamorodni" comes from the Polish language, meaning "as it grew". The term suggests that the healthy and shrivelled berries are processed together. The quality, the sweet or dry character of the wine, is determined by the proportion of shrivelled berries. It is aged in barrel for 2 years or more.

### GRAND SELECTION TOKAJI WINES

Selection of our premium wines produced in different categories: dry, semi-dry, sweet wines. Grapes are harvested from low-yielding vineyards. These wines reflect the unique character of the varied terroirs from all over the Tokaj Wine Region. Our prime sites are in the first class Szarvas, Kovágó and the highly-prized Szentvér vineyards.

### TOKAJI LATE HARVEST WINES

Part of Tokaj-hegyalja traditions is the making of Late Harvest wines. Thanks to the natural concentration of flavours, careful processing and state-of-the-art technology these wines preserve varietal character and complexity resulting in late harvest wines of the highest quality.

### TRADITIONAL TOKAJI WINES

Made from the traditional grapes of Tokaj picked fully ripe, matured in small Zemplén oak casks in rhyolitic tuff cellars. During the maturation process, these rich flavours integrate well and make a multi-layered, elegant wine with unique aromas.

“The Beginning of a New Era”

## Our value proposition

- we produce varietal Tokaji wines from dry to sweet from 1100 ha of vineyards
- we purchase high quality grapes from 1500 private growers living in the region
- our wines reflect the different terroirs of the Tokaj region



www.crownstates-tokaji.com

A multi-million euro investment project was launched at the company's Tolcsva site to build a temperature-controlled storage tank hall, a new bottling plant and the related infrastructure for the winery.



The wine-making area is revived under the management of **Károly Áts**, and as a result the company has the opportunity to enter new markets by producing higher quality wines. In 2006, the American "Wine and Spirit" magazine gave his 1999 essence 100 points and this year he was elected "Oenologist of the Year" at Tokaj-Hegyalja.



## Our work

The developments of recent years and the modern processing technology applied is worthy of the reputation of Tokaji wine and the Tokaj wine region, and is in line with our efforts to preserve the traditions of Tokaj-Hegyalja as well as ensure the outstanding quality of our wines.

## Who we are

Tokaj Kereskedőház Zrt. is a national winery owned by the Hungarian state. As the largest winery of the over 300-year old historical Tokaj Wine Region, which has been on UNESCO's World Heritage List since 2002, it has been the primary preserver and guardian of Hungarian wine making traditions. Tokaj Kereskedőház has more than 50 years of wine making experience, which made it a key player in the life of the Tokaj-Hegyalja area throughout this period.

# UNIVER PRODUCT PLC

Specialty food, jams and sauces

## Our products and services

Baby foods, ketchup, mustard, mayonnaise, aseptic tomato concentrates, jams, fruit juices and dressings

“Taste of Hungary,”

## Our value proposition

The Univer brand is synonymous with traditional, great tastes you can always trust. Fresh, local and healthy produce are at the heart of our philosophy. Our focus is to provide high-quality, preservative-free foods, with ingredients that are sourced locally.

We use the latest cutting-edge technology to ensure our products can be enjoyed without any artificial flavours, colours or preservatives.

Our brand new factory is equipped with the latest high-tech machinery.

## Who we are

Since 1948, Univer has been creating delicious condiments, dressings and scrumptious sauces, making us as a trusted family favourite.

We have personal relationships with all of our growers and visit their farms regularly, so we can ensure that the ingredients used are only of the highest quality.

## Our work

Our products are enjoyed across Europe, the US and Canada and we are planning to expand our distribution in the coming years. We hope more and more people from around the world will be able to enjoy and share the magical tastes of Univer products.

We produce according to the highest food safety standards in Europe and we have IFS and HACCP certifications.



www.univer.hu

## NATURAL BABY FOOD

Our wide variety of baby food products offers a tasty and healthy selection for four phases of a child's development. All products are free of allergens, gluten, lactose, milk protein and do not contain any preservatives.



## DRESSINGS

With reduced oil content, Omega 3 and Omega 6 fatty acids and fresh taste, our dressings are an indispensable addition to any salad. Our full-flavoured ketchup, mustard, mayonnaise are widely recognized as some of the most popular in Hungary and contain zero preservatives.



## SCRUMPTIOUS SAUCES

Whether it is the juiciest fruits, the plumpest peppers, sweetest tomatoes or the freshest eggs, Univer carefully selects only the best Hungarian raw materials. The most popular paprika products are Red Gold paprika cream and Eros Pista hot spice paprika on the Hungarian market. Made from excellent quality paprika, providing the flavour and colour of fresh peppers to consumers throughout the year.



## TOMATO CONCENTRATES

Univer tomato concentrates contain 100% fresh tomatoes from Hungarian growers. Our facility is Hungary's largest factory in this category. We offer aseptic tomato concentrates for industrial customers in barrel, for retail customers tomato juice, and canned tomato concentrates.



## JAMS

Produced exclusively from Hungarian fruits, our jams are packed with delicious flavour, natural vitamins and some of them contains no added sugar. Available in ten flavours.



# TECHNOKOV FORGING AND SHEET METAL PRESSING CO. LTD.

Sheet metal pressing

## Our products and services

Tank heads, caps, hand hole and manhole covers, cones, segments for spherical tanks and vehicle parts.

“ All tank heads from Technokov. ”

## Our value proposition

We manufacture a wide range of products from just one dealer. We also specialize in customization needs, fulfilling requests - from one piece manufacturing to mass production.

## Who we are

The predecessor of Technokov was purchased by the Hungarian state in 1870 and was subordinated to the state railways directory under the name of "Machine Works of Hungarian Royal Railways" (Magyar Királyi Államvasutak Gépgyára - MÁVAG).

Technokov Kovácsoló és Lemezsajtoló Kft. was established in 1991 from the sheet-metal pressing plant of the large industrial company that introduced the manufacturing of heads in Hungary.

## Our work

Technokov Kft. exports half of its products to Middle East and another half to the Hungarian and European markets.

We have several certifications including EN 10204:2005-2.2, EN 10204:2005-2.3, EN 10204:2005-3.1, EN 10204:2005-3.2, EN 10204:2005-3.1+AD2000, EN 10204/2005-3.2 + AD2000, EN 10204:2005-3.1 + PED, EN 10204:2005-3.2 PED

## BEGINNING OF A NEW DIMENSION

Two years ago a railway tank manufacturer from the Czech Republic asked us whether we could manufacture new tank heads for them with bigger diameter than average.

When we received the technical drawings we realised that our current tools did not have the capacity to make this new 3040 mm product. In order to best serve our client, we invested in a new tool costing 100k euro.

We have now furnished 40 of these new tank heads and our customers are happy. Technokov goes above and beyond to meet the call of duty.



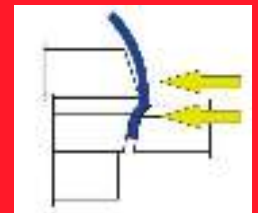
## NEW POSSIBILITIES WITH OUR NEW JOGGING MACHINE

Our new jogging machine can fulfil individual requests for customization allowing the measurement of the tank head perimeter at two points (e.g. jogging, above the jogging).

The measurement result is visualized on a digital display and stored in a short-term archive.

### Features of the unit:

- High-precision laser sensor (Keyence)
- Servo axis for positioning of the sensor
- Angle sensor to work spindle
- Protective case for measuring unit
- Digital display for displaying the measurement results





# QUALIFORM ZRT.

Aluminium gravity casting

## Our products and services

Tool manufacturing, aluminium gravity casting

“Award-Winning Quality!”

## Our value proposition

We are dedicated to providing the highest quality aluminium die casting for the automotive, construction and engineering industries.

We are committed to using the best environmental practices for the earth and for our staff.

## Who we are

Qualiform Zrt. was established in 2007 as the successor of BT Holding Qualiform Kft. (1995-2007). Qualiform specializes in complicated, labour-intensive automotive castings with sand cores. Our expertise comes from our many years of experience as an aluminium mould and tool producer.

Our outstanding work has won us accolades like the MOSZ prize, MAN and others. We aim to be the best aluminium die casting manufacturer in the world.

## Our work

Our products are primarily used within the automotive industry and are also used in engineering and construction. Ninety percent of our production takes place in European Union partner countries. We control 10 percent of the domestic market.

Our business partners come from Europe and South America and our customers include BMW Austria, man (Germany, Brazil), Rosenbauer International, Aventics Hungary and others.

We are ISO Certified 16949:2009, ISO 9001,



<http://www.qualiform.hu>

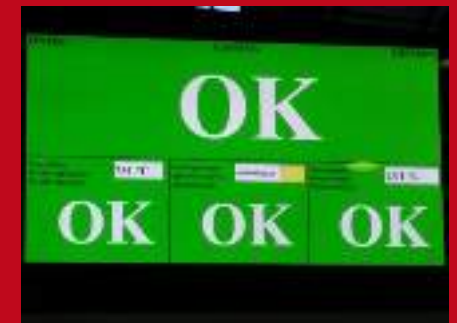
## PRESSURE DROP TEST

Qualiform has replaced old leakage test methods with modern pressure drop testers. This has allowed us to develop high-quality stands and fixtures. We use innovative and fast technology for testing. Our test results are impressive.



## CASTING PRODUCTION MEASURING EQUIPMENT FOR CONTROL

We have developed a measuring system able to show and store all necessary data for quality assurance in casting (metal temperature, density index, spectral analysis). We currently manufacture aluminium die castings in the range of 0.3-0.5 kg/pc up to 10-15 kg/pc. We are able to produce parts from all types of alloys.



# SZABADALAKÍTÓ KOVÁCSÜZEM CO. LTD.

Metal works and forging

## Our products and services

Our products are round steel bars, flat bars, shafts, camshafts, disks, punched disks, forged flanges, sleeves, rings, crane hooks.

“Masters of freehand forging since 1920”

## Our value proposition

We manufacture a wide range of products and can fulfil individual requests, all from one supplier! We deal with everything - from the manufacturing of one piece to the mass production of thousands.

We are the only forging company in Hungary with NORSOK certification.

## Who we are

Szabadalakító Kovácsüzem Ltd. was formed in 1999, as an individual company. The predecessor of our company was the freehand forging sector of the giant GANZ-MÁVAG Ltd., which was formed more than 100 years ago.

It is 100% Hungarian owned and is operating profitably with 60 dedicated employees.

## Our work

The company produces 1-1800 kg freehand forged pieces and 20-80 kg closed die forged pieces. We produce unique forgings and many thousand different kind of products.

Our quality assurance system and production also complies with the European PED 97/23/EC directives. [Cert No: 01 202 H/Q-04 0001].

The required mechanical and chemical analysis of our products is carried out either in our own laboratory or other approved ones.

All our activities is in accordance with the ISO-9001:2008 standard certified by TÜV Rheinland. [Cert No: 75 100 9.651].

**SZABADALAKÍTÓ**  
  
k o v á c s ü z e m k f t.

www.szak.eu

## NON-DESTRUCTIVE AND DESTRUCTIVE EXAMINATIONS

Our products stand strong and meet quality assurance and production directives in compliance with the EU and we examine all our products according to the following tests:

### Non-destructive examinations:

- Ultrasonic test according EN10228-3; -4; and SEP 1921.
- Hardness test until 40 kg until HBW 10/3000
- Hardness test above 40 kg with POLDI method
- Lichid penetrant examination or magnetic particle examination on pre machined or finish-machined products



### Destructive examinations:

- Tensile tests according to EN 10002-1; 5
- Notch toughness tests according to EN 10045-1 (until -60 °C)
- Metallographic examinations



## NORSOK STANDARD

Our company is the only forging company in Hungary with NORSOK certification.

In order to deliver valve parts for oil rigs in the northern sea, one customer asked us to acquire NORSOK certification.



Unique in Europe as well in Hungary, we worked hard to gain NORSOK certification so we could best serve our clients. After two years of strict audits, renewal of our measurement system and updates in data recording, we did what needed to be done, in order to secure the certificate.

# IBV HUNGÁRIA LTD.

Lighting products and plastic processing

## Our products and services

- Dust- and waterproof industrial LED luminaires with higher IP-rates
- Processing of glass fibre reinforced polyester compound (GRP, SMC) for electrical, construction and sanitary industry.
- PT FirstOne, our latest patent, is a high performance fireproof construction material that meets the strictest standards of public transportation.

“ **Hungarian professional expert know-how used in combination with German technology** ”

## Unique value proposition

Feedback from our partners on countless occasions confirms the outstanding price performance ratio of our products we are able to offer thanks to two major factors: Hungarian professional expert know-how used in combination with German technology.

Numerous European companies have transferred the production of their plastic products to us. We have assumed our partners' production successfully whether it be GRP (glass fibre reinforced polyester) or thermoplastics processing. Nothing expresses the trust of our partners placed in us better than the fact that such projects resulting from production transfers accounts for 30 % of our revenue.

## Who we are

For over 20 years, IBV HUNGÁRIA Ltd, has been recognized on the market as a leading producer of dust- and waterproof industrial luminaires with higher IP-rates for fluorescent tubes or those equipped with LEDs.

In addition, we manufacture GRP-based (glass fibre reinforced polyester) products (kitchen sinks, electric cabinets and telecommunication equipment) designed in cooperation with our partners.

## Our work

More than 95 % of our production volume is sold on international markets in more than 40 countries of 5 continents.

Our clients include Cooper-Crouse-Hinds, Emerson-EGS-ATX, Jean Müller, Legrand, Osram, Pracht Lichttechnik, R. Stahl Schaltgeräte GmbH, Schuch, Siemens TS, Siteco, Striebel & John (ABB), Wirefield lightning, 3M Quante.

The quality level of our products meets the requirements of European standards (ENEC) and the highest expectations of our customers.

Our company meets the standards of the ISO 9001 quality management and the ISO 14001 environment management system.



www.ibv.hu

## INDUSTRIAL DUST- AND WATERPROOF LUMINAIRES

In today's market of luminaires, a producer's success is determined by the quality of its products and whether they work safely and reliably.

In the light of this, our production is driven by the principle of manufacturing good quality products, which is ensured by careful scrutiny and continuous improvement of our processes from purchasing of components to delivering our products.

Our luminaires are equipped exclusively with good quality components and each single piece is tested using a 100 % electricity test. Continuous improvement of our laboratory enables us to run tests on our luminaires, ensuring that we are able to meet the requirements of relevant standards as well as the expectations of our customers.

We are keen on gaining more experience through special tests which we may further utilize in our new product-development projects.

- Excellent cost/performance ratio
- Full range of dust and waterproof fixtures and battens (IP65, IP66, IP67) containing luminaires with excessive chemical, hit and temperature resistance and high-endurance, tolerating even extreme temperatures between -30 °C and +60 °C
- Quality components and electricity test
- Unique opal diffuser for LED module applications
- State-of-the-art LED luminaires with market-driven product design
- Mould shop with facilities for maintaining and repairing moulds
- High-quality compliance with EU standards
- ENEC Certification
- Reliability and flexibility





# NANOBASE LTD.

Nanotechnology aided surface coating

## Our products and services

Nanotechnology as versatile self-cleaning and anti-microbial surface coating

“The new generation of Surface Technology”

## Our value proposition

Nanobase coated surfaces are self-cleaning and anti-bacterial as well as safety certified and environmentally friendly. Our unique product lines offer everything from nanobase treatment for vehicle exteriors to solar coatings, air-cleaning products, hygiene products, primers, cleaners, and industrial lines for virtually any type of surface. We continually invest in innovation, combining various materials to develop new, unique, state of the art, products for the expansion of our product range.

We are the only company in Hungary with a tested antimicrobial coating and an ISO certification.

## Who we are

Nanobase was founded in 2012 as an innovative micro-enterprise. Since that time, we have expanded our product lines to offer a more complex service palette to our customers. The company were originally created to purchase anti-microbial surface coating which protects surface areas against microbiological contamination. Our products were tested by Bioservice – Scientific Laboratories, Quality Labs and Leibniz University, Hannover

## Our work

We develop nanotechnology coatings for an increasing range of applications.



[www.nanobase.hu/en/](http://www.nanobase.hu/en/)

## HYGIENE ON THE HIGHEST LEVEL NB2236

NB 2236 anti-microbial surface coating protects surface areas against microbiological contamination.

Through active ingredients in its coating, this product uses the principles of photocatalysis to block viruses, bacteria and other germs from spreading and multiplying. Crystalline silver ions make the surface coating reactive with even the lowest levels of light. Endotoxins are not formed during the decomposition of pathogens and bacteria.

This anti-microbial product can be used in a variety of settings requiring hygiene including: hospitals, clinics, food processing plants, nursing homes, pharmaceutical factories and with clothing, medical equipment and other devices.

Our product has been tested by several international and independent laboratories including the Hungarian National Centre for Epidemiology.



## SELF-CLEANING HIGH-EFFICIENCY SOLAR PANELS NB2210

NB2210 solar coating products are based on a uniquely developed, photo catalysis principle. The coating creates a super-hydrophilic surface. The coating naturally decomposes and removes organic pollutants which dissolve in the rain.

The coating reaches full potency after curing, and lasts for five years. The scratch-resistant surface only needs sunlight and rainfall to keep the surface clean – no expensive chemicals or detergents are needed. Self-cleaning increases the light permeability of the glass, increasing solar cell efficiency by up to 3%.

