



*Southwest Hungarian*  
**ENGINEERING CLUSTER**

# PORTFOLIO



# CONTENT

South West Hungarian Engineering Cluster .....	3
Profiles Of Cluster Members .....	5
Chamber of Commerce and Industry of Pécs-Baranya .....	9
AGS Engineering Office Ltd. ....	11
AGS Tool Service Ltd. ....	13
Aquacut Ltd. ....	15
Asinox Ltd. ....	17
Büttner és Társai Szerszámelemgyártó és Kereskedelmi Ltd. ....	19
Cabtec Ltd. ....	21
CADSOL Ltd. ....	23
Dovi-Plast Ltd. ....	25
Ferrovik Ltd. ....	27
Forsz Szerszámgépgyártó és Élező Ltd. ....	29
Fórum-Plussz Ltd. ....	31
Gépszer Ltd. ....	33
GLT Delta Épületgépész Ltd. ....	35
Hidrofilt Ltd. ....	37
Hidrot Ltd. ....	39
Kaposbrezon Ltd. ....	41
Kaposvári Villamossági Gyár Ltd. ....	43
Két Salamon Lp. ....	45
Kiss Épületgépész Ltd. ....	47
Klimatrióplussz Ltd. ....	49
Knipl Ltd. ....	51
Kontakt-Elektro Ltd. ....	53
Kontakt-Engineering Ltd. ....	55
Körber Hungaria Gépgyártó Ltd. ....	57
Kresz & Fiedler Ltd. ....	59
Lakics Gépgyártó Ltd. ....	61
Loschán Ltd. ....	63
Matro Ltd. ....	65
Max Blank Hungaria Ltd. ....	67
Metal-Work 2003 Ltd. ....	69
MIG-TIG Ipari Szolgáltató, Kereskedelmi és Tanácsadó Ltd. ....	71
Minorits Ltd. ....	73
University of Pécs Faculty of Engineering and Information Technology .....	75
Sampo Élelmiszeripari Gépgyártó Ltd. ....	77
Schneider Fémipari Ltd. ....	79
Seres Gépipari és Kereskedelmi Ltd. ....	81
Solar FM Ltd. ....	83
Somapak Ltd. ....	85
Spinner Hungaria Ltd. ....	87
Spitzer Silo Pécs Ltd. ....	89
Stang Bádogos Ltd. ....	91
Strauss Metal Ltd. ....	93
Szabó Fogaskerékgyártó Ltd. ....	95
Thermo-Per-Coop Ltd. ....	97
Titan Ltd. ....	99
Vmax-Tec Ltd. ....	101
Ziehl-Abegg Ltd. ....	103
Contacts of South West Hungarian Engineering Cluster .....	105

# SOUTHWEST HUNGARIAN ENGINEERING CLUSTER

The Southwest Hungarian Engineering Cluster was established in March 2011 thus providing an organizational background to support coordinated action and implementation of development ideas, the determining engineering organization of the region.

The Cluster that is authorized to use Accredited Cluster title, owner of the European Cluster Excellence Initiative Silver Label is the biggest organization of this type in the region both in respect of revenues (more than 500 M EUR) and size of the Cluster members with 6000 employees.

At present, the cluster consists of 49 members from the Southwest Hungarian region having the following major objectives:

Business Development:

- Market-based collaboration
- Strengthening the cluster internal market, common capacity utilization
- Joint procurement of energy, services and materials and others
- Dynamizing the innovative activity, developing common products

Training Development:

- Developing vocational training and dual tertiary education in mechanical engineering

Representation of interest, marketing, networking:

- Establishing common, powerful lobby activity
- Sectoral and cluster networking, establishment of professional collaborations
- Operating the platform for experience and information exchange
- Sectoral and cluster networking, establishment of professional collaborations
- Common domestic and international presence and representation

Cluster members have a highly heterogeneous, specialised activity range if compared to each other they represent a different market segments.

