



Hungarian expertise:
The potential of
tradition & innovation

***Agricultural and food
technologies***



COMPANY CATALOGUE

World class products & know-how
from Central Europe

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Dear Partner,

Hungary is a country of ten million, established among the first European States more than a thousand years ago in the heart of the European continent.

Our rich, albeit turbulent history has taught us over the centuries how to best exploit our unique geographic and cultural qualities, and to always strive to achieve the seemingly impossible: this heritage, coupled with a skillful and entrepreneurial spirit, as well as a deep inclination for innovation has been the foundation of our subsistence, whilst it has also produced a wide scale of cutting edge products, expertise and technological solutions in a number of fields ranging from agriculture to industry.

This booklet provides a brief overview of some of the very best of this offer that we hereby bring to your kind attention. The Hungarian National Trading House represents the leading companies operating in the presented sectors on behalf of the Hungarian Government and is at your disposal should you have interest in any aspect of the following companies and technologies.

LEVENTE MAGYAR

Minister of State for Economic Diplomacy
Government of Hungary

AGRICULTURAL TECHNOLOGIES



OPTIGÉP LTD.

Harvesting equipment

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. dominates 98 % of the Hungarian market 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 daily 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

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.

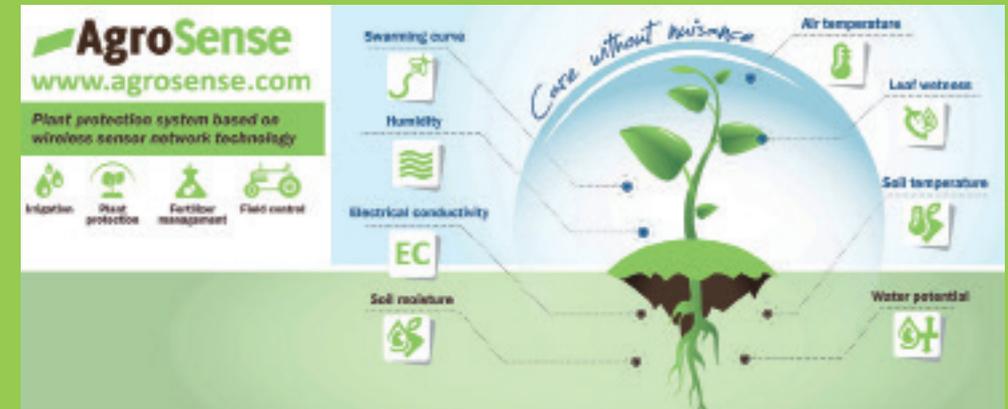
Our systems are supported by research conducted by one of the leading agricultural universities, the University of Szeged.

Our company is certified by ISO9001 and ISO14001 and our products are CE compliant. We hold patents in radio interference and sensor applications.

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.

www.agrosense.com
www.grainpatrol.com

unicomp

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

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



HIGHER YIELDS



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



ORGANIC & BIODEGRADABLE

plant root systems. 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.

www.waterandsoil.eu

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WATER & SOIL WATER RETAINER HOW IT WORKS

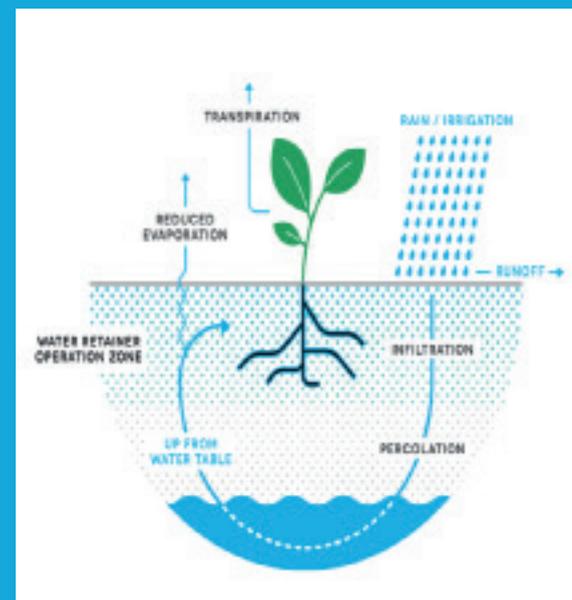
Water retainer is a water- based organic lotion applied to the ground by spraying or irrigation.

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.



ÖKO LOGIKA LTD.

Organic Construction Material and Fertilizers

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.

www.okologika.hu



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 130m².

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

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**



FOOD PROCESSING TECHNOLOGIES



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.

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.

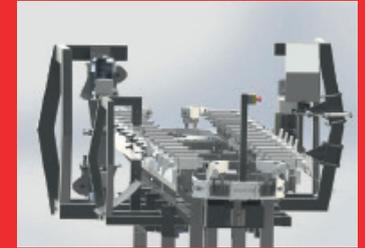
www.sampo.hu



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



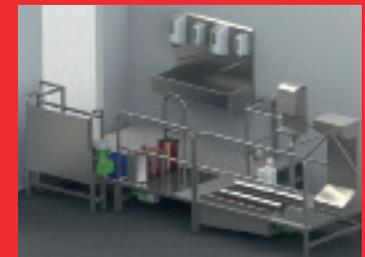
Slaughterhouse and meat processing equipment

- 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.

www.korax.hu

KORAX

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



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

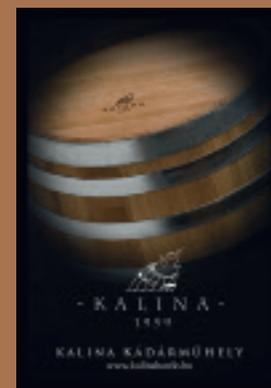
The most beloved and popular wine barrel in the world due to its longish, cigar shape which exposes the wine to a larger wooden surface during maturing.



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 developer 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



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



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 warranty 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 manufactures brewing equipment and provides 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.

www.ziptechnologies.eu

ZIP Technologies
COMPLETE BREWING SOLUTIONS

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 equipment includes:

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







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