The coating also provides a 7H (Mohsen) hardness to the surface. With increased scratch-resistance, the life cycle of the solar cell is prolonged.



# HUNGARO LUX LIGHT LTD.

Lighting products

## Our products and services

Complex LED-based industrial lighting solutions

“LEaD the Future

## Our value proposition

We excel in developing and providing project-based, unique solutions for street lighting products and systems.

## Who we are

Hungaro Lux is a Budapest-based company, established in 1996. We develop and produce high-end LED lighting products for in- and outdoor applications. As a consortium member of the EU, the EU funded our PearlLight street lighting family which became popular in Germany. The company exports to Slovakia, Ukraine and Egypt and has distributors in the USA and South-Africa. It cooperates with universities in R&D projects.

## Our work

We produced the first intelligent and interactive system, which manages street lighting systems of entire towns. We have also provided nine filling stations of the MOL chain with special-design lighting products.



<http://www.hungarolux.hu/>

## STREET LIGHTING IN HAJDÚBÖSZÖRMÉNY, HUNGARY

INNOVATION AND PARTNERSHIP ALLOW FOR A 50% DECREASE IN ENERGY USE

**Hajdúböszörmény, Hungary - Hungaro Lux Light Kft and Elios Zrt. have partnered to provide an innovative lighting solution allowing the city to decrease its energy use by 50%.**

Starting with street lighting, the partnership worked to systematically revised each system to perform with greater efficiency.

By enabling interactive dimming and lighting communication and using intelligent LED lighting fixtures, this smart technology partnership has had great results.

- We reduced power use by 50%
- Reduced carbon-dioxide emissions by 102 tons
- Improved lighting comfort (luminance, colour rendering)
- Can predict errors and send warnings before failure becomes a reality
- Thanks to forecasting, field visits are minimised, allowing for better services levels and reduced cost.



## ENERGY COST REDUCTION MOL PETROL STATION

**Hungary – At the 68 MOL petrol station, Hungaro Lux was appointed with the task of reducing energy costs through better lighting.**

Retaining the older lamp bodies, while replacing their parts, resulted not only in an energy savings of 65-70% of energy costs but reduced maintenance and had a return on investment of less than four year.

We started by replacing traditional light fittings with LED illumination in the station outside garnering a 70% reduction in energy consumption, making for a quick return on investment.



The other, more spectacular task was to replace the shop lighting. The original lamps had to be changed regularly, so new LED lighting devices, developed especially for MOL, were created and fitted.

# RIMÓCZI AND PARTNER LTD

Filtration products and solutions

## Our products and services

- Solutions for automotive, pharmaceutical, chemical, paint and coating, food and beverage and water treatment industry
- Industrial air, liquid and dust filtration products such as bags, panels, felts, bands, mats, cartridges, units, candles, housings, membranes, belts and clothes.
- Engineering and Technical Services
- Facility Management

**“ Professional expert in industrial filtration for over 20 years**

## Our value proposition

Our uniqueness relies on premium quality in our products and services, precision, quick delivery, competitive pricing and extensive coverage of standard and customized filtration products.

Our aim is to offer complete filtration solutions to our associates and to provide professional maintenance and logistical services for client requests.

Our purpose is to assess the substantial demands of potential consumers and translate demands into solutions that fully fulfil clientele expectations.

## Who we are

Our company has been offering high quality products and comprehensive professional filtration management services for over 20 years.

We serve a wide range of industries such as pharmaceutical, chemical, automotive, food and beverage, water treatment and oil.

## Our work

Located in Hungary, we export our goods to several EU countries within the above-mentioned industries.

Our customers include such industry giants as Audi, Opel, Mercedes-Benz, Denso, Hankook Tire, Bridgestone, Ford, BorsodChem, Henkel, MOL, BOSCH, Sanofi, EFIS, Richter Gedeon and Nestle.

We are certified ISO 9001.

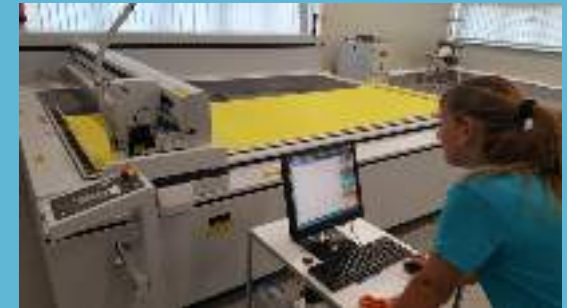
[www.rimoczifilters.com](http://www.rimoczifilters.com)



## THE VERY BEST

We serve some of the biggest names in every industry. From Nestle in the food sector to Audi and Mercedes-Benz in the automotive sector, to Richter Gedeon and Borsod Chem Zrt.

In the Pharmaceutical and Chemical industries, we serve the very best.



## Our products include:

- Air Filtration: Z-Filters, Bag Filters, Sterile Filters, HEPA Filters, Filter Mats
- Dust Filtration: Felt Bags, Glass Bags, Fluid-bed Dryer Filters, Cartridge Filters, Ex-protect Filters
- Liquid Filtration: Filtering Felts, Exchangeable Insert Filters, Activated Carbon Filters, Liquid Bags, Chamber Filter Presses, Centrifuge Filter Bags, Filter Bands, Emulsion Filtration



## PROFESSIONAL EXPERTS FOR OVER 20 YEARS

We offer high quality filtration products and comprehensive filtration management for a wide range of industries.

## Our Services:

- Engineering and Technical Services
- Filter Management
- Industrial Maintenance
- Facility Management





# VARGA-FLEXO LTD.

Printing presses

## Our products and services

- Flexographic printing presses
- Laminators
- Slitters
- Mounter-proofers
- Adhesive dosers

**“ High quality prints, reliable operation and easy handling at favourable price.”**

## Our value proposition

Our company was founded with the vision of launching new flexographic printing presses, laminators, slitters and mounter-proofers on the international market from a Hungarian producer.

Our great reputation, happy customers and strong relationships ensure our company's competitive position in the printing market.

Varga-Flexo Ltd. combines high quality, short changeover time, cost effective operations, quick ROI and machine operator-friendly design. Our integrity is unbeatable - all of our machines have been operating reliably since 1993.

Varga-Flexo offers training for operators, consulting, machine maintenance, spare parts ordering and a 24hour service hotline for its clients. It also offers online remote monitoring systems with free Skype services for immediate support and customer needs.

## Who we are

Varga-Flexo Ltd. hosts three generations of the Varga family, originally founded by flexographic printing expert, Endre Varga in 1993. Its headquarters and the service centre are located in Budapest with a production factory in Lengyeltóti.

## Our work

We currently serve Central and Eastern Europe, Russia, the USA and Argentina.

Our factory is ISO and all products are CE certified.



[www.vargaflexo.eu](http://www.vargaflexo.eu)

## FLEXOGRAPHIC PRINTING PRESS

**The latest technology:** Compact 8-colour machines with central impression cylinder.

New developments:

- Flying splice
- Automatic ink supply, control and washing system
- Printing Artificial casings and tubes in 8+8 colour
- Higher speed availability: 450 m/min
- Larger, stronger and thicker machine frame: 100 mm
- Larger central impression cylinder: 1,800 mm
- Longer printing length: 300-900 mm
- Larger printing width: 500-1200 mm
- Enhanced printing decks



## LAMINATOR-SLITTER – REWINDER

**Two complete machines with one investment**

- Side-change sleeve system
- In-built air-cylinder
- Detached servo-motors
- Coloured screen interface
- Adhesive dosing unit
- Automatic winding system
- 400 m/min slitting speed
- 200 m/min laminating speed
- 500-1500 mm laminating width



# GEBAUER PHARMA LTD.

Natural family planning

## Our products and services

Non-invasive reusable ovulation self-testing

“Natural, reliable fertility self-testing  
in the privacy of your home.”

## Our value proposition

With a global focus on health and increasing interest in natural approaches and the body's own wisdom, natural family planning and contraception methods have been gaining attention. Combined with the desire for independence and privacy, **OvuPred** provides a timely solution to modern-day needs.

We believe that natural family planning methods should be available to anyone who – irrespectively of any reason – is interested to learn and/or use them.

## We offer methods and solutions which are:

- Natural and chemical-free
- Non invasive
- Private
- Easy to use
- Affordable and accessible by all society
- Available over the counter
- Reusable and environment friendly

## Who we are

Gebauer Pharma Co. Ltd., a member of the Gebauer Pharma Group of Companies, based in Budapest, Hungary.

Our family-owned business has been in operation for more than 25 years, developing innovative solutions for natural family planning, specializing in home-care in vitro diagnostic devices.

Our manufacturing unit is ISO 13485 and 9001 certified.

## Our work

All our products are CE certified for the European Union and registered in many African and Asian countries.

We serve customers through pharmacies, distributors and importers in Europe, Asia, Africa and the Middle East.

## SELF-TESTING DEVICE FOR NATURAL FAMILY PLANNING

Women from around the world, show a growing preference for natural non-invasive family planning methods.

Our product, **OvuPred** Ovulation Microscope, brings women from different cultural and religious traditions, the freedom to monitor their menstrual cycle - pinpointing her fertile days in the privacy of her own home. Ovupred is reliable, REUSABLE, pocket-size, simple-to-use, avoiding chemicals or the negative side effects of invasive testing.



**OvuPred** is affordable and can perform an unlimited number of tests. She only needs to buy it once. The test is convenient and based on a drop of natural saliva.

**OvuPred** is especially ideal for women with irregular cycles, women over 30 years of age or women who have used hormonal contraception methods for many years.

**OvuPred** is a useful education tool within families and helps girls and women of any age learn how their body works.



FERTILE



INFERTILE



**Gebauer<sup>+</sup>**  
Pharma

www.ovupred.com

# EMD ENDOSCOPE DEVICE MANUFACTURING AND SALES LTD.

## Endoscopic and surgical devices

### Our products and services

Systems, instruments, equipment, accessories and components for:

- **Laparoscopy** (e.g. Trocar Systems and Telescopes)
- **Endo-Urology** (e.g. Cysto-urethrosopes, Percutan Nephrosopes, Resectoscopes, Uretero-renoscopes or Urethrotomes)
- **Arthroscopy** (e.g. Telescopes or Trocar Systems)
- **Hysteroscopy** (e.g. Hystero-Resectoscopes, Hysteroscope Sheaths)
- **Neurosurgery** (e.g. Aneurysm clips, Highspeed Motordrill Systems, Neuro-Endoscopy or Stereotactic System)
- **ENT** (e.g. Laryngoscopes, Otoscopes, Sinuscopes)
- **Open Surgery** (e.g. Bipolar Instruments and Cables, Drills and Reamers, Monopolar Instruments and Cables, Retractor Sets, Saw Blades)

“**ALL IN ONE HAND – From the designer’s bench  
to after-sales services.**”

### Our value proposition

We meet the needs and aspirations of the most sophisticated customers with innovative, high quality, user friendly endoscopic product solutions.

### Who we are

Founded in 1997, our company grew from our expertise servicing the medical equipment of 5 major European hospitals. Through this work we identified the lack of high-quality medical instrumentation in the industry and grew to produce world class innovative medical instruments.

Our highly-skilled engineers work closely with end-users and research institutions, using a state-of-the-art CAD software aided design process to continuously innovate and expand our product line.

Our production unit works with world-class technology to turn innovations into leading patented technical solutions such as our laparoscopy and neurosurgery products. Stringent QAS controls the complete production process at all the levels and delivers products that comply even with the most restrictive medical device regulations.

### Our work

Our company complies with ISO 13485:2012 and the 93/42/EEC Quality Assurance System certification for medical devices.

Our products are fully CE certified. We are headquartered in Hungary, serving clients within the European Union with an aim to expand globally.

[www.emd.hu](http://www.emd.hu)



## LAPAROSCOPIC INSTRUMENTS

**Ergonomic design, special jaw-opening mechanism, unique ratchet-release in the handle.**

Endoline II series laparoscopic instruments are designed to be highly precise, reliable and easy to use, thanks to innovative technical solutions and world-class technology at production, which allow us to provide unique features like extended insulation through the outer shaft and one-finger operated locking mechanism in the handle.

Endoline II instruments are 360° rotatable and constructed from three fully detachable components. A wide range of jaw types make our instruments available to many professionals in laparoscopic surgery (e.g. surgery, urology, gynecology).



## NEUROLINE SINGLE USE CRANIAL PERFORATOR

**When safety is more than a need – NeuroLine perforators combine maximum safety with extremely high performance.**

Cranial perforators are available in three models both for pediatric (for use on skulls as thin as 1.5-3.0mm) and for adult (for use on skulls as thin as 3.0mm or more).

### Main advantages:

- Integrated safety release mechanism
- Bone pad for extra protection of dura
- Ideal geometry for cutting efficiency
- Extremely high performance
- Controlled drill tip
- Restart at any time



## EMD ENDOLINE TROCARS

**The world's shortest trocar body with manual valve opening.**

The wide range of the reusable EMD trocar systems are designed for laparoscopic application (surgery, gynaecology, urology).

Producing an innovative trocar system is not only about manufacturing a durable stainless trocar with fast and easy assembly and economic spare parts. By combining our ideas with our experiences we have created a true port between the patient and the surgeon.

By using EMD EndoLine trocars, physicians can now focus on the operating field without the distraction of complicated accessories. The shortened trocar body design provides longer useful working length for the applied laparoscopic instruments. The conical shape of the internal inserting surface which introduces hand instruments, brings new ease to the operating table.





# SOS CENTER LTD.

Emergency response homecare

## Our products and services

SeniGuard Personal Panic Button with 24/7 Emergency Dispatch Operating Center

“ **SOS Center – For all your loved ones** ”

## Our value proposition

This device offers a full range of functionalities and advantages to ensure safety including:

- An easy-to-use SOS panic button
- Fall-detection
- Two-way voice, SMS and data communication with listen-in functions
- GPS-based positioning and Geo-Fence function
- 4-day battery life with discharge warning
- Over-the-air programming and management interface for tracking
- Smooth aesthetic design, excellent sound quality

The 24/7 Emergency Dispatch Operating Center offers fast, effective emergency support through:

- Carefully programmed protocols and tested emergency procedures that manage all aspects of the response
- Pre-stored user data (e.g. location, health status, medications, drug sensitivities, allergies, blood type, location of spare-key) as well as emergency contacts (e.g. ambulances, relatives, civil defence or police stations) are displayed to and shared by dispatchers
- Secure operating software continuously monitors processes, logging events and data. Secure data systems prevent data loss during blackout and power failures and protect against malicious intrusion.

## Who we are

SOS Center Ltd. was founded to provide a quick and effective response solution for personal emergency situations through integrating 21st-century technology with highly-skilled technical and medical responders.

Our service was initially developed for elderly people but has since then developed into an application for a wide range of end-users at risk such as children, people with disabilities and many other risk groups.

The CEO is an economist with 15 years of experience in company management and business consulting. The founder has 10 years of experience in sales, direct sales and call-center operation activities. The leader of the dispatch center is a doctor with 30 years of medical and forensic-medical expertise. The dispatchers are all professional medical personnel with 10-30 years of experience.

## Our work

The SOS Center Ltd. operates an advanced, modern system for fast and efficient assistance in crisis situations. We comply with national and EU legal requirements and standards.

Currently we serve customers in the European Union but the system can be easily adapted to individual customers and other legal and standard requirements.



SOS CENTER

[www.soskozpont.hu](http://www.soskozpont.hu)

## ELDERLY-CARE

The SOS Center's SeniGuard Personal Panic Button provides a one-button safety solution for elderly, disabled, sick or injured people who live alone and at risk.

When the fall-sensor is activated or the panic button is pushed, this device communicates via GPRS and has GPS transmitter allowing around the clock dispatchers to respond to the emergency. Highly experienced medical staff, specially trained in resource and emergency management, provide an appropriate and effective response to emergency calls.



## CHILD-CARE

Street traffic, public transport, disorientation or even kidnapping, place children between 6 and 15 years of age at high risk, especially when walking to and from school on their own.

With the SeniGuard Personal Panic Button, a child's journey can be entirely tracked for safety. A Geo-Fence function alerts parents automatically when their child leaves a pre-determined Safe Zone. Using this device, parents can contact their children at any time. SeniGuard answers the incoming call automatically.



# HAND-IN-SCAN

Hospital hygiene

## Our products & services

Hand hygiene control device, hand hygiene training services, audit, monitoring

“The visible improvement in hand hygiene.”

## Our value proposition

Hand-in-Scan effectively and efficiently supports hygienic standards:

- Real-time UV-light feedback on hand hygiene, creating a safer environment
- Proven success: Analysis software trained on a dataset of 15,000+ hand images of healthcare workers.
- Can be integrated into any Hospital Information System (HIS)
- Can be used as a part of the Patient Safety Audit.
- CE certified electronic (non-medical) device.

## Who we are

HandInScan was established in 2012 as a spin-off of the Budapest University of Technology and Economics (BME). The founders were students within the engineering development team, intending to reduce the spread of disease, infection and ultimately, preventable death of vulnerable populations in medical facilities.

Their innovation and transfer of technology, created a device that objectively controls hand hygiene performance of medical staff, receiving numerous international awards.