Beside others the following products and services can be obtained from the cluster members:

- Installation and maintenance of complete technological mechanical system, high pressure water technology
- Manufacture of components produced with cutting
- Manufacture of engine, generator houses and ventilators
- Design, manufacture and on site installation of electric automation devices
- Automation of industrial manufacturing technologies and facilities: electric and mechanical design, machine manufacturing, installation, commissioning, programming (PLC, robot), remote control.
- Development, design and production of electronic controllers and devices.
- Manufacture and maintenance of aluminium silo vehicles



## SOUTHWEST HUNGARIAN ENGINEERING CLUSTER

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e-mail: [info@ddgk.hu](mailto:info@ddgk.hu)

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

- Design, manufacture, processing and commissioning cutting technology of poultry and meat processing plants
- Manufacture and recondition of superstructure of communal vehicles including hydraulic equipment and machine service
- Distribution of welding materials, welding machines and industrial machines
- Manufacture of custom-tailored steel structures, machinery components, and construction fitter products
- Design, instalment and maintenance of complex HVAC systems, heat pumps
- Manufacturing of mechanical safety products and devices
- Trainings, custom-tailored solutions in R&D engineering services, innovations services, trade developments, cluster-development and management
- Special alloy steels and tool materials trade, production and sale of mould bases, engineering and production of pre-and furtherfabricated tool plates
- Manufacture of high quality, environmental eco stove, fireplace and firebox
- Gear manufacturing, producing geared parts and machining
- Development and installation of air conditioning and ventilation technology equipment, industrial clean room technologies, moist-controlled food storages, ventilation of low plate count rooms and surgery rooms
- General HVAC and plumbing services: ventilation, industrial cooling, VRV / VRF, boiler houses, energy supply systems and stainless-steel piping systems
- Designing, prefabrication of building engineering piping systems, sprinkler fire extinguisher systems, boiler rooms, heating and cooling centers and mechanical spaces, 3D laser scanning, BIM 3D design
- Plastic part production, multi component injection molding, cable over molding, cable processing
- Plastic product manufacturing, laser welding, laser engraving
- Design and manufacture of standard or custom-made cutting tools from tungsten carbide and high speed steel, re-sharpening, maintenance and coating of all kind of cutting tools
- Hot-dip zinc planting, production of hot-dip zinc plated connecting elements, electroplating, powder coating, painting with traditional process
- Steel casting in unique and small series, manual and mechanical bentonite sad casting and shell injection molding
- Production and distribution of communal and road maintenance equipments, mounted on tractors and tool carriers such as flail mowers, sweepers, washing equipments, branch cutters, snow ploughs, salt spreaders, floating workboats
- Manufacture of low and medium voltage electrical appliances, equipments.
- Manufacture of sliding ring housings, fan cranes, crane elements, bearing plates, press plates, robotic stands, robotic arms, quick coupling heads, assembly units on the ground and the production of chain conveyors and machines
- Manufacture of packaging machinery
- Design, manufacture, installation, commissioning, maintenance, remote monitoring, operation, supply of spare parts and chemicals for drinking water, industrial process water and industrial waste water treatment systems. Design, manufacture and repair of injection moulding tools
- Design and manufacture of glass-steel combination buildings, building elements, lift shafts, stainless steel elements for biogas silos, stair towers, machinery for composting technologies, car rotating discs
- Cable harness manufacturing, custom cable assembly for automotive, medical, high tech and other industries
- Manufacture of tanks, pressure vessels
- Manufacture of individual components for coaxial connectors and complete assemblies
- Tin roofing, flat roof insulation, facade cladding, tin roofing products and accessories.



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# PROFILES OF CLUSTER MEMBERS

## AGS Mérnökiroda Ltd.

Tool design and manufacturing, product design (Solidworks, NX), DFM manufacturability and DOE analysis, mould-flow simulation prototype tooling, plastic 3D printing and 3D scanning of parts.

phone: +36 [30] 587 7307 · [www.agsengineer.com](http://www.agsengineer.com)

## AGS Tool Service Ltd.

Tool design and manufacturing, spare parts manufacturing, tool repair, tool maintenance and custom machined parts production.

phone: +36 [30] 951 6484 · [www.agstoolservice.com](http://www.agstoolservice.com)