After finding success in early prototypes of the Hand-in-Scan device, the application domains were significantly extended from medical uses to include clean manufacturing sites, the food industry and high-end tourism.

The founders' core team skill set included biomedical engineering, infection prevention and control, electrical engineering, computer science, finance, marketing and project management.

The company exclusively licensed the relevant patent from BME.

## Our work

Hand-in-Scan serial production began in early 2015 and has been available on the market since May 2015. It will be offered globally to any customer in healthcare & food industry. We are looking for distributors globally.



www.handinscan.com

## THE IMPACT OF DIRECT, PERSONAL FEEDBACK ON HAND HYGIENE TECHNIQUE

A 2015 study in the *Journal of Hospital Infection* showed that Hand-in-Scan is an effective new training device that provides objective, personal and quantitative hand-hygiene feedback.

**Method:** 136 healthcare workers in 3 hospitals participated in a hand-hygiene assessment. After cleaning their hands with alcohol, Hand-in-Scan was used to provide digital images of participants' hands under an ultraviolet (UV) light. Immediate objective visual feedback was given to participants, showing unclear areas they missed on their hands.

**Results:** Using Hand-in-Scan, the rate of hygienic hand washing grew from 50% to 85%.

**Conclusion:** Hand-in-Scan improves hand hygiene. The presence of Hand-in-Scan monitoring devices in hospital wards will reduce transmission of dangerous infections and disease to an already vulnerable population.



## A LARGE-SCALE ASSESSMENT OF HAND HYGIENE QUALITY

PUBLISHED IN BIOMED CENTRAL INFECTIOUS DISEASES IN MAY 2013

The efficacy of hand hygiene is not typically monitored though it is a critical step in protecting patient populations in the spread of illness, infection and disease. A 2013 study in *BIOMED Central Infectious Diseases*, analyzed patterns and trends in missed areas after the use of WHO's 6-Step hand-cleaning technique.

**Method:** A hand hygiene education and assessment program targeted 5,200 clinical staff at the National University Hospital of Singapore. Participants were guided by professional trainers through educational stations, which included technique-training and use of UV-light assessment after attempted hand-cleaning, supported by the digital photography of participants' hands.

**Results:** Only 72 % of staff achieved hygienic coverage despite the assessment taking place immediately after training.

**Conclusion:** Ongoing education and training plays a vital role in improving hand hygiene compliance and technique of clinical staff. Hand-in-Scan can provide immediate feedback at typical sites of failure to improve health and safety in medical facilities where it counts most.



# MEDICOR ELEKTRONIKA CO. LTD.

Medical equipment and devices for neonates

## Our products and services

- Neonatal incubator
- Neonatal warming and resuscitation table

“ **Authenticated European Manufacturer of Medical Equipment and Devices for Neonates since 1963.** ”

## Our value proposition

When the health of a new-born child is in danger, no risk should be taken. Price, quality, short delivery term – the client should not be forced to choose. MEDICOR can provide them all.

With more than 50 years of experience in the field of medical equipment manufacturing, the MEDICOR BabyLife family offers comprehensive solutions for the treatment of neonates. Competitive pricing, authentic European production, a service background and 24/7 support, are just a sample what the MEDICOR offers.

## Who we are

With five decades of experience in neonatal care, we offer the latest cutting-edge technology in the field of neonatal care for ICU/NICU hospital departments all over the world.

MEDICOR develops their products through its own R&D center in cooperation with leading Hungarian universities, taking advantage of a long history of Hungarian innovation.

MEDICOR ensures professional marketing, sales and a service background to its partners.

## Our work

We supply our neonatal care products to more than 100 countries all over the world. Our products have been a part of the LTA of UN organizations and UNICEF/WHO since 2009.

Our equipment and devices are CE approved and MEDICOR is ISO certified.



www.medicor.eu

## BABYLIFE® BLF-2001 TYPE INFANT INCUBATOR

Infant incubators provide a safe and stable environment for new-born infants, often those who were born prematurely or with an illness rendering them vulnerable during their first several months of life.

During this vulnerable time, safety is key. Our infant incubator ensures a stable environment utilizing micro-computer control, multi-level protection and silent operation as well as temperature, humidity and oxygen servo control.

**MEDICOR** offers more than 30 options to suit hospital needs.



## BABYLIFE® BLR-2100 TYPE WARMING AND RESUSCITATION TABLE

New-born babies must achieve thermoregulation in order to survive hypothermia. Radiant warmers are heating devices used for this purpose.

Our Warming and Resuscitation Table, enables a warm environment through a ceramic heater controlled by a micro-processor. The anti-decubitus and gel mattress provides extreme comfort to the infant. The temperature regulated by BABYLIFE® BLR-2100 through thermo-radiation is adjustable within a wide range, while the radiator with its physiologically-optimal wavelength prevents the new-born child from chill.

**MEDICOR** offers more than 20 options to suit hospital needs.



# MEDICOR HAND INSTRUMENT CO.

Surgical and dental equipment

## Our products and services

Our product catalogue offers a full range of surgical and dental instruments for human and veterinary hospitals and clinics from one reputable supplier.

**“Tangible Quality,,**

## Our value proposition

Medicor Hand Instruments Co. manufactures 10,000 top-end surgical and dental instruments supporting all fields of human and veterinary medicine.

Our excellence and reliability has been acknowledged through decades-long relationships with our American and Western European partners.

Our instruments are made only from the highest-quality German base materials for medical use and are manufactured under the most stringent quality and process controls.

We offer 10-year guarantees for all of our products as well as free repairs or replacement in the event of a defect.

## Who we are

Since 1952, Medicor Hand Instrument Co. has become one of the world's most reputable manufacturers and distributors of medical instruments.

Our dedicated team of innovation-oriented staff are the key to our success, helping us achieve the top-end quality required for the most demanding US and German markets.

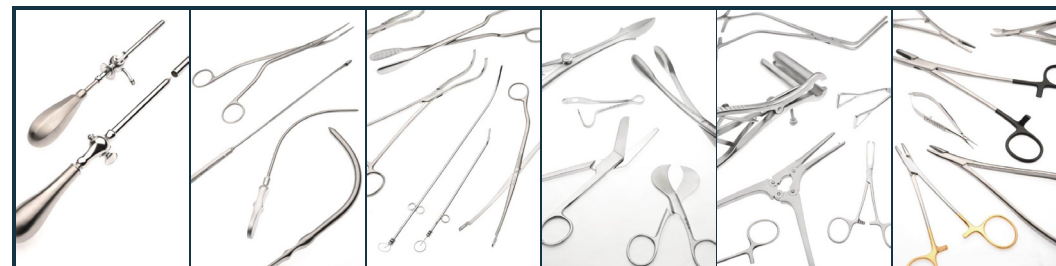
## Our work

Our products are sold globally in the US, Europe, Japan, Russia and other countries and 93% of our sales revenues are realized from export with a market share of 50% in domestic markets.

Our product excellence has been acknowledged through numerous domestic and international awards for high standards including the National Quality Award in 2000 the European Quality Award in 2003.

Our products are certified under EN ISO 9001:2008, EN ISO 13485:2003 + AC:2009, FDA (USA): 9680519 and under the European CE directive: MDD 93/42 EEC 06.14.1993

[www.medicorkm.hu](http://www.medicorkm.hu)



## OUR PRODUCTS

Knives, scalpels / Scissors / Pincers / Tissue and tampon forceps / Artery forceps / Probes / Needle forceps / Surgical hooks, spatulas, opening forceps Trocar instruments / Diagnostic instruments Gynecology instruments / Tracheotomy instruments / Organ forceps / Gal stone forceps / Neurosurgery instruments / Thoracotomy instruments / Kidney forceps / Atraumatic cardiovascular instruments / Traumatological and orthopaedic instruments / Bone instruments / Post mortem instruments / Instrument trays / Ear and laryngology instruments / Eye instruments / Microsurgical instruments / Dental, dental technician and dental surgical instruments / Dental instruments for equine veterinaries

## GERMAN MATERIALS WARRANTY BEST QUALITY

**Our instruments are produced from the highest quality German base materials and manufactured with moulded compounds, shapes, hardness, flexibility and corrosion-protecting properties to meet the strictest market and user requirements.**

Our multi-phase integrated manufacturing processes are designed to guarantee the excellent quality of our final products. Every piece is subjected to chemical passivation to enhance resistance to corrosion. Our products are tested according to the highest standard.

Our final products include customized finishes and can be individually etched to include serial numbers or hospital names upon request.





# MEDITECH LTD.

Cardiovascular monitoring units

## Our products and services

- Ambulatory blood pressure monitors and pulse oximeters
- ECG event recorder
- Holter ECG monitors
- Multifunctional monitors
- Analysis softwares

**“Take action against hypertension!”**

## Our value proposition

We offer 24-hour ambulatory blood pressure monitors for medical device distributors and their clients.

Hypertension affects 1 in 3 adults worldwide. Vigilant monitoring is key:

- Record blood pressure data for 24-hours post medical visit for more accurate blood pressure profiles.
- Have reliable information about blood pressure changes, overnight dipping and morning surges to lower the chance of misdiagnosis and enable better drug treatment.
- Earn profit through reimbursement.

## Who we are

Meditech has over 25 years of experience in manufacturing ambulatory blood pressure monitors and software applications tracking recorded data.

Meditech ambulatory blood pressure monitors are used successfully by physicians and specialists, in hospitals and in international research programs as well.

## Our work

Meditech customers include medical device distributors, OEM partners, pharmaceutical companies and medical professionals worldwide. Argentina, Brazil, China, Germany, Hungary, Russia and the United Kingdom currently represent our most significant markets.

The company is ISO-certified, its monitors have CE mark and FDA market clearance.



[www.meditech.eu](http://www.meditech.eu)

## SEASONAL VARIATIONS IN NIGHT-TIME BLOOD PRESSURE CHANGES

**Hypertension, or high blood pressure, is a dangerous condition leading to the hardening of the arteries, stroke, kidney disease, and the development of heart failure. Monitoring blood pressure after diagnosis is critical.**

Treatment must be flexible and tailored to the climatic environment of the patient. Blood pressure is influenced by temperature changes: it is higher in winter and lower in summer. Monitoring night-time dips in pressure is an important factor in indicating cardiovascular morbidity and mortality.

Enter Meditech ABPM-05 and ABPM-04 ambulatory blood pressure monitors. Our monitors have been critical to research used to find a seasonal link in night-time blood pressure dips. Use of our monitors contributed to successful hypertension management and control. (Clinical Trials and Regulatory Science in Cardiology 12 [2015] 12-17)



## IDENTIFICATION OF HYPERTENSIVE PATIENTS WITH SUSPECTED SLEEP APNEA SYNDROME

**Obstructive sleep apnea syndrome (OSAS), is the blocking of upper airflow during sleep; one of the most common causes of secondary hypertension, though it often stays undiagnosed.**

Undiagnosed OSAS elevates the risk of cardiovascular mortality and increases the risk of sleep-related traffic accidents. Sleep studies recommended to diagnose OSAS, are not easily accessible, often unavailable or inconvenient.

Studies confirm that Meditech apneABP ambulatory blood pressure monitor with sleep apnea screening functions can help in pre-screening OSAS in primary care. (High Blood Press Cardiovasc Prev [2015] 22:289-371)



# MEDIMETAL LTD.

Bone surgery implants

## Our products and services

Development and production of bone surgery implants and surgical instrument sets.

“All that is essential in trauma surgery.”

## Our value proposition

Our company is committed to high quality, new technologies and innovation in medical care and supply.

The product development is based on the continuous co-operation with our clinical partners. Our CAD-CAM system facilitates the efficient connection of design and manufacturing, while our manufacturing facility uses the latest technology from TORNOS, STAR, DMG work centers and Monnier-Zahner thread milling machines.

Our products are made of the highest quality stainless steel and titanium alloy from leading suppliers who guarantee quality and certification. The implant testing is carried out in accredited laboratories. All the finished products go through quality control.

## Who we are

Our founders have 40 years of experience in developing and manufacturing bone surgery implants, during their career they were the pioneers of establishing the implant production in Hungary.

Our company has been in operation in its current form since 1993.

## Our work

We supply our products to 18 countries: we are a core supplier of the Hungarian Healthcare since 1993, while our efficient distributor network allows us to grow our export dynamically since 2000.

We are aligned with ISO 13485:2012, ISO 9001:2008 and all our products meet the requirements of the EC Directive 93/42 EEC Medical Devices.

Our auditing partner is TUV Reinland.

## OUR PRODUCTS

Our wide product portfolio enables us to provide the hospitals with all that is essential in trauma surgery:

- femoral nails
- tibial nails
- humeral nails
- angular stable plates
- polyaxial plates
- special- and AO screws
- pins and wires
- surgical instrument sets.



[www.medimetal.com](http://www.medimetal.com)

# LABTECH LTD.

Cardiovascular monitoring units

## Our products and services

Monitoring and analysing the heart's activity and its electronic signals.

### Products:

- Holter ECG system (1-2-3-12 channels Holter ECG)
- Stress ECG system (12 channel stress ECG system with treadmill or ergometer)
- Resting ECG system
- Telemedicine ECG system
- Ambulatory Blood Pressure system
- ECG simulator
- Integrated cloud based telemedicine and data sharing solutions

“ **Innovative, long-term ambulatory ECGs (Holters),  
Resting and Stress Test Systems.** ”

## Our value proposition

Our products are easy to wear, battery operated and made with the newest wireless technology and work in perfect integration with a Windows-based computer.

One of our newest telemedicine solutions is the development of an Android-based product line, allowing specialists in emergency centers to connect with remote clinics or emergency vehicles using any Android-based device.

Our commitment to quality allows us to offer a 24-month guarantee for our products, which includes training, technical support, uncomplicated access to spare parts and customer service that is second to none.

## Who we are

Labtech Ltd. is an innovative Hungarian company established in 1990, developing and manufacturing PC-based ambulatory ECG Holter, Resting and Stress Test Systems.

With 25 years of experience, our in-house manufacturing and software development teams, work on the most cutting-edge medical solutions of today.

## Our work

Our products are exported globally and currently distributed in Europe, Asia and Africa.

Our product excellence is guaranteed by our quality assurance certifications: ISO 9001 and ISO 13485.

All our products are CE marked, in line with EU Medical Devices Directive 93/42/EEC.

www.labtech.hu



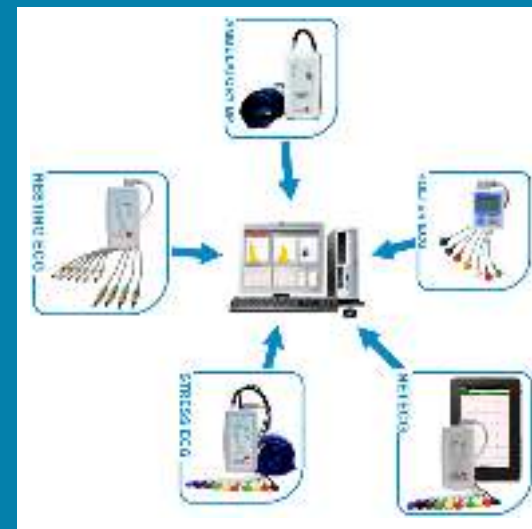
## INTEGRATED SOFTWARE SOLUTIONS

CARDIOSPY® SOFTWARE - CLOUD AND USB INTERFACE

Our proprietary integrator software Cardiospy® is the perfect solution for every type of cardiological examination, be it a simple resting ECG examination, an ambulatory blood pressure analysis or a stress test ECG examination.

Its integrated database enables all clinical data to be stored and managed on the same interface. This increases operational efficiency and improves patient care.

All of our devices communicate using a mini USB-02 interface key with Bluetooth technology, ensuring a fast PC connection. Network operation is available with all of our ECG systems; only one USB-02 is needed to operate in a network environment. This function increases work efficiency and is a very cost-effective solution.



## TELEMEDICINE

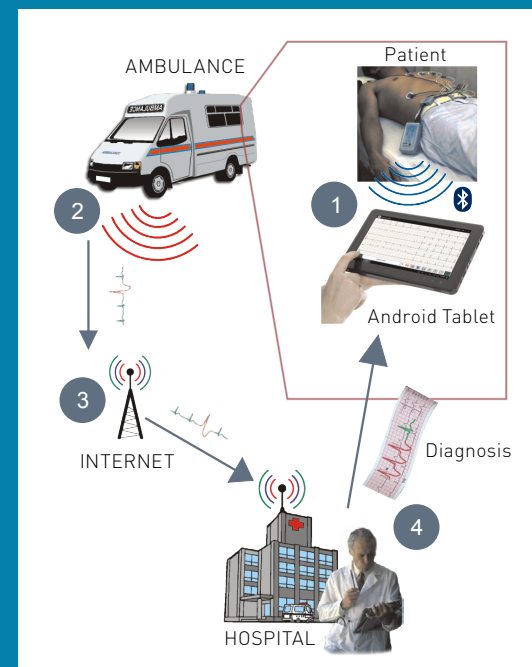
NETECG SYSTEM, EC-12RM AND CARDIOSPY® MOBILE FOR ANDROID

Our telemedicine solutions seamlessly integrate wireless local response with remote expertise. This is especially helpful in situations where a cardiology specialist is not present, as in rural areas, emergency response vehicles and most basic clinics.

Our **NETECG SYSTEM** consisting of **EC-12RM AND CARDIOSPY® MOBILE FOR ANDROID** is the ideal solutions.

- The **EC-12RM** is a compact ECG device, which can forward real-time, 12-channel ECG signals to any Android device (e.g.: tablet or smartphone) via Bluetooth connection making excellent quality ECG records available quickly anywhere.

- With **CARDIOSPY®**, records are easily uploaded to an emergency center where they are immediately evaluated by **CARDIOSPY®**'s cloud application. This application provides immediate feedback on the patient's condition and performs a preliminary analysis of the patient on their way to the hospital. This feature allows the patient to receive appropriate treatment faster and eliminates patient registration.



# CYTOTECH INSTRUMENT LTD.

Laboratory devices

## Our products and services

Blood group serological laboratory automation

**“A clever choice in  
blood-group serology.”**

## Our value proposition

The ACT Robot offers the perfect transition into automatic processing. Our product is user-friendly, offering maximum flexibility and adaptability to client needs.

Cost-effective: No disposable parts needed, open system using any manufactured reagents.

Results: Sedimentation curves, pictures and video clips. The results are clearly presented and can be printed and sent to the database of any hospital laboratory system.

## Who we are

Cytotech Instruments Ltd. was established in 1991 as a pioneer in automating the blood group serological spin tube technique. Its semi-automatic ACT-24 benchtop instrument has been in use for more than 20 years and its first fully automated blood grouping instrument was developed in 2006.

Cytotech's latest development is the fully automatic self-cleaning instrument, the ACT Robot, completed in 2013 and now ready for market launch.

## Our work:

Our devices have been sold in many institutes since 2013 including:

- Military Hospital Medical Centre
- Nyíró Gyula Hospital - National Institute of Psychiatry and Addictions
- National Institute of Clinical Neurosciences

Cytotech is certified by the medical device quality standard ISO 13485 certified.

cytotech.hu



## ACT ROBOT

A FULLY AUTOMATED SPIN TUBE SYSTEM  
FOR BLOOD GROUP SEROLOGY

The ACT-Robot is the only fully-automated, self-cleaning automatic spin tube system that makes the evaluation of every blood-group serological reaction possible, using the "gold standard" tube technique.



**This device is suitable for  
pre-transfusion and pregnancy tests  
including:**

- Antibody screening
  - Indirect Coombs test
  - Enzyme test
  - Polybrene test
- Antibody identification
- Crossmatch test
- ABO forward and reverse blood group typing
- Rh blood group typing
- Direct Coombs test
- Phenotyping
- Titration





# PHARMAFIT SPORT LTD.

Therapeutic creams and gels

## Our products and services

High-quality products based on the power of concentrated active herbal substances for sport-related joint and muscle problems

- Richtofit Sport Cream
- Richtofit Rapid Aktiv Sportsgel
- Richtofit Herbal Massage cream
- Richtofit Cold Sore Gel

“Tested and approved by Olympic Athletes.”

## Our value proposition

There are universal values which are cherished by all people: good health. This is what we want to support with truly innovative products.

## Who we are

The history of the Richtofit brand goes back to the early 1980s when the research team of Richter Gedeon pharmaceutical developed Richtofit SPORT to help professional athletes and sport enthusiasts to warm up their muscles before sports activities and regenerate tired, muscles and fatigue-fever.

Based on a carefully selected and unique complex of active herbal ingredients, the product was clinically tested with professional sports players and researchers at the College of Physical Education.

Richtofit is the official sports cream of the Hungarian Olympic Team and has been used by hundreds of thousands of sports players since the 1980s.

Hungarian-owned Pharmafit Sport Ltd was established in 2012 to manufacture, market and distribute the original Richtofit SPORT Cream and to continuously develop innovative herb-based health and cosmetic products.

## Our work

All cosmetic products are manufactured under ISO 22716 (cosmetic GMP) and our medical Device products under ISO 13485 (MD GMP) and comply with the EU CE certification.

We distribute our products within the EU, Russia and CIF, Latin America and the Far-East.

[richtofitsport.hu/en](http://richtofitsport.hu/en)

**RICHTOFIT** **SPORT**

## SPORTS CREAMS FOR EVERY ATHLETE

**Richtofit Sport Cream** is ideal for targeted local treatment of muscle and joint complaints in sports, at work and in everyday life. It promotes healing for muscle spasms, exercise pains, muscles strains, pulled muscles, bruises and sprains.



**Richtofit Rapid Active Sport Gel** provides fast and effective help in preventing and treating sport injuries and soothing muscle pains. Its gel format delivers a fast cooling and relaxing effect. It provides immediate relief - soothing pain, fatigue and fever and treats muscle strains.



**Richtofit Herbal massage cream** with its unique herbal-based Richtofit Komplex Formula is suitable for the massage of painful legs, back and neck.



**Richtofit Cold Sore Gel** treats cold sores by soothing its symptoms and promoting healing during the whole cycle of the cold sore outbreak, from the first symptoms (tingling, itching sensation) until they disappear. This product is based on the essence of several specially selected and clinically tested herbs with no side effects.



# SZEMES 007

Therapeutic devices and supplements

## Our products and services

- BEMER Physical Vascular Therapy
- Flavon Nutritional Supplements

“Everyday health”

## Our value proposition

Szemes 007 brings two high-quality product lines to the health and exercise realm.

### BEMER:

- BEMER is an international market leader in the field of vascular health and microcirculation, conducting research and developing patented treatment methods since 1998.
- We carry a variety of parts and accessories allowing our two BEMER equipment systems, BEMER Pro and BEMER Classic, to target physical vascular therapy, skin disease, sleep issues, spot therapy, regeneration processes and more.
- Double-blind studies have affirmed the effect of certified BEMER devices as applied to physical vascular therapy.

### FLAVON:

- Award-winning nutritional supplements made from over 30 raw fruits and vegetables rich in anti-oxidants and flavinoids.
- Developed by research and flavinoid expert, Prof. Dr. Dinya Zoltan.
- Our product line includes 8 products including: Flavon Active, Flavon Protect, Flavon Max, Flavon Kids, Flavon Max+, Flavon Green.
- Contains no preservatives and boasts a high ORAC value.

## Who we are

SZEMES 007 Ltd. was established in 2007. We offer BEMER, our line of vascular therapy technology and FLAVON, a line of award-winning natural dietary supplements. Our products are backed with scientific research. We rise to the highest standards of excellence, with high-quality product lines and work processes.

## Our work

Szemes 007 serves medical device distributors, health centres, hospitals, clinics, hotels and sports clubs in the Balkan, Middle East and Arab Countries, Asia, the Far East, Central and Eastern Europe.

BEMER is an officially approved medical device in EU, class II a (93/42EEC, CE0483). FLAVON holds the ISO 22000 and national certificates, ORAC test.

## BEMER PHYSICAL VASCULAR THERAPY INCREASED CIRCULATION HEALS THE BODY

Too much stress, too little sleep, an unbalanced diet, unhealthy lifestyle habits, illness and of course aging, restrict and disturb blood circulation, slowing down the pumping movements of the smallest blood vessels of our bodies. Poor circulation leads to accelerated aging of the cells and is a reason for many ailments and diseases.

BEMER Physical Vascular Therapy can counter this and boost blood flow, benefiting the body's cardiac system, regenerative abilities and even mental acuity.

With the help of electromagnetically transmitted signals, the BEMER Physical Vascular Therapy system stimulates the pumping movement of the smallest blood vessels, normalizing circulation in a given area. Increased circulation allows the body to better fight disease and pain, heal wounds and increase energy.

The new BEMER Physical Vascular Therapy system represents the most researched and effective physical treatment method used in preventative and complimentary medicine today. Just 8 minutes of use, twice per day, is scientifically proven to bring health benefits to any user.



## BETTER HEALTH THROUGH FLAVON NUTRITIONAL SUPPLEMENTS

Flavon presents award-winning natural nutritional supplements that help develop a balanced diet rich in vitamins, minerals and antioxidants in children and adults alike.

Our products are made from more than 30 carefully selected raw fruits and vegetables and do not contain any preservatives, ensuring that the vitamins and active agents found in fresh produce remain intact. Our manufacturing technology is based on years of research and use a special procedure which extracts moisture from fruits and vegetables without using heat. Our Flavon product line is made from anti-oxidant and flavonoid-rich berry fruits and vegetables which can be most efficiently utilized by the human body.



Flavon has received accolades including the Enterprise of the Future (2015), the Monde Selection Grand Gold Award (2014). Flavon is based on the work of Prof. Dr. Dinya Zoltan, who has devoted his life to the physiological effects of plant materials with a specialty in flavonoids. During his career he has written 200 scientific publications and eight books covering his research. He has been a key member of the Flavon team since 2005.

# KEROX LTD.

Dental implants

## Our products and services

Production and sales of:

- High-Quality Zirconia Blanks
- E4K Milling Machine
- E4K Colouring Liquid
- Pmma Premia
- Base Wax

“ **The secret behind a confident smile.  
The art and design of zirconia ceramics.** ”

## Who we are

Kerox Dental is a 30 year old, high-precision, ceramics manufacturer based in the EU, with a production facility in Hungary. We manufacture and sell over 60 million high-tech ceramic products each year, specializing in creating the highest quality dental zirconia on the market. Our products are backed by our dedicated R&D and engineering team of 34 experts in the field.

We provide superior customer service care, reliable on-time delivery and competitive prices.

Kerox has a unique pressing and sintering technology, with total quality management. We combine the use of the most advanced qualifying methods and automatic inspection machinery, as well as demanding multi-stage quality control procedures including 100% inspection of all parts. Our motto is “no technological compromise to quality”.

## Our work

Kerox has customers in more than 30 countries worldwide, including those in Europe, North, South and Latin America, Asia, Australia and Africa. We are ISO (9001), CE and FDA certified and hold a variety of patents.



[www.kerxdental.net](http://www.kerxdental.net)

## WHY ZIRCONIA?

IT'S A GOOD CHOICE IF YOU ARE LOOKING FOR A STRONG, LONG LASTING AND VISUALLY APPEALING CROWN.

**Zirconium** is becoming one of the most chosen materials for dental crowns. Milled from crystal, these crowns are both aesthetically pleasing and are guaranteed to be at least 5 times stronger than porcelain or metal fuse.



## CAD/CAM

Our E4K Milling Machine is an easy-to-handle, low-maintenance and reliable system with high precision, 10 micron tolerance, even in tough circumstances. This system can be used 24/7.



## E4K Colouring Liquid

E4K Colouring liquid is suitable for the colouring of milled zirconia crowns and bridges using a dipping technique, prior to sintering. It is a water-based colouring liquid that corresponds to the 16 basic colours, thus covering the entire chromatic spectrum of the classical VITA-shades.



## E4K PMMA PREMIA

E4K PMMA Premia CAD/CAM discs are suitable for fabrication of temporary crowns and bridges and for verifying bridges on a plaster model or in-mouth before the final ZrO2 milling process.



## E4K BASE WAX

The E4K Base wax discs are suitable for casting and verifying frameworks on a plaster model.



**100 YEAR**  
LIFETIME WARRANTY

KEROX PROVIDES A 100 YEAR/ LIFETIME WARRANTY  
STRENGTH, TRANSLUCENCY AND EASY MILLABILITY

# EVOPRO GROUP

Green public transport and engineering

## Our products and services

- Composite eBus
- Fast, overnight EV chargers with payment solutions
- Railway diagnostic systems (Wheel-load and rail temperature measurement systems)
- Engineering Services
- Industrial Automation

## Our value proposition

We serve the leaders of industry with new automation solutions. We provide competency and innovation in areas such as automotive, logistics, power transmission, system migration, energy control systems and intelligent buildings for our international client base.

Our dedicated R&D team delivers embedded systems [signal and micro processing as well as sensors], develops tailored software [cloud systems, high computational complexity systems] and creates mobile computing solutions and vehicle systems to meet the demand for smart solutions.

## Who we are

Established in 2001, our founding success was the participation in the installation of the most modern automated baggage handling system in the world, the Lufthansa flagship terminal 2 in Munich, Germany.

Today, we have a track record of successes. Through our state of the art R&D centre we have broadened our portfolio to provide the newest innovations including the energy efficient modular electrical bus for public transport; the Modulo bus family. The electric charger stations and the dynamic railway diagnostic systems are the final products of our innovation projects.

## Our work

We serve an international client base from over 30 countries on five continents. Satisfied leading clients such as Audi, BMW, Daimler, Suzuki, KUKA, Budapest Airport and Paks Nuclear Power Plant which always have tasks for our engineer experts.

Certified by ISO and European standards.

We are recipients of the:

2014 Budapest Brand Award for innovative projects and for creating environmentally friendly transportation systems.

2014 & 2015 Hungarian Quality Product Award® for the dynamic railway diagnostic system called eRDM in 2014, and for the creation of the modularly built MODULO bus family, in 2015.

We are a Microsoft Gold Certified Partner, Siemens Solution Partner, Cisco Premier Partner and we are an official Siemens Driver Center.

**“ Providing high quality innovative engineering solutions for the technological challenges of the future. ”**

<http://www.evopro-group.com>



## AWARD-WINNING INNOVATION: THE COMPOSITE EBUS

**How do you build the most innovative, multi-purpose bus, reducing energy consumption 76 % better than conventional fossil-fuel powered buses?**

The solution: We significantly reduce the gross weight of our buses with composite technologies, use low-floor designs and equip the bus with an effective electrical driveline and an intelligent, traffic-interactive vehicle control system.

Combine this with a modular design for four different passenger capacities and three types of power trains [electric, CNG, serial hybrid, Euro6] and a new bus legacy has been born.



## UNIVERSAL ELECTRIC CHARGING STATIONS

**How do you build smart, integrated AC and DC charging systems for all types of electrical vehicles?**

We combine vehicle charging with a need for mid to long-term parking at offices, residential areas and airports. Utilizing universal connectors for all standards, RFID identification, remote supervision systems and online appointment scheduling, we have created the future of smart charging.



## PRODUCT AWARD WINNER DEVELOPMENT: RAILWAY DIAGNOSTIC SYSTEM

**How do you develop a new system for railway diagnostics?**

We combined step-by-step continuous research and development with the academics of our technical university and partnered with the Hungarian railway company. Together we create innovative railway measurement systems. One of our systems measure the temperature (eRTM) for saving rails. The other system is a diagnostic system (eRDM) for monitoring overloaded wagons, load asymmetry, axle load, wheel defects and train speed.





# INVENTURE

## AUTOMOTIVE ELECTRONICS

Automotive electronics

**“Best In Class:  
Remote  
management of  
automotive  
vehicles and  
equipment with  
intelligent  
non-invasive  
interfaces.”**

### Our products and services

Intelligent Interfaces and applications for remote vehicle or equipment management.

### Our value proposition:

Any fleet operator requires reliable information on vehicle data and driver behavior to increase traffic safety for preventive vehicle maintenance or to control fuel consumption.

Our intelligent interface reads information from the vehicle's electronic system and transmits information such as error codes, fuel consumption and level, mileage, RPM, driving behavior, wirelessly.

The ultimate in fleet management solutions, our system incorporates almost unlimited intelligent business reports with an analysis of information stored in the cloud, using smart algorithms.

### Who we are

Inventure has over 18 years of international experience providing innovative solutions in control and monitoring technologies. We are continuously expanding our portfolio through our ISO certified R&D centre, in cooperation with leading universities.

Currently, Inventure is on the forefront of developing solutions to prevent cyber-crimes on vehicles.

### Our work

Inventure boasts sales in over 50 countries for customers such as police, army, public transport, taxi companies, power stations, vehicle manufacturers and insurance companies. We are e-certified for safe vehicle installation.

Our products are compatible with all major automotive, truck and bus manufactures as well as crane and generator manufacturers.

## REMOTE MANAGEMENT FOR POWER GENERATORS

**How do you know whether a remote generator is working properly, when to refuel the generator or when to send a mechanic for repairs?**

Our solution remotely reads generator engine information through a safe contactless interface and reports all required performance information [such as engine RPM, fuel consumption, engine hours, generator output, voltage and current levels] to the cloud. Easy-to-access information can be utilized from anywhere in the world.



## REMOTE MANAGEMENT OF DRIVER BEHAVIOUR FOR INSURANCE COMPANIES AND FLEET MANAGEMENT

**Ensuring safety: How do you identify and educate risky drivers to reduce accidents and adapt insurance premiums?**

Risky drivers use more fuel, require higher vehicle maintenance costs and are more likely to be involved in accidents, risking their safety and that of those around them and ultimately increasing their insurance premiums.

Our solution allows a fleet manager or insurance company to remotely collect data on driving standards [breaking, acceleration, steering method, vehicle dynamics, engine usage, seatbelts, headlights and many more] and allows real-time feedback and ranking to drivers.



# ELECTROAUTO LTD.

Electric vehicle production

## Our products and services

Innovative electrical vehicles providing:

- Passenger transportation
- Cargo transportation
- Mobile street vending
- Golf cart transportation
- Portable ambulance/medical use
- Funeral coach / Hearse
- Custom transportation solutions

**“Electric cars  
for all  
purposes:  
you name it,  
we build it.”**

## Our value proposition

Using Hungarian workmanship and suppliers, we offer the highest-quality, custom-made electric vehicles for any need. Our offerings include transportation for 2-6 passengers, trailers and even vehicle combinations for 14 people. Our cargo transportation can include vehicles with a plateau tilting in 3 directions, with short, long or special body types and cargo boxes.