## Aquacut Ltd.

Manufacture of steel structures and machine parts for the mechanical engineering industry in small and medium series. Waterjet cutting, laser cutting, edge bending, welding, CNC machining, even subcontracting.

phone: +36 [20] 960-6309 · [www.aquacut.hu](http://www.aquacut.hu)

## Asinox Ltd.

Design and manufacture of custom machinery: glass-steel combination buildings, building elements, elevator shafts, stainless steel elements for biogas silos, stair towers, machinery for composting technologies, car rotating discs.

phone: +36 [30] 773-9618 · [www.asinox.hu](http://www.asinox.hu)

## Büttner Ltd.

Special alloy steels and tool materials trade, production and sale of mould bases, engineering and production of pre- and further-fabricated tool plates. 3D metal printing, heat treatment, CVD coating.

phone: +36 [82] 553-970 · [www.buttner.hu](http://www.buttner.hu)

## CabTec Ltd.

Production of cable harnesses for the automotive, medical, high-tech and other industries.

phone: +36 [74] 889-111 · [www.cabtec.eu](http://www.cabtec.eu)

## CADSOL Ltd.

Purpose built machine design and custom machine manufacturing, automation. Design, manufacture and commissioning of robotic cells. Rental of collaborative robots. CNC machining, contract manufacturing of high added value parts.

phone: +36 [72] 780-243 · [www.cadsol.hu](http://www.cadsol.hu)

## Dovi-Plast Ltd.

Production of plastic injection moulding tools, cutting-punching, aluminium injection moulding, extrusion and coquille tools.

phone: +36 [82] 510-828 · [www.doviplast.hu](http://www.doviplast.hu)

## Ferrovok Ltd.

Manufacturing of steel frames and structure, surface treatment through hot-dip galvanizing and electroplating, manufacturing of non-standard, galvanized fasteners.

phone: +36 [82] 598-900 · [www.ferrovok.hu](http://www.ferrovok.hu)

## Forsz Ltd.

Tool sharpening, tool manufacturing in individual and standard designs.

phone: +36 [72] 513-971 · [www.forszkt.hu](http://www.forszkt.hu)

## Fórum-Plussz Ltd.

Toolmaking: design, manufacture, pressing, maintenance and measuring. Component manufacturing: CNC milling, CNC wire cutting, CNC turning, grinding, heat treatment.

phone: +36 [85] 554-294 · [www.forumplussz.hu](http://www.forumplussz.hu)

## Gépszer Ltd.

Manufacture, installation and maintenance of complete technological, engineering systems and components.

phone: +36 [30] 936-3512 · [www.gepszer.hu](http://www.gepszer.hu)

## GLT Delta Épületgépész Ltd.

Designing, prefabricating and assembling heat and cooling centers, boiler rooms, and custom engineering spaces.

phone: +36 [72] 516-460 · [www.glt.hu](http://www.glt.hu)

## Hidrofilt Ltd.

Design, manufacture, installation, commissioning, maintenance, operation for drinking water, industrial process water and industrial waste water treatment systems.

phone: +36 [93] 536-500 · [www.hidrofilt.hu](http://www.hidrofilt.hu)

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[www.linkedin.com/company/del-dunantuli-gepipari-klasster/](https://www.linkedin.com/company/del-dunantuli-gepipari-klasster/)