Our vehicles have been used for:

- Passenger transportation
- Cargo transportation
- Mobile street vending
- Golf cart transportation
- Portable ambulance/medical use
- Funeral coach / Hearse
- Custom transportation solutions

## Who we are

Electroauto was founded in 1995 by Hungarian entrepreneurs. Our expertise comes from over 20 years of development, production and leasing of custom electric vehicles. Our dedication comes from our vision of a world in which electric vehicles operate without noise and exhaust pollution.

Electroauto is a Hungarian company, using local suppliers. We operate from two cities in Hungary, Budapest and the small town of Kisbér.

Production time for our vehicles is between 2-8 weeks depending on the specifications.

## Our work

Electroauto is based in Hungary and our products are distributed world-wide by our partners. Our work is under ISO qualification control (ISO 9001 and ISO 14001 quality management systems are instituted).



ELECTROAUTO

[www.electroauto.hu/en](http://www.electroauto.hu/en)



## HUNGARIAN PUBLIC PROCUREMENT

We delivered 3 PV electric cars (2 for 6 persons, and 1 for 4 persons) with associated trailers in 2015 September. The city bought them in framework of an EU tender to improve city tourism.

## MACEDON TENDER

We delivered 7 pcs of PLL48 (4 persons + plateau) electric cars to Skopje which will be used for tourism. The vehicles have a constant success in the city.



# EU EDGE LTD.

Augmented reality

## Our products and services

Our products and services include the Aero Glass Augmented Reality navigation for pilots using a head-mounted display, the Aero Glass flight planning package for tablets, the Aero Glass SDK for military and commercial applications, and the Aero Watch™ which gives the pilot access to environment and avionics data, as well as the flight plan.

**“ You don't need eyes to see, you need Synthetic Vision. ”**

## Our value proposition

Aero Glass provides a unique solution to address a pilot's need to properly visualize terrain, navigation, traffic (ADS-B), instruments, weather, and airspace information with access to vital safety procedures and protocols, without manually inspecting instruments, reducing pilot error. Using Epson Moverio, Google Glass and other Head-Mounted Displays, Aero Glass is the first in the industry to bring Augmented Reality to pilots, providing an unparalleled 3D, 360° experience in the cockpit, regardless of visibility and conditions.

## Who we are

EU Edge is a cutting-edge engineering and process management partner. We specialize in high-quality, outsourced software development and process management consulting. We are based in Budapest, Hungary and work primarily with US based clients, providing creative solutions and programming expertise to innovative, intensive technology projects.

We are a mature organization with an all-senior pool of talented software engineers and architects, QA professionals, Agile IT managers, business development professionals and project managers who believe in open source technologies and the power of agile methodologies. We guarantee that the project is in good hands and everything is going to be delivered as planned.

## Our work

Aero Glass plans to develop customized versions of its data visualization platforms for a variety of industries from military to agricultural uses, from first-responder applications to gaming, and from flight training to boating. Our software platform is designed to display data from a variety of sources in 3D form, which can be utilized in countless future application developed for the consumer and the industrial spheres.

## AERO GLASS

### AUGMENTED REALITY GLASSES FOR GA PILOTS

**Pilot error is the cause of 60-70% of aviation accidents. Current technologies require that pilots mentally convert complex instrument readings and 2D flat panel displays into 3D, 360° reality.**

Aero Glass™ solves this problem and improves flight safety and the overall flight experience. By visualizing terrain, navigation, traffic, instrument, and weather information, as well as providing access to vital safety procedures and protocols our AR smart glasses, eliminate a pilot's need to manually convert and inspect the instrument readings. Aero Glass™ has partnered with Epson, Qualcomm, Osterhout Design Group, Astronautics, and several avionics manufacturers to pioneer Augmented Reality for global General Aviation pilots providing an unparalleled 3D, 360° experience in the cockpit, regardless of visibility and conditions.



<http://glass.aero>



# VEMOCO TELEMATICS LTD.

Connected car service and traffic management

## Our products and services

Connected car services worldwide via VEMOCO cloud and as white-label based on telematics and big data analytics. Private and public sector solutions include:

- Web and mobile application
- Self install ODB device (to be plugged in cars without installation)
- 24x7 emergency service (via local partners)
- Analytical data (traffic management, e-drivers licence or car history)

**“VEMOCO the way you drive – The affordable connected car service.”**

## Our value proposition

VEMOCO is the only connected car service provider with seamless mobile and web integration and an established safe driver index approved by insurers.

Our innovative services include making e-calls, remote car safety supervision, smarty city integration with traffic control systems, e-drivers licences and certified car history analytics.

## Who we are

VEMOCO is the result of over 20 years of innovation and experience of its founders, who worked for large international ICT service companies before starting VEMOCO.

VEMOCO was created as a response to the growing demand for intelligent car connectivity services around the world.

VEMOCO continuously invests in innovation, globalisation, research and development spending over \$1 million USD over the last 2 years.

## Our work:

VEMOCO solutions are used by leading telecommunication, insurance, corporate fleet and public service providers as well as private car owners in Hungary and abroad.

In 2014 VEMOCO won the “Best Cloud Start-Up Award” in Hungary, Europe, for its complex analytics of vehicle, weather, traffic and traffic data transformed into an index to score driver's behaviour. The index is approved and used by various insurance, leasing and fleet management companies.



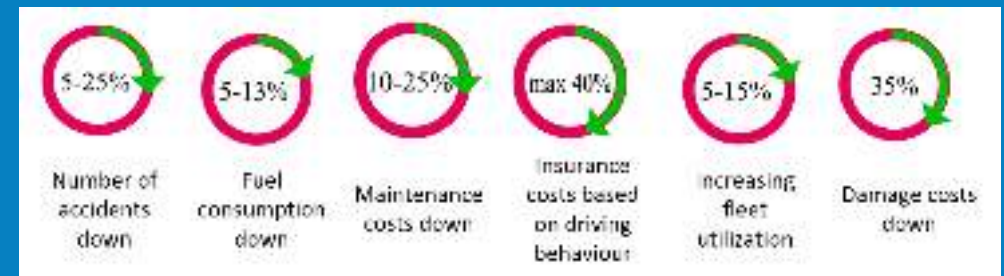
vemoco.com/en

## COST EFFECTIVE AND SAFE CAR FLEET MANAGEMENT

Corporate fleet management requires constant efficiency improvements to stay competitive and improve safety.

Our solutions help identify saving potentials in fleet management using disruptive technology from VEMOCO like driving skills analytics, traffic prediction and accident or failure assistance or traditional fleet optimisation.

VEMOCO has a proven track record of reducing total cost of ownership (TCO) between 10-18 % for large enterprises even if they used other legacy solutions previously. The savings in TCO achieved by our customers:



## SMART CITY REAL-TIME INFORMATION MANAGEMENT

With BigData analytics, the 10MB of data sent monthly by each VEMOCO vehicle is transformed into valuable information. The data is used by VEMOCO public sector customers in conjunction with smart city applications, to inform citizens about:

- City traffic management and prediction
- Real-time public service information (e.g. ambulance, garbage collection, or public transportation)
- E-Call services and road safety management
- E-driving license with integrated driver skills and behaviour records.





# HUNGAROCONTROL PTE. LTD.

Aviation consulting and air navigation services

## Our products and services

HungaroControl (HC) with its consulting partner, Independent Business Group (IBG), provides the full range of aviation management and air navigation consulting and training services including:

- Aviation assessments, strategies and feasibility studies
- Procurement and Implementation Support
- Regulatory Compliance
- Operational Efficiency
- Safety Management
- Airspace Development and Procedure Design
- Human Factors assessments
- Air traffic controller basic trainings (through Entry Point Central)
- Airspace Simulation (CRDS Centre for research, development and simulation)
- Remote tower concepts of operations and consulting (deployment)

“Straight to the Point.”

## Our value proposition

Being on the forefront of air navigations services (ANS) Hungary has earned worldwide recognition as a provider and for our consulting, training and simulation services.

- The **ANS III, new air traffic control center** is our new integrated, civil and military, ATC center covering nearly ten thousand square meters and equipped with state-of-the-art technology (MATIAS).
- **Entry Point Central international training academy** in Budapest, in cooperation with the Swedish, Danish and Norwegian Academies, provides the highest standards in training techniques and professional content.
- The **CRDS international simulation centre**, our Centre of Research, Development and Simulation, offers real-time airspace simulations that are indispensable for the development of the airspace structure and air traffic control and testing theory.
- In **cooperation with Independent Business Group (IBG)** we offer the full spectrum of aviation consulting services.

## Who we are

HungaroControl provides air navigation services in the Hungarian airspace and on a NATO assignment for the airspace over Kosovo. We train ATC personnel and conduct air navigation research and development.

Independent Consulting Ltd. was founded in Hong Kong in 2007 and provides aviation and management consultancy to providers, airports, regulators, airlines and ground handlers through its network of 70 experts and consultants.

## Our work

HungaroControl's flight safety performance and safety indicators have also earned international recognition. The company has not caused a single second of delay to airlines or passengers in the past 10 years. We have successfully supported air navigation service providers from across the world with expertise, simulations and training.

Independent Business Group, a leading aviation consulting brand, speaks best through its references including EUROCONTROL, IATA, Gatwick Airport, Changi Airport Group, DCA Malaysia, AIRNAV Indonesia, Dubai Air Navigation Services and many others.

[www.hungarontrol.hu](http://www.hungarontrol.hu)  
[www.independent-business-group.com](http://www.independent-business-group.com)

 **HungaroControl**  
Hungarian Air Navigation Services

## DEVELOPMENT OF CONCEPT OF OPERATIONS (CONOPS) FOR A CONCEPTUAL DUBAI CONTINGENCY REMOTE TOWER

With two operational airports and plans to develop the world's largest airport with a capacity of 12 million tonnes of cargo and 160 million visitors, the Emirate of Dubai is in need of the most cutting-edge air navigation services.

A joint team from the Independent Business Group and experts from HungaroControl have worked on a concept of operations (CONOPS), operational requirements and a business case for the use of remote tower technology. Our goal is to provide a sustainable and safe contingency solution for the Air Traffic Control tower operation for Dubai Air Navigation Services (DANS).



The project covers an additional feasibility study to assess if remote tower technologies can be used in Dubai. This will ensure contingency sufficient enough to maintain 100% of the actual traffic at these airports.

## CPDLC INTRODUCTION FOR ROMANIA AND BULGARIA SIMULATED AT HUNGAROCONTROL CRDS

With a forecasted doubling of aircraft movements over European airspace within the next 15 years, the EU has mandated new systems and a policy of European air space integration (Single European Sky, SES).

Congestion in sector frequencies is a well-known constraint in air navigation services; voice communication tasks represent between 35 % (50 %) of the tactical (executive) controller's overall workload.



Controller-Pilot Data-Link Communications (CPDLC) open a digital data-link channel for the transmission of information and instruction between ATCOs and pilots independently of the radio frequencies currently used for voice communication. With the application of this communication method, flight safety will be increased and congestion of voice communication frequencies will be reduced.

In order to ensure measurable benefits from its introduction in Bulgarian and Romanian airspace, a real-time test series was required. In the Centre of Research, Development and Simulation, the various procedures implementing the CPDLC technology were simulated over nearly two weeks and successfully proved the reduction in frequency load.

# FLASHNET HUNGARY LTD.

Intelligent energy management solutions



## Our products and services

Remote street lighting management systems with intelligent value added sensors and functionalities.

**“Innovative and energy efficient city lighting management solutions with almost unlimited integrated smart city functionalities.”**

## Our value proposition

Our solutions work easily and effectively with existing lighting systems. No need to change lamp posts or fixtures, or do the costly construction often needed to build intelligent infrastructure.

- Adaptive light brightness is controlled independently: motion sensors at each pole allow for substantial energy saving and significant reduction in light pollution
- Our fully scalable solution allows for small, corporate installations as well as large, metropolitan projects
- The flexibility of our sensors [video, temperature, light, pollution] and modules [e.g. electric vehicle charger or Wi-Fi] allow for unlimited application
- Smart interfaces and analytical software tools allow for unlimited opportunities to partner with powerful applications in health, safety, other areas

## Who we are

With 10 years of international experience, we are experts in small and large scale deployments of smart city technologies.

With offices in Hungary and Romania, our in-house research and development team is dedicated to integrating the newest applications and value added functionalities to our proprietary remote management solutions.

All solutions are certified to international standards.

## Our work

Our solutions have supported municipalities and corporations across Central and Eastern Europe and the Middle East. Partner countries include: Saudi Arabia, Australia, Germany, Indonesia, Bahrain, United Arab Emirates, Czech Republic, Slovakia, Slovenia, Austria, Romania, Hungary, Poland and Russia.

Our company holds the following certifications and patents:

ISO 9001:2008 Quality Management System, ISO 14001:2004 Environmental Management System, ISO/IEC 27001:2013 Information Security Management System, CE, EN 50065-1 (2005), EN 50065-2-1(2003), EN 61547 (2010), EN 55015 (2007), EN61000-3-2 (2006), 60068-2-1 (2007), 60068-2-2(2007), ANSI/IEC 60529, LonMark OLC. CE mark per Directive 1999/5/ec; Directive 2006/95/ec: Low Voltage Electrical; Directive 2006/95/ec: Electromagnetic Compatibility; IEC 60950-1:2005, class II, double insulation



<http://flashnet.co.hu>



**FLASHNET**

## MORE THAN 24% ENERGY SAVINGS REALISED IN THE HOLY CITY OF MAKKAH

With over 2 million residents and 4 million pilgrims each year, the Holy City and sites of Makkah, require a reliable and adaptive lighting system that is operational 24 hours a day.

Exactly 25,000 high-pressure sodium lamps were used to create almost natural lighting conditions in the city. After the installation of our Street Lighting Remote Solution, we configured the light intensity of the system according to real-time weather conditions. Use of our systems brought a 24% energy savings within one year to the Holy City of Makkah.



## UNLIMITED OPPORTUNITIES IN SENSOR-DRIVEN SMART CITY SOLUTIONS

Our remotely-managed street light network continuously supplies power at lamp-pole level, providing power to almost any type of sensor, electrical vehicle charging dock or Wi-Fi network. It can even generate additional income from back-lit advertising panels.

Real smart city solutions integrate light, pollution, noise, temperature and traffic density sensors and CCTV cameras with intelligent remote management systems. This allows for utilization of an unlimited number of applications from energy-saving processes to automated emergency service notification with real-time assessments.



# AKUSZTIKA LTD.

Environmental pollution assessment and management

## Our products and services

Pollution assessment (noise, vibration, air, light, climate) and implementation of solutions for cities, offices and industry.

**“Innovative pollution assessment and solutions to improve our quality of life.”**

## Our value proposition

Using our unique accredited measurement approach, we are able to accurately measure and assess almost any source of pollution, be it noise, emissions, particles, vibration, light or hazardous materials. We capture and the impact of ambient pollution in cities, offices and industry.

Following accurate assessment, we offer innovative modelling solutions and applications to reduce pollution and mitigate damage to people in their cities, offices and homes.

## Who we are

Established in 1996, we offer engineering expertise and solutions in all areas of environmental protection and workplace safety to an international client base.

Our measurement and sampling activities are accredited since 2006 by the National Accreditation Council MSZ EN ISO/IEC 17025:2005 standard and comply with the highest standards of the EU.

Our company is ISO accredited in quality and environmental management systems.

## Our work

Our customer base is comprised of diverse leading companies and governments including the European Union, Audi, Coca Cola, Lego, Walt Disney, ExxonMobile, Glencore, Vodafone, Hitachi, Mercedes-Benz, Porr and the Saudi BinLadin Group.



<http://akusztikakft.hu>

## EUROPEAN INNOVATION / IMPLEMENTATION OF NOISE REDUCTION IN OFFICES

Ambient noise can negatively impact working environments, decreasing workplace productivity and even leading to physical damage in humans. Supported by the European Union, the project applies our results in combating noise pollution in offices.



Our solutions include the use of innovative materials such as timber, films, foams, laminated textiles in offices buildings and decoration, improving overall acoustics and reducing noise pollution.

## REDUCING TRAFFIC NOISE THROUGH THE INTELLIGENT TRAFFIC ENVIRONMENTAL SYSTEM (ITES)

The Intelligent Traffic Environmental System is a system that effectively reduces traffic pollution in busy cities.

ITES monitors air pollution levels and traffic density across different locations and provides stakeholders with continuous feedback.

Once traffic and associated pollution have been identified and measured, the data is used to create modelling solutions that mitigate traffic flow and pollution sources in the city.



# HIDROFILT

## WATER TREATMENT LTD.

Water treatment, thermal water and desalination solutions

### Our products and services

- Water treatment plants and technologies
- Desalination plants and technologies
- Thermal water treatment
- Specialist water production (industry, nuclear, beverages)
- Potable water treatment technologies

**“European leader in cutting-edge water treatment solutions.”**

### Our value proposition

We are a European leader in industrial and residential waste water, desalination and water network management combining the highest European quality certifications with competitive pricing.

Our expertise covers all areas of water treatment and management including treatment of polluted water [such as brome, arsenic], planning, building and operation of fresh water supply systems and plants as well as innovative, cost-efficient and mobile solutions for desalination.

We have unique expertise in the production of industrial water, creation of special cooling water for power plants and the use of thermal water in food, beverage, juices and other drink production.

### Who we are

We have over 25 years of experience in water treatment technologies for industrial, agricultural and residential use.

With our in-house engineer training school, strong R&D department and engineering teams, we offer full-service change. From tailor-made engineering solutions to the operation of plants, proprietary technological solutions for irrigation and a pre-installed container solution for the easy deployment of complete water treatment plants, we have solutions to fit your need.

### Our work

We are experts in all aspects of water management and have clients worldwide, including high-demand environments such as the Paks Nuclear Power Plant and the GE Components Factory in Zalaegerszeg in Hungary.

All our technologies are certified according to the highest European standards (ISO, OHSAS, MSZ EN, TÜV)



<http://www.hidrofilt.hu>

## MOBILE WATER TREATMENT PLANTS

Container-based or mobile water treatment plants are ideal for emergencies or deployment in remote locations due to their ease of transport and deployment without external power needs.

Our mobile drinking water purification unit cleans and desalinates water for use in disaster areas [conforming with NATO standards], small municipalities, holiday resorts, oil rigs, desert camps and events.



## ULTRA PURE QUALITY WATER GENERATION FOR INDUSTRIAL USE

Certain industries – pharmaceuticals, microelectronics and power stations, demand a special water quality. The microelectronics industry requires ion-free water with the highest theoretical purity called ultra-pure quality water (UPW).

We offer the most advanced zero-liquid-discharge technique combined with other technologies [media filtration, softening, ion exchange, de-carbonation, membrane separation and ultrafiltration] to provide the most reliable and cost-efficient solutions.





# GIBORGA LTD.

## SERVICE AND CONSULTING

Next generation wind energy

### Our products and services

Wind energy power stations as stand-alone solutions for remote or mobile off-grid locations or on-grid environments.

“Next generation wind turbines as a source of independent electric power for small capacity users.”

### Our value proposition

Wind turbines can generate electricity in nearly half the time of day-use solar cells and also operate at night producing a significant amount of electricity in a 24-hour cycle.

Our special wing profile, VertiGo SRG, exploits the potential of the wind torque powering an easy-starting, slow revolutionary generator, which can generate electricity even at a very low wind speed. Using this technique is twice as efficient as traditional wind turbines.

VertiGo SRG is a silent, cost-effective, high-capacity wind generator requiring no maintenance cycles and is capable of generating power starting from as little as .5 m/s wind speed.

### Who we are

With more than 8 years of investment in the successful development of our small-sized wind turbines, the VertiGo SRG has recently been launched for global sales.

### Our work

This new technology, creating in 2014, has been successfully tested by Hungarian gas stations and in Croatia.

## ON-GRID WIND POWER GENERATORS

Wind power offers a power source independent of the time of day. Yet, existing solutions require large rotor installation unsuitable for urban deployment.

We offer a special wing profile, exploiting the potential of the wind torque. A wind turbine running for 8-12 hours daily at maximum power, can generate between 36,000-55,000 kWh electricity annually, which can be directly transferred into the electrical grid.

Our on-grid solutions perform at a range between 3-50kW.



## OFF-GRID WIND POWER GENERATORS

In remote locations or mobile sites, from mountain tops to yachts, power generation is limited to fossil fuels or small solar panels which only operate well in ideal weather conditions.

Our island-mode solution with a built-in battery, offers an independent power source.

Our off-grid solution perform at a range between 1.5 kW [for ships and yachts] 5kW, 10 kW and 20kW.



[www.infinetwind.hu/en/home](http://www.infinetwind.hu/en/home)



# GRANUFLEX

Innovative Recycling

## Our products and services

Rubber waste recycling into building and construction material.

**“Why not build sport field flooring and other innovative materials from waste tyres – well we do it with innovation and dedication.”**

## Our value proposition

Our company collects and recycles more than 10,000 tonnes of waste tyres yearly in our granulation plants, making a considerable contribution to environmental protection.

We use rubber granules to produce 28 diverse playground safety panels, special sports field and gym floor coverings, noise barrier panels and elastic rail bedding elements, each in a variety of colours.

With our capacity of up to 20 tons per day we are able to serve any demand within a short time.

All products are TÜV and EU quality certified.

## Who we are

Founded in 1993 with the goal of recycling tyres into valuable materials, Granuflex was the first in Europe to provide safe playground surfaces with shock absorbing tiles made of rubber granules.

Since that time, we have concentrated on manufacturing safety coverings and panels, playground and sports equipment, park and street furniture. With over 23 years of experience, we now offering a new line of products targeting noise and vibration pollution.

## Our work

We are among the 6 largest granulate suppliers in Europe, with sales in almost every European country.

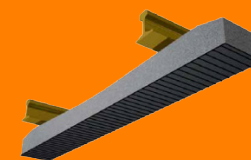


[www.granuflex.hu/en](http://www.granuflex.hu/en)

## RAILWAY VIBRATION AND NOISE DAMPING PRODUCTS

### How to create valuable products from rubber tyres?

From recycled rubber granulates made from tyres, we manufacture a range of special rubber tiles used for noise and vibration protection world wide. Our offering includes grooved rail profiles for trams and an elastic rail bedding system developed for surfaced or grass-covered concrete track structures.



## SAFETY PANELS IN SPORTS ENVIRONMENTS

### Re-purposing for a cause

One of the most important advantages of multifunctional rubber sports panels, is the high degree of safety it brings to an environment. Its shock-resistance and gripping surface in combination with its flexibility, highly reduces the risk of accidents and injury.



# THERMOWATT LTD.

Renewable energy from wastewater heat utilization

## Our products and services

Heating and cooling from wastewater.

**“Reduction in heating and cooling costs from wastewater heat utilization.”**

## Our value proposition

Our company entered the renewable energy sector with a new solution, unknown in the global market, which uses waste heat recovered from wastewater as a new source of energy generation.

Utilizing wastewater heat comes with several advantages:

- Due to its virtually constant temperature, wastewater heat offers much better energy efficiency than soil heat or groundwater.
- The system can be used both in heating and cooling modes and connects easily to the existing heating/cooling systems.
- Low operational costs even with urban city centre installation, is possible.
- Does not consume water unlike other heat exchange systems.
- No size limit in scale as the only limit is the volume of available wastewater streams.

## Who we are

Our company was established in 2007 to implement, manage and operate systems based on its proprietary invention. The “Method and Circuit Agreement for Recovering Heat from Wastewaters” has been patented in Hungary and filed globally.

Our technology was first recognized with the Spanish Aqualia Award for Innovation in 2013 and has received the Abu Dhabi based Water & Energy Award in 2014. It has also received the Abu Dhabi based First Place Innovator in the Water for Real Estate Sector award in 2015.

## Our work

Thermowatt serves clients in Europe, Latin America, the Middle East and Russia. In Hungary we have several reference projects including:

- Budapest Sewage Works
- Hungarian Armed Forces Medical Centre – Military Hospital
- MOM Cultural Centre heating and cooling system
- University of Szeged

We are currently have patents in Hungary, Russia and the Ukraine with patents pending in the EU, USA and China for our “Method and Circuit Arrangement for Recovering Heat from Wastewaters.”

<http://thermowatt-global.com>



## HUNGARIAN MILITARY HOSPITAL HEATING SYSTEM

### Outstanding performance

Before August 2014, the Hungarian Military Hospital in the city centre was using extensive natural gas resources for heating, because of an outdated and inefficient heating and cooling system.

Thermowatt was hired to design a wastewater heat recovery solution – adapting its invention to the special structural needs of the facility. We achieved 100% underground installation, kept the old system online as an operation and security measure and navigated around a collector 70m away in the middle of a road and in the middle of a tram line.



The outcome? Once the new Thermowatt system was operational, the hospital was able to save \$310,000 each year. This system has been operating with outstanding performance and efficiency in both heating and cooling since that time.

## THE “GREENEST” HUNGARIAN UNIVERSITY

**The University of Szeged hoped to become the “greenest Hungarian University.” They applied for and received a grant to build a wastewater-heat recovery system.**

The University selected Thermowatt to implement the project. It had a unique challenge. In order to access enough wastewater to meet cooling and heating capacity, waste water had to be transported from the Alsotelepi pumping station over a 700m long pipeline, to the university. Thermowatt answered the call and was able to execute the project. The University of Szeged is now a contender for the “greenest Hungarian University!”



# INWATECH ENVIRONMENTAL LTD.

Wastewater treatment and biogas generation

## Our products and services

Contracting and supply of industrial and communal wastewater treatment, raw water replacement, recovery of valuable by-products, recovery of raw materials for production and bio gas generation plants in three forms:

- Contiseq Advanced Wastewater Treatment
- H2O. Titanium® Water Disinfection Equipment
- Inwaferm Digestion Treatment System

**“Wastewater engineering and bio gas management -  
Leading technologies for the future.”**

## Our value proposition

We offer state-of-the-art solutions for water treatment and biogas generation. We offer both turn-key and customized design, we manufacture equipment and we operate plants for industries, municipalities and agriculture.

Our waste water treatment plants are highly efficient and low-cost, due to automatization, use of high tolerance biotechnologies and the need for only part-time staff in a full-time facility.

Our utilized photocatalytic (UV/TiO<sub>2</sub>) h<sub>2</sub>o.TITANIUM® reactor is a unique product in the international market, providing efficient and chemical-free disinfection of drinking water, bath water and the processing of waste water.

Our biogas plants are market-leaders, boasting European quality and offering a complete transformation from complex design to implementation.

## Who we are

We have over 20 years of experience in waste water management and biogas generation for both communal and industrial use. Founded in 2001 by environmental technology professionals, our experienced team of engineers is dedicated to excellence in innovation and implementation. Our facilities comply with international and European quality standards.

## Our work

We have planned and implemented more than 30 waste water treatment facilities and biogas facilities in Hungary and Romania for major clients like Heineken, Danone, Henkel, Hamburger Hungária, MOL, Törley, Nestlé and Rauch.

Our certifications include EN ISO 9001:2008 quality management system (QMS), EN ISO 14001:2004 environmental management system (EMS) and EN ISO 18001: 2007 Occupational Health and Safety Management System (OHSMS).



<http://www.inwatech.com>

## MUNICIPAL WASTEWATER ENGINEERING FOR A GROWING CITY

A surge in the population of Mosonmagyaróvár, Hungary, brought a need for intensification of wastewater treatment efforts. As the municipality looked for a high-end technology supplier to install a turn-key wastewater treatment plant, they turned to Inwatech.

We provided plant design, supply and assembly of the key technologies required [cyclic aeration, thickeners and dewatering units, mesophilic digesters, biogas treatment units] and successfully installed a plant with a nominal hydraulic capacity of 8,500 m<sup>3</sup>/day and a projected effluent quality [average/peak] of 77,778/98,333.



## INDUSTRIAL WASTEWATER ENGINEERING IN WINE COUNTRY

A prominent wine maker was in need of a water treatment plant in close proximity to its factory. It was important to avoid odour and noise pollution that would put the factory in jeopardy.

With a very small piece of free area to build on, the wine maker turned to Inwatech to realize the full design and implementation of a quality wastewater plant. The new plant has a capacity of 21,000 PE and raw industrial effluents are treated by a multiple stage fluidized bed (MBBR) with biological excess sludge being separated by a highly efficient DAF (diffused air flotation) unit.





# GANZ ENGINEERING AND ENERGY PRODUCTION MACHINERY LLC.

Hydro and power plants

## Our products and services

Power plant equipment:

- Pumps
- Nuclear power plant equipment
- Water turbines
- Hydraulic brakes and gearboxes
- Soil remediation machinery
- Machining Capabilities
- Valves

“ Innovation driven by tradition. ”

## Our value proposition

Ganz Engineering and Energy Production Machinery LLC. offers products and services in the field of Hydro machinery, nuclear power, the oil industry and soil remediation.

## Who we are

Ganz EEPM is a medium sized company with a staff of 170 and an annual turnover of some EUR 20 million.

Hungarian Ganz Holding, which unites Hungarian production and service-providing companies owns 49% of the company. The Russian-majority owner is the Atomenergomash group containing 50 engineering and energy production machinery manufacturing companies. Ganz EEPM's main activity is engineering, energy production machinery manufacturing and the manufacturing of hydro-machinery, power plant, oil industry and environmental protection systems. We are in possession of the more than 150 year-old Hungarian energy production machinery manufacturing know-how the company has unique knowledge and experience in Hungary and Central Europe in the field of planning and manufacturing individual small-series products: small, medium-sized and large pumps, water turbines, power plant fuel handling machines.

## Our work

We have Hungarian, Russian and Ukrainian Nuclear Power Plant certificates in addition to TUV and ISO certification including ISO 9001, ISO 14001, MSZ EN ISO 3834-2, KM 29/2013 for PAKS NPP, BS QHSAS 18001:2007.



<http://www.ganz-eem.com>

## MINI HYDRO POWER PLANT

Ganz EEM, the Hungarian subsidiary of the "Atomenergomash" group developed a mini hydro power plant which is mounted in a standard container. The new product is designed to meet the electricity needs of remote areas without power grid. Our mini hydropower plant consists of Francis hydraulic turbine, generator and control system (EMS). The generator provides 400 V, 50 Hz three-phase electric current.

The main advantage of the mini hydro power plants is that all the necessary equipment is mounted in a standard container and the system is ready for work upon delivery and connection to electricity. The management and control of the power plant can be done via satellite.

Another promising innovative product, a turbine pump, can service reservoirs and water utilities. When filling the reservoir, the equipment operates as a pump, in a reverse mode turbine which can produce electricity.



## HUGE PUMPS FOR BELARUSIAN NPP

Ganz EEPM 2015 will supply equipment for foreign projects of SC Rosatom. At present, the factory in Budapest is producing 8 powerful pumps type "BPC-1800." During the production process in the laboratory of Ganz EEPM carried out tests of pump models to check conformity of pump parameters' calculated data. These pumps with pre-rotation devices, have a power of 5.5 MW. This type of pump delivers 12 cubic meters of water per second to the circulation system of the Belarusian nuclear power plant.

Ganz EEM also produces 90 different pumps of second, third and fourth-grade security class. They are designed for pumping boric water. In 2015, Ganz EEM participated in the tender for the supply of stainless steel pumps for power units №3 and №4 Kudankulam NPP in India and takes part in the competition for the supply of pumping equipment for nuclear power plant Akkuyu (Turkey). Ganz also manufactures pumps for thermal power plants. The company shipped in April 2015 two pumps for Verkhnetagil'skaya TPP. These pumps are designed for circulating hot water in the boiler sections of the TPP.



# AQUA-TERRA LAB LTD.

Water quality assessment

## Our products and services

- Water Quality Monitoring Systems
- Planning and engineering services for drinking water treatment, wastewater treatment plants and water purification units

“ **A new dimension in Microbiology Water Testing.** ”

## Our value proposition

Aqua-Terra Lab Ltd offers its partners the most advanced technological solutions available on the market.

We invest in R&D projects in the field of monitoring as well as smart metering and smart devices - preparing for the needs of today, and the challenges of tomorrow.

## Who we are

Aqua Terra Lab was established in 1996 and since 2010, the main vision is to innovate and offer their partners the most advanced technological solutions available in water monitoring.

The owners and R&D employees of Aqua-Terra Lab Ltd. have significant references in the areas of water monitoring and device development and ICT.

## Some of our references

- Water Quality Monitoring System on River Dráva (2001)
- Soil erosion monitoring, Lake Balaton (2003)
- Water-quality monitoring via robotic ship (2011)
- Turn-key online water quality monitoring stations at wastewater treatment plants (2011-2012)
- Online water quality monitoring, National Park of Aggtelek (2014)
- Online water quality monitoring on a fish-farm via buoy (2015)

## SIMPLE FIELD BUOY ANALYSER

Continually measure the quality of surface water with this inexpensive and simple buoy monitoring system.

Have buoy data sent via SMS to any phone number and sends an alarm message if the measured parameter surpasses threshold limits.

WLAN and/or GPRS communication are available.



## WATER QUALITY CONTAINER STATION

Our measuring stations are able to make automatic on-line measurement of main water quality components 24 hours a day.

Equipment for each monitoring station are installed per customer demand: sensors, probes, ion selective electrodes, analysers, flow meters, refrigerated samplers.



# CONTROLSOFT LTD.

Electrical networks and process control systems

## Our products and services

- High voltage systems design and implementation for public lighting, buildings and industry
- 0.4 kV and medium voltage electrical distributors
- Low voltage security, fire alarm, CO2, access control systems
- Electric drives, process control management systems
- Instrumentation and custom electronics manufacturing
- Supervisory Control and Data Acquisition system
- Technical information system
- Portal-based information system

“Experts in System Integration!”

## Our value proposition

We help our customers achieve safe, reliable, cost-effective, optimized, environmental friendly operation of their plants, buildings and cities.

Our solutions contribute to customized, efficient and cost-effective solutions. We offer good price-value ratio, while maintaining a high standard of quality and maintaining stable background support.

## Who we are

Controlsoft was established in 1991. Our founders have 25 years of professional experience which has allowed us to provide premium quality services and solutions to our customers.

Our dedicated R&D department delivers cutting edge solutions to optimize operational costs.