# PROFILES OF CLUSTER MEMBERS

<b>Hidrot Ltd.</b> <p>Production and distribution of communal and road maintenance equipments, mounted on tractors: flail mowers, sweepers, snow ploughs, salt spreaders, floating workboats.</p> <p>phone: +36 [72] 552-340 · <a href="http://www.hidrot.hu">www.hidrot.hu</a></p>	<b>KONTAKT-Elektro Ltd.</b> <p>Automation of industrial manufacturing technologies and facilities: electric and mechanical design, machine manufacturing, installation, commissioning, programming (PLC, robot).</p> <p>phone: +36 [72] 516-067 · <a href="http://www.kontakt-elektro.hu">www.kontakt-elektro.hu</a></p>
<b>Kaposbrezon Ltd.</b> <p>They are mainly specialized in the production of plastic injection molding tools, but they also produce die punching, aluminum injection molding, extruder, die-casting tools.</p> <p>phone: +36 [82] 510-828, +36 [20] 915-1404 · <a href="http://www.kaposbrezon.hu">www.kaposbrezon.hu</a></p>	<b>KONTAKT-Engineering Ltd.</b> <p>Custom engineering, automation, industrial glueing technologies. Design, manufacture and installation of robot cells.</p> <p>phone: +36 [72] 315-577 · <a href="http://www.kontakt-engineering.hu">www.kontakt-engineering.hu</a></p>
<b>Kaposvári Villamossági Gyár Ltd.</b> <p>Manufacture of low and medium voltage electrical appliances, equipments. They are main suppliers to the Hungarian electricity distributor companies.</p> <p>phone: +36 [82] 508-200 · <a href="http://www.kvgy.hu">www.kvgy.hu</a></p>	<b>Körber Hungária Gépgyártó Ltd.</b> <p>Machine design, machining, sheet metal working and assembly, development of complete machines.</p> <p>phone: +36 [72] 505-200 · <a href="http://www.koerber.hu">www.koerber.hu</a></p>
<b>Két Salamon Lp.</b> <p>Laser cutting, 3D CNC plasma cutting, laser and robotic welding, CNC edge bending, plate rolling and cutting, tank fabrication, metal structure fabrication, carriage house fabrication and assembly.</p> <p>phone: +36 [30] 997 40 35 · <a href="http://www.ketsalamon.hu">www.ketsalamon.hu</a></p>	<b>Kresz &amp; Fiedler Ltd.</b> <p>Plastic part production, multi component injection molding, mold making, part assembly. Maintenance and repair of injection molds, laser welding and mold making partial operations in lease work.</p> <p>phone: +36 [72] 566-730 · <a href="http://www.kresz.hu">www.kresz.hu</a></p>
<b>Kiss Épületgépész Ltd.</b> <p>Building engineering projects, process installation, fire water and fire extinguishing systems, utilities, civil engineering and road construction.</p> <p>phone: +36 [74] 471-143 · <a href="http://www.kissepuletgepeszktft.hu">www.kissepuletgepeszktft.hu</a></p>	<b>Lakics Gépgyártó Ltd.</b> <p>Active in the field of machine manufacturing using fitting-welding and machining technologies. Its main profile is manufacturing of frames for motors and generators.</p> <p>phone: +36 [72] 581-310 · <a href="http://www.lakics.hu">www.lakics.hu</a></p>
<b>Klímatríóplussz Ltd.</b> <p>Design, installment and maintenance of complex HVAC systems.</p> <p>phone: +36 [72] 512-240 · <a href="http://www.klimatrio.hu">www.klimatrio.hu</a></p>	<b>Loschán Ltd.</b> <p>Manufacture of metal structures, machine parts, steel structures and sheet metal parts, locksmithery, manufacture of concrete moulds.</p> <p>phone: +36 [69] 557-110 · <a href="http://www.loschan.hu">www.loschan.hu</a></p>
<b>Knipl Ltd.</b> <p>Planning, production and installation of surface treatment plants, wet painting lines, complete cathaphoretic dip coating (KTL) and electrostatic powder coating lines.</p> <p>phone: +36 [74] 550 540 · <a href="http://www.knipl.com">www.knipl.com</a></p>	<b>Matro Ltd.</b> <p>Manufacture of machined components for the engineering, passenger car and commercial vehicle industries. Design and manufacture of turning tool holders, surface treatment.</p> <p>phone: +36 [72] 548-110 · <a href="http://www.matro.hu">www.matro.hu</a></p>

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[www.linkedin.com/company/del-dunantuli-gepipari-klasster/](https://www.linkedin.com/company/del-dunantuli-gepipari-klasster/)