As a general electrical contracting company, we offer full-scale systems and solutions.

We offer full range of services including design, manufacturing, installation, commissioning and maintenance.

## Our work

We are a market leader in Hungary in the field of electrical and control engineering for the water industry and maintenance.

We have international experience in Germany, China, Russia, Poland, Romania, Bulgaria. Our clients include Strabag, Colas, Veolia, Sade, Coca-Cola, Lego, Glencore, General Directorate of Water Management of Hungary, Budapest Wasterwater Company, Foxconn China, Hungarian Oil Company and Daimler AG.

Our solutions are certified to international standards: ISO 9001, ISO 14001, OHSAS 18001

www.controlsoft.hu



## INTEGRATED SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM

OF 500 TOWNS AND VILLAGES, CONTROLLING 2,500 SUBSTATIONS

The largest integrated water and wastewater control system in Hungary, provides clean and healthy water for almost million people each day.

Using our webSCADA technology, we designed and implemented a state-of-the-art SCADA system including more than 2,500 different substations.

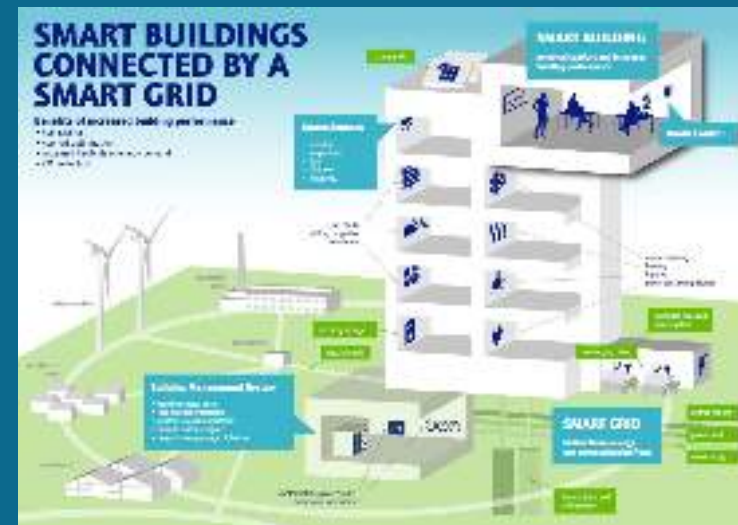
Our project benefits included significant savings in energy costs, chemical consumption costs, labour costs and maintenance costs. Our work also improved stability and safety and optimized operation.



## SMART BUILDINGS

A Smart Building is an office building or commercial complex with enhanced environmental and economic performance. The building achieves this by producing, storing, efficiently managing, and optimally controlling energy. Energy waste can be eliminated by obtaining location information for individuals while ensuring building security, automatically controlling air conditioning and lighting, and visually representing energy usage.

Controlsoft has the best cutting edge solutions to make industrial and commercial buildings more efficient.



# PROLAN GROUP

Intelligent street lighting

## Our products and services

With 25 years of experience in the automation and energy management fields, we have developed our intelligent street lighting management system, ECLIPSE Control. Our system features:

- A higher level of service  
(immediate and exact failure detection, cost cutting by targeted maintenance)
- 30% lower energy consumption  
(by adjusting the light to actual needs, fine-tuning dimming)
- Smart City features can be added (traffic, weather information, etc.)
- Lighting infrastructure can be split into dynamic groups

Prolan ECLIPSE works with any kind of luminaries that correspond to industry standards.

**“Let’s turn the network of streetlighting into an intelligent infrastructure!”**

## Our value proposition

Prolan offers intelligent street lighting control systems featuring LED lighting. Our systems can be customized to make a truly smart city, from traffic and weather sensors to alarm functions. This system provides easily accessible data via user-friendly application. The use of our systems lowers operational and energy costs.

## Who we are

Prolan is a development and manufacturing company with 25 years of experience and 220 employees. Our automation systems are part of the key infrastructure at big companies like RWE, E.ON, EdF and railway companies MÁV and GYSEV.

Our excellence has been recognized through several awards including: Intelligent Company of the Year, 2015 and Top 20 Most Dynamically Growing Business, 2015.

## Our work

Cities of Győr, Budapest, Kaposvár, etc.



www.prolan.hu

## 30% ENERGY SAVING

The city of Győr is one of the largest cities in Hungary with bustling commerce and a rich cultural scene. Recently the city decided to upgrade their street lighting to LED technology complete with remote control and dimming capabilities.



With the installation of this new technology, Győr has saved considerable energy: parking lot lighting at the arena may be dimmed while unused and has full lighting capacities during event time. Should there be a failure in the network, the maintenance company is immediately informed and the failure is reported.





# GEODÉZIA LTD.

Advanced geospatial mapping technologies

## Our products and services

- Cadaster and Easement Mapping
- Geographic Information Systems – GIS
- Public Utility Locating, Mapping & Inventory
- Planning Maps, As-Built Maps
- Inventory & Facility Management Mapping
- Noise Mapping
- Thematic Mapping, Specialized maps & GIS Databases
- 3D Mapping and Modelling

## Our value proposition

We provide a spectrum of geospatial services for clients. Our services range from traditional surveying to complex GIS solutions with system integration. We collect GIS data with LIDAR and GPR, above and under ground level [on roads, railways etc.], above and below sea level and in the air.

Our Data Management Centre utilizes the skills and expertise of more than 100 dedicated engineers, creating ideal solutions. Our data management is fast and cost-efficient. We utilize tailor-made, innovative data extraction techniques.

## Who we are

With 65 years of experience, Geodezia is the largest surveying company in Europe, with proven best-in-class expertise in GIS data collection, 3D point cloud extraction and data management. Our company has 17 offices worldwide and is headquartered in Hungary. We are accredited with ISO 9001 QA; ISO 14001 EM; ISO 19100 GIS and ISO 27001 IS systems.

Geodezia has the distinction of being a NATO assigned partner and is in a strategic alliance with the European Union, the Hungarian Government and the Army.

Geodezia is the 2015 Hungarian nominee for the European Business Awards Business of the Year.

## Our work

In figures, we have surveyed:

- 10 million objects
- 8 million parcels for cadastre
- more than 380.000 sq. km data processing with remote sensing
- 130,000 km electric distribution network
- 130,000 km water pipe network
- 40,000 km gas distribution network
- 28,000 km waste water network
- 10,000 km public road network
- 2,400 km railways
- 1,100 sq. km noise mapping

**“Technology leader;  
largest surveyor  
and complete  
geospatial solution  
provider company  
in Europe”**



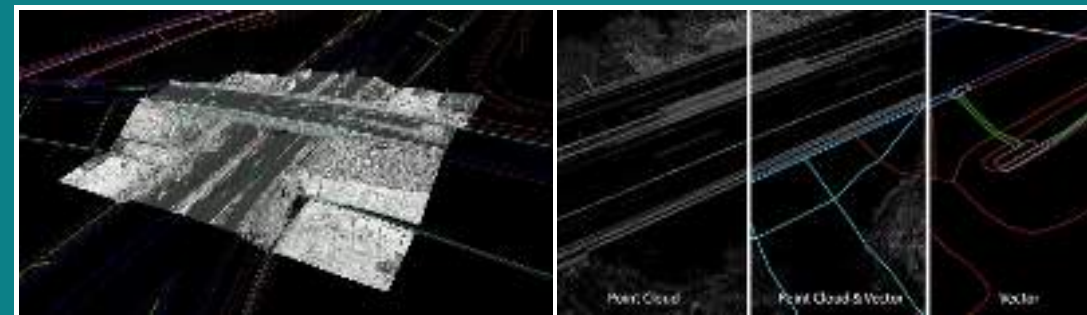
<http://www.geodezia.hu/en/>

## 3D TRAFFIC INFRASTRUCTURE INVENTORY MAPPING WITH MOBILE MAPPING SYSTEM

The mapping of Traffic Network Related objects may be dangerous, and slow, often holding up the normal vehicle flow. Our Mobile Mapping System [MMS] collects data fast, densely, accurately, and safely. The MMS collects information remotely from the surrounding environment, using sets of sensors working together. Thanks to this cutting edge technology, we can travel at speeds reaching 100 km/h, simultaneously collecting data at a point density of more than 1,000 points per square meter to obtain excellent spatial resolution.

The system can measure railways operating on a flat wagon or mounted on a convertible road/rail vehicle.

Riegl VMX-450 Mobile Mapping System mounted on a SUV



A highway section, as shown by a combination of point cloud and 3D vector image.

# SENSO MEDIA CO. LTD

Intelligent, interactive and integrated digital solutions for smart cities

## Our products and services

- Integrated solutions for smart governments, airports, retail, public transport and venues
- Interactive digital signage solutions
- Intelligent terminals, smart tables and smart phone solutions
- Software solutions for campaigns, promotions, payments, ticketing, analytics, face-recognition and detection of moods, genders, areas or physical movement
- Optionally integrated hardware devices like Bluetooth, etiquette printer, photo printer and payment devices like Near Field Communication (NFC)
- Software including map functions, product-related functions, feedback options, event-related functions, ad options and remote administration and monitoring

**“Innovative solutions for tomorrow’s leading smart cities: Intelligent, Interactive and Integrated”**

## Our value proposition

We serve smart city clients with one-stop comprehensive services. We provide creative planning, in-house hardware design and manufacturing, software development and operational and administrative support.

Our intelligent terminals display tailored content and advertising based on our patented customer recognition algorithm, which recognizes gender, age, physical motion and even moods.

Our non-invasive data collection technique enables creative customer-centered campaigns, driving results.

## Who we are

Our company was founded in 2011 to provide innovative solutions for smart cities and smart retailers in the digital signage market

## Our work

We operate over 70 retail outlets and malls with over 220 devices. Our products have interacted with almost 100 million customers.

We serve leading global brands like Coca-Cola, T-Mobile, LG, Vodafone, H&M, L’Oreal and Toyota, with innovative campaigns and promotions.

[www.sensomediagroup.com](http://www.sensomediagroup.com)



## SMART CITY SOLUTIONS:

INTERACTION THROUGH INNOVATIVE, INTELLIGENT AND INTEGRATED DIGITAL SYSTEMS

### Sport arena and event venue management

- Interactive digital venue signage and information terminals with integrated crowd management, lost & found, public transportation or parking information
- Access control, ticketing and facility-booking terminals
- Mobile applications for VIP guests and venues offering real time event statistics
- Smart running tracks providing lap-times, exercises and fitness assessment

### Digital conference management

- Event invitations and B2B planning
- Digital hostess service to welcome guests
- B2B tables with partner information, delayed arrival notifications and time-keeping
- Information desks for meeting planning & time-tables
- Check out, post-event analytics, and contact sharing

### Tourism and attraction solutions

- Smart benches combine functionalities (Wi-Fi, interactive information, car charging) with comfort
- City terminals provide access to multiple information services for attractions, public transportation, maps and value added services such as Wi-fi and ticket sales

### Intelligent airport management solutions

- Multilingual mobile software and devices providing full support for customers arriving at the airport from flight information to airport routing maps, parking to check-in

### Public transport solutions

- Digital bus stops combine information and interactive marketing with intelligent LED lighting, interactive touchscreens and brand recognition
- Public transportation ticketing with route-planning, payment solutions and large displays for easy purchase

### Mall management and retail solutions

- Mall management combining 3D map visualisation, information and tailored advertising and promotions based on mood, face, gender and age detection
- Digital light posters for smarter promotions with interactive games, photo printing and coupons
- Smart phone applications sharing information and data with shops and kiosks to personalize offers
- Double digital towers advertise, promote and collect real-time customer analytics
- Value added vending machines increase transactions with combined entertainment and promotions
- Smart petrol stations include fully automated filling pumps, targeted advertising and station management



# CLEAN-WAY LTD.

Environmental protection and public procurement

## Our products and services

- Mapping application for the recycling of construction-demolition secondary raw materials and wastes
- Environmental protection services (Waste management, flood control, landscape rehabilitation and landfills)

**“ Recycled Demolition Waste  
for a Clean Future. ”**

## Our value proposition

Our expertise includes waste management, transportation, collection, recovery as well as re-vegetation, project management, civil engineering, flood control, landscape rehabilitation, development of innovative waste management systems, and the arrangement of public procurement procedures.

With this expertise, we have created a digital application allowing for the tracking, recovery and sale of secondary raw construction materials as well as the management of polluted sites through an intelligent map system, supported by real-time databases. This product allows users to find the most effective and environmentally-friendly solutions to recycle or acquire secondary raw construction materials.

## Our solutions:

- Eliminate the need for storage
- Eliminate the need for landfills and payment of the EU landfill tax
- Provide a direct connection between raw material and those who need it.
- Manage all sites with quantity and quality data in a cloud format.

## Who we are

Clean-Way was founded in 1986. Our mission is to reduce the environmental burden that the building industry creates, by utilizing secondary raw construction materials and solving the problem of waste materials that building companies face.

Maximum reliability, professionalism and respect for our partners is our key to success.

We are driven by the belief that the environment and the natural surroundings in which we live deserve the best possible care.

## Our work

The company has successfully reused and recycled over 700,000 cubic meters in waste in several large civil project such as rail line constructions and large construction project. Our product is unique to the European Union and currently has no competitors.

[www.cleanwaykft.hu](http://www.cleanwaykft.hu)



## DEMOLITION WASTE MANAGEMENT SYSTEM



Clean-Way has developed an award-winning digital application, allowing the end user to identify detailed information about construction demolition waste.

From the location of the waste to the quality, quantity and types of waste produced, our application allows waste to become traceable.

Our application immediately pinpoints any nearby projects where these materials can be reused, indicating the most economic impact.

Pollution management: Waste products and pollution can be monitored carefully through a separate section of the application to help avoid further pollution.

Our application is listed by the EU as a “Best Practice” and has won multiple prizes. We have been awarded the 5<sup>th</sup> Greenovation Grand Prize in Innovative Projects, we are a winner of the “Digital City” category at the “You Are Coming” Innovation Project Competition and we also won “Okoinustria” Award Prize.

# KONSYs INTERNATIONAL

Smart city energy management

## Our products and services

AVReporter Energy Management Software is scalable and modular software solutions to manage all aspects of energy management

AVReporter equally serves production companies, building complexes, logistic centres and malls, even the most critical infrastructure as banks, hospitals or data centres and multi-sites or city wide installations

“A highly flexible, open energy monitoring and management solution for professionals.”

## Our value proposition

**Our end-user achievements:** Companies have achieved a short ROI period with up to 30% saving on energy bills and reduced their carbon footprint

**Our expertise and experience:** Unlike typical software developer, we have gained more than 10 years' experience in integrating energy management systems, including planning, auditing, proposal making, topology creation, hardware selection, delivering and aftercare.

**Our approach:** We apply strategic thinking, practical insight and market research to the continuous development process. Our approach is collaborative, responsive and knowledgeable, with the goal of delivering success from the system integration, end-user experience and business perspectives.

**Our support commitment:** We offer additional services to help the project work, like project consultation, dedicated fast response TechTeam Support and Remote Engineer service.

## Who we are

KONsys was established in 2003 by a team of friends and colleagues to create their industrial automation firm where high level of practical field expertise merged with innovation and technology.

In 2006, we registered a dynamically growing demand for energy management applications and combined our highly valuable practical field knowledge (hardware, software, system integration) with specialists to develop our very own energy management software, AVReporter.

## Our work

Today, AVReporter is an internationally recognized energy management software, employing some of the brightest talent in the industry and producing flawless experiences for leading brands such as Audi, eON, ABB, Auchan, Lidl, TESCO, Michelin, Honda or Velux.

AVReporter Energy Management Software supports facility, energy and utility managers across more than 50 countries.

[www.konsys-international.com](http://www.konsys-international.com)



## THE BUILDING OF A SMART CITY

GYOR, HUNGARY

In 2013 the city of Gyor in Hungary, home of KONsys and E.ON, one of the world's largest investor-owned power and gas companies, have entered a partnership to transform the city into a smart city with the commencement of the European Youth Olympic Festival in 2017.

While efficiency options for smart cities cover every possible area, from public services, transport, utilities, health care to education, for Gyor energy management criteria we established.

For Gyor to achieve these goals, the process includes primarily rethinking production processes, connecting production units to a virtual power plant control system, organizing business and household consumers into smart networks and supplying them with smart meters.

For the complex energy management requirements, monitoring and projecting AVReporter Energy Management Software was deployed and integrated with measurement points for electricity, gas, heat and water through the communication network.

## BEST-IN-CLASS ENERGY MONITORING AND MANAGEMENT FEATURES

Their aims of implementing an energy management system were to improve power supply safety, optimize demand power and consumption and determine costs.

The results of the energy management system include:

- Quality problems resolved from 1-2 monthly power failures to zero internally and 1-2 annually caused by external problems.
- Demand power has been optimised with 10 % electricity saving
- The gas demand forecast optimised with 15 % saving
- ROI period between 6 months and 2 years
- Utilizing the measurement for certain products, production efficiency increase by 20 % and reduction of production scrap

While the production doubled over the years, due to the efficiently working energy management system, the increase of the gas and electric consumption is only one and a half times more.





# EASTRON LTD.

Application development and system integration

## Our products and services

- Business solutions (Workflow, BPM, business consulting, BPR, PRM)
- Intelligent, electronic queue management systems
- E-government and e-municipal solutions
- E-banking systems
- Project supporting and requirement management systems, executive information systems
- Networking solutions for industrial and office areas
- Energy engineering consulting for power plants
- Application development and mobile applications
- Systems and application integration, data consolidation/migration
- Personalized system support, system monitoring

“ IT is our business ”

## Our value proposition

Our key objective is to offer comprehensive IT support for customers whether they need to strengthen their market position or create efficient responses to business challenges.

We are known for our commitment to significant attention to detail in design and our scrupulous compliance to the highest quality specifications. Our solutions and products excel in reliability and unequalled flexibility.

Our young and talented 30 person team includes programmers, mathematicians, electrical and IT system engineers and IT specialists with different qualifications.

## Who we are

EASTRON Ltd. was founded in 1994. Over the last 20 years, we have provided our customers with tailor-made solutions in the field of queue, workflow and document management and monitoring and networking solutions for our industrial clients in the energy sector. Our professional partners come from many industries including banking, automotive, energy and software sectors.

We have a long list of distinguished customers including Microsoft, Advantys, Allianz Bank, Budapest Stock Exchange, Paks Nuclear Power Plant, Daimler Chrysler, GE Lighting and others.

We have established partnerships with multinational companies like CODRA, Advantys and have received the Best Distributor in the EMEA Region award from Honeywell.

## Our work

Our IT projects have been carried out in a number of countries including Germany, Jordan, Romania and Bulgaria.

EASTRON has implemented a quality assurance system compliant with the MSZ EN ISO 9001:2009 standard and acquired qualifications of levels ABOS 3 and 4T in nuclear safety.

www.eastron.hu



## INTELLIGENT, ELECTRONIC QUEUE MANAGEMENT SYSTEM

**The ETIQ queue management system is unique to its class with special features like:**

- Artificial Intelligence applied to increase efficiency and customer satisfaction
- ETIQ software is hardware independent – it can be operated by using existing devices
- ETIQ software can be used without hardware elements – to include smaller branches in corporate level statistics
- Using ETIQ's mobile application module, customers can book a ticket from anywhere



## COMPLEX EARTHQUAKE MONITORING SYSTEMS

**Natural or man-made disasters can have crippling outcomes for critical infrastructure like nuclear power plants, bridges, dams or reservoirs.**

Early warning systems use real-time data to assess non-visible damages. This type of information is critical in determining whether emergency measures must automatically be triggered to discontinue facility operations.



For twenty years, Eastron has been an active leader in earthquake monitoring and intervention systems. We partner with other technology partners to prevent man-made disasters.

# GRAVITY R&D

Recommendation Engine, Artificial Intelligence

## Our products and services

Gravity RECO chooses which content (products, news, ads) should appear for a particular customer, based on user behaviour, interest and keyword. Using Gravity means more relevant content for the user, higher KPIs such as CTR, Page Views, Ad Views and Conversion Increases. All these directly translates into more revenue for the client.

Gravity IMPRESS provides accurate, personal recommendations on all major IPTV, OTT and CATV platforms. The product supports all media content: VOD, SVOD, linear TV, catch-up, product, music and ads.

**“Personalization and recommendation engine provider for e-commerce and telecommunication businesses.”**

## Who we are

Gravity is a proven leader in the big data and recommendation engine industry. The company was founded by four scientists in 2007, after its predecessor, the „Ensemble Team” beat over 40,000 other big data teams and achieved the highest overall score in the Netflix Prize Competition, making better record than the other front-rank group, BellKor’s Pragmatic Chaos. The result was a 10+% recommendations quality growth in Netflix’s engine. Gravity has been awarded for its efficient solutions with further prestigious prizes, such as International Classified Media Association’s “Show Me the Money Prize” of 2012.

Today, with a headcount of 40 people and with offices in Tokyo, Budapest, San Jose, London and Moscow, the group comprises mostly software engineers and PhDs grounded in data mining, machine learning and collaborative filtering.

## Our work

- Platform flexible personalization solution;
- Designed to cope with product, user and system cold start problem & lack of product metadata;
- Adaptability to changing inventory, capturing lifecycle and ageing of contents, user preference tagging;
- Social network data;
- Personalized search capability;
- Flexible offline&online optimizer and multivariate testing framework;
- Big Data compliance: scalability and real time operation.

<http://www.gravityrd.com/>



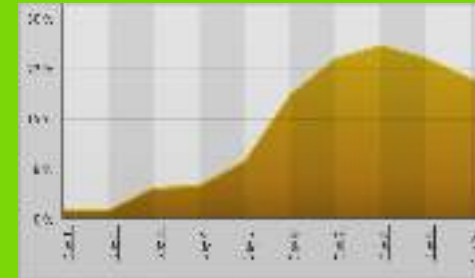
## SOCIAL AND DYNAMICALLY PERSONALISED - SHOPPING MADE EASIER

### BUSINESS PROFILE

- Social shopping site
- Founded in 2010
- The largest in its category in Hungary
- Over EUR 3,5M turnover in 2011

### RECOMMENDATION SYSTEM PERFORMANCE

- 22.37 % increase in total income from the website
- 11.38 % increase in total income from newsletter



### Social shopping and personalization: hand in hand

Social shopping means people coming together to strike a deal - so they have to collaborate to get it. This is the case with personalization too - Gravity uses collaborative filtering algorithms to better match product offers with personal taste. Since BonuszBrigad was already using micro-segmentation tools and a set of recommendation rules to personalize product offerings, Gravity had to prove efficiency in an extensive A/B test against this. After a long period of testing, the results were impressive enough for BonuszBrigad to decide on integrating Gravity’s outsourced recommendation solution - and even more, they decided to personalize product offers on all customer touchpoints.

### Cold start problem: An effective solution

Every e-commerce business has its own unique feature that makes recommendation implementations a challenge. In this case, the short lifecycle of product offers - usually only one week or less - became the biggest scientific challenge. This short lifecycle only lets the recommendation system collect enough user preference and behavior data just at the end of the product offer lifecycle. This means that the quality of recommendations and therefore conversion rates are comparatively low in the first few days. Gravity has been working hard to overcome the so called cold start problem. Performance data prove that channeling in more product and user meta data, and applying a custom set of algorithms is an effective way to overcome this issue.

### Multichannel personalization has synergy

Proceeding with integration, a deeper analysis of recommendation performance data showed that as soon as customers are faced with personalized offers on more and more channels, the efficiency of the system increases significantly - the efficiency increase of the whole is greater than the increase in the sum of each channel. This means that more personalized channels lead to an increasingly effective e-commerce ecosystem. This social shopping site has only one offer highlighted on the front page - and it’s personalized, so visitors will see different products there. The order of the side listing is also personalized, just like the newsletter content sent to users.

# HOLOGRAFIKA LTD.

Glasses-free true 3D visualization



## Our products and services

Our patented light-field technology provides a natural 3D view with a continuous horizontal motion parallax unlike other 3D visualisation solutions. Its current applications include:

- Monitor-type 3D displays for medical, security, control-room, entertainment and gaming industry professionals
- Collaborative large-scale 3D displaying systems for oil & gas exploration, CAD engineering design, telepresence, simulators or theme parks
- A glasses-free 3D cinema system, which was launched at ICT 2010 as a world premier, and in 2012 with a full-angle monitor-style display

Holografika seeks to develop home-entertainment applications.

**“Technology company with proprietary 3D glasses-free light-field visualisation technology, HoloVizio.”**

## Our value proposition

Market leader in light-field 3D displaying.

## Who we are

Holografika Ltd. is a technology company with proprietary 3D display technology and is also active in related 3D technologies (3D acquisition, compression, 3D applications) building a base for the future of 3D television.

## Our work

In 2005, the company entered the market with its HoloVizioTM displays which are sold in Europe, US, Japan and Korea.

Holografika has participated in significant EU R&D projects involving key industrial players and is a founding member of the 3D@Home consortium. These included the Ministry of Defence in Hungary and BAE Systems (UK) and different national and EU R&D projects.

The company was awarded by Red Herring Top 100 Europe in 2005, the ICT Best Exhibit Award in 2008, the EUREKA Innovation Award in 2012 and selected by WEF as a Technology Pioneer company since 2006.

HOLOGRAFIKA

<http://www.holografika.com/>

## NATURAL 3D DISPLAYING

The holographic 3D display system developed by Holografika overcomes the limitations of current 3D displays on the market. It reconstructs natural 3D images for multiple viewers within a reasonable field of view, allowing the viewer to walk around without restrictions.



This is a high-end solution that combines 3D displays with user benefits such as:

- Large field-of-view
- Continuous motion parallax, allowing "look-behind" capability
- No fixed-viewer positioning required, viewer can freely move in front of the screen
- No optical contradictions or side effects like discomfort or disorientation in longer, everyday use
- Stable 3D image which doesn't "jump" between views in the horizontal perspective
- No head-tracking necessary (no latency or accuracy problems)
- Ability to display any type of 3D information and to use different OpenGL based 3D software solutions
- 2D compatibility eliminating the need to switch between 2D and 3D view
- Full frame rate motion and real-time interactivity
- Good visibility and brightness under normal lighting conditions

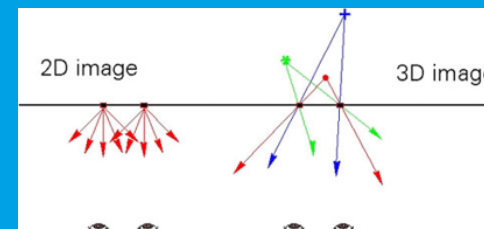
## TECHNOLOGY PRINCIPLES

Both monitor-style and HoloVizio large-scale systems introduce a fundamentally new comprehensive approach to the field of 3D displaying.

Since HoloVizio is not a stereoscopic or multi-view system it lacks most of the backlogs and drawbacks currently associated with 3D displays.

HoloVizio is not a purely holographic system that handles an enormous amount of redundant information. It is instead based on holographic geometric principles with a special focus on reconstructing the key elements of spatial vision. The pixels, or rather voxels of the holographic screen, emit light beams of different intensity and colour in various directions. A light-emitting surface composed of these voxels acts as a digital window or hologram, showing show 3D scenes.

The basic difference between a 2D and a 3D image shown below:



Each pixel (voxel) of the display able to emit light beams at a different colour and intensity to the various directions.

# AQUIS IT SERVICES

IT infrastructure services,  
application and hardware development

“Pay attention,  
understand,  
create,  
realize.”

## Our products and services

- IT INFRASTRUCTURE SERVICES: The scope of our services consist of surveying IT systems, designing systems and hardware
- APPLICATION DEVELOPMENT: AQUIS has nearly 15 years of experience in the field of software development. We custom design and develop applications on Microsoft, Oracle and Android platforms.
- HARDWARE DEVELOPMENT & PRODUCTION: For decades our company has been involved in the designing and production of IT hardware. Our success is recognised by numerous trade and excellence awards in domestic and export markets.
- EXPORT: AQUIS has initiated a conscious market development in the Middle Eastern European region, Balkans, Russia, Ex-Soviet states, Western Africa as well as the Middle East.

## Our value proposition

Custom made systems. Software development according to client needs.

## Who we are

AQUIS Innovo is a Hungarian company with stabile and strong positions on the IT market and a wide network of export connections. Providing our clients with all round services is our prime concern, making AQUIS today a significant service and IT solutions provider company. The majority of our turnover comes from services. AQUIS has a team of dedicated; highly qualified managers, skilful experts and numerous references with a network of renowned partners. All this represents a guarantee for success.

## Our work

As the fourth cornerstone of our strategy the company management places great emphasis on export: AQUIS has initiated a conscious market development in the Middle Eastern European region, Balkan countries, Russia, Ex-Soviet states, Western Africa as well as the Middle East. Our developed and manufactured systems are widely conquering in the banking market.

The conscious R+D are considerably emphasized in the life of our company. On one hand it is the tool for developing our own products and on the other it creates space for experimenting with new technologies which can provide us with introduction of new possibilities for our company portfolio. For R+D we continuously spend our own resources, furthermore we work on several EU tenders thus ensuring the influx of resources for our further innovative activities.

## References

MÁV-Start, British American Tobacco, Hungarian National Bank, Raif-feisen, K&H Bank, Obi, Metro, Invitel, Vodafone

[www.aquis.hu](http://www.aquis.hu)

**AQUIS**  
INNOVO

## Q-TAB

The latest innovation in the AQUIS generation of queue management systems is called QTAB. QTAB is a modern and discrete, tablet-based foreground solution.

Each of its modules (totem, hardware counter, central display and the operator's panel) run on their own operating systems.

QTAB was born of a need to create a complex system with low maintenance demands, minimizing the number of components involved.



## TICKETEZ928

The Ticket EZ 928 ticket vending machine (TVM) has been developed to meet the widest possible range of users' needs. It is suitable for long-distance and local fixed-rail and road transport services.

Ticket EZ 928 is operated by a highly-reliable industrial PC with no moving parts. The Ticket EZ 928 can be equipped with two printers capable of printing various ticket types (plain thermal paper or smart paper) and can issue plastic passes. The Ticket EZ 928 is a unique solution to ticket-vendor needs. It is capable of handling up to 6 paper rolls of different sizes and properties and can issue plastic-based RFID cards, magnetic stripe or chip-equipped travel passes. Travel fees can be paid with banknotes and coins, mobile phones, magnetic strips and chip cards, as well as contactless cards. In case of overpayment, the Ticket EZ 928 returns the change in banknotes or coins and it is capable of renewing and issuing travel passes.



The EZ 928 features a stretched LCD screen where advertisements or other content can be run. Due to the low power consumption the EZ 928 operates economically and guarantees long-term return on investment.



# WM SYSTEMS LLC

IOT/M2M communication solutions

## Our products and services

- Smart metering communication devices for water, gas and electricity meter reading
- Alarm and Fire Alarm signal transmitting
- E-health & elderly care
- Lone worker's protection
- Automated vehicle logistic & navigation system
- Personal and asset tracking
- Intelligent sub-metering and displaying system
- Designing industrial data communication equipment
- Telemetry services

**“Complete M2M services for Metering, Security, Tracking and Telemetry applications.”**

## Our value proposition

With a diverse portfolio, we can offer all-inclusive and complete solutions to our Clients and prospective Partners with applications for Metering, Security, Tracking and Telemetry.

As an engineering company with a deep knowledge and experience in the industrial data communication field, we design and produce communication devices for the latest IP and mobile networks.

Our M2M server solution means centralized collection, processing and evaluation of the data communication between devices. High availability, secure data storage, wide range of monitoring & management possibilities and a dynamic user interfaces make this product solution attractive to our Customers. The M2M-based server specifically designed for our devices can display – as a service – the required and evaluated data, information, measurements, graphs, statistics and reports, thus giving the service providers overall data/device/user management information.

## Who we are

WM Systems LLC. was established in 2002 and has offices in Hungary, Romania and Slovakia.

Our activities are based on the IOT/M2M (machine-to-machine) industry, serving our Partners with our complete data transmission solutions built for the network of the mobile and internet operators.

Ever since its foundation, our company has been developing our own hardware and software, and creating M2M-based product families with the central communication and data collection M2M-server platform to be able to offer complete M2M services.

## Our work

We offer solutions through 43 different products for 8 M2M fields. Worldwide, more than 100,000 machines can communicate through our devices, and this number is continuously increasing.

Development, sales and services are performed in accordance with ISO 9001, IT operation comply with ISO 27001. Our company has a Bisnode AAA qualification

[www.m2mserver.com](http://www.m2mserver.com)



## READOUT OF 5000 WATER AND ELECTRICITY METERS IN APARTMENT BUILDINGS

Within the Intelligent sub-metering and displaying system, the wired and the wireless M-Bus radio signals of the wireless municipal consumption meters are received by the Mobile Data Collecting Center specifically prepared for data collection. Using the most up-to-date mobile data transmission technology, the data collector forwards the metering results in a concentrated way to our M2M server.



Our solution provides a wealth of benefits compared to the traditional reading systems. The TIAM® system – meeting the requirements of our age – enables the continuous improvement, customization and the complete reconstruction of the system without significant development. Apart from the meter data, the system is able to collect, process and display data from the following systems:

- collecting data from intrusion protection devices (safety & security alarm centers, or motion sensors, opening sensors)
- collecting data from smoke, CO detectors (alarms and error signals)
- collecting data (alarms and error signals) from personal protection panic button (SOS signal, fall detection)

All the above mentioned alerts can be forwarded to a security remote surveillance center and/or as an alarm to the smartphone of the tenants.

## AUTOMATED VEHICLE LOGISTIC AND NAVIGATION SYSTEM AT AN ELECTRICITY DISTRIBUTION COMPANY

The goal was to replace human dispatchers at a company with an automatic dispatching solution which can optimize work processes and vehicle routes.

We implemented an overall GPS tracking and logistical system for service cars with a work organizer for car drivers. Our incident management module helps register incoming calls and problems as a ticket.



The service supervisor delegates the nearest service vehicle team to assign a job to the PNA device (navigation device) in the car. The tracker connected to the PNA helps the driver receive the GPS coordinates related to the received task on PNA, then automatically locates the address and identifies the object or location in the service area. The driver approaches the site (PNA reports to the center) and performs the service task. At the end of the process, the driver fills out a form, and the ticket is closed.