# PROFILES OF CLUSTER MEMBERS

<b>Max Blank Hungária Ltd.</b> <p>Manufacture of high quality, environmental eco stove, fireplace and firebox.</p> <p>phone: +36 [69] 569-811 · <a href="http://www.maxblank.com">www.maxblank.com</a></p>	<b>Schneider Fémipari Ltd.</b> <p>Manufacture and installation of steel building structures, production of railings, window grilles, fences, galvanized, painted and stainless steel, production of stainless steel and aluminium structures, CNC sheet metal working, machining, CNC tube bending and welding.</p> <p>phone: +36 [72] 465-583 · <a href="http://www.schneiderfem.hu">www.schneiderfem.hu</a></p>
<b>Metal-Work 2003 Ltd.</b> <p>Their main activities are tool design and manufacturing, CNC milling, wire cutting, grinding and component manufacturing.</p> <p>phone: +36 [74] 450-903, +36 [30] 2270274 · <a href="http://www.metal-work2003.hu">www.metal-work2003.hu</a></p>	<b>Seres Gépipari és Kereskedelmi Ltd.</b> <p>Manufacture and recondition of superstructure of communal vehicles, hydraulic equipment and machine service.</p> <p>phone: +36 [72] 526-666 · <a href="http://www.seres.hu">www.seres.hu</a></p>
<b>„MIG-TIG” Ltd.</b> <p>Sale of welding machines, distribution of industrial gases, sale of safety equipment, technical consulting and training, welding machine service.</p> <p>phone: +36 [72] 486-328 · <a href="http://www.migtig.hu">www.migtig.hu</a></p>	<b>Solar FM Ltd.</b> <p>Complete design, installation, operation and maintenance of solar parks. Sale, operation and servicing of charging stations for electric cars. Fiber laser cutting technology (flat laser) and Co2 laser cutting technology (tube laser).</p> <p>phone: +36 [30] 600-7499, +36 [30] 499-5653 · <a href="http://www.solarfm.hu">www.solarfm.hu</a></p>
<b>Minorits Gépgyártó Ltd.</b> <p>Manufacture of sliding ring housings, fan cranes, crane elements, bearing plates, press plates, robotic stands, robotic arms, assembly units and the production of chain conveyors and machines.</p> <p>phone: +36 [20] 269-2297 · <a href="http://www.minorits.hu">www.minorits.hu</a></p>	<b>SOMAPAK Ltd.</b> <p>Designer and manufacturer of packaging machines, custommade machines. Manufacturing mixers and blenders. CNC (milling, turning, sheet-metal technology, sheet and tube laser cutting).</p> <p>phone: +36 [72] 325-300 · <a href="http://www.somapak.hu">www.somapak.hu</a></p>
<b>Chamber of Commerce and Industry of Pécs-Baranya</b> <p>Enterprise development, cluster development and management, services in the field of innovation, trade development and vocational training.</p> <p>phone: +36 [72] 507-148 · <a href="http://www.pbkik.hu">www.pbkik.hu</a></p>	<b>Spinner Hungária Ltd.</b> <p>Manufacture of individual components for coaxial connectors and complete assemblies.</p> <p>phone: +36 (74) 505-888 · <a href="http://www.spinner-group.com">www.spinner-group.com</a></p>
<b>Faculty of Engineering and Information Technology - University of Pécs</b> <p>Nine BSc majors, technical trainings, short term postgraduate specializations, taking part in R+D projects.</p> <p>phone: +36 [72] 503-650 / 22808 · <a href="http://www.mik.pte.hu">www.mik.pte.hu</a></p>	<b>Spitzer Silo Pécs Ltd.</b> <p>Manufacturing and service features for dry bulk carriers made from aluminum for the transporting of pulverized and granulated materials: food stuff, animal feed, and hazardous goods.</p> <p>phone: +36 [72] 552-380 · <a href="http://www.spitzer-silo.com">www.spitzer-silo.com</a></p>
<b>SAMPO Élelmiszeripari Gépgyártó Ltd.</b> <p>Food-processing equipment, design, manufacture and installation of the complete technology for poultry slaughter plants (500 to 10,000 pcs/hour).</p> <p>phone: +36 [72] 564-400 · <a href="http://www.sampo.hu">www.sampo.hu</a></p>	<b>Stang Bádogos Ltd.</b> <p>Tin roofing, flat roof insulation, facade cladding, tin roofing products and accessories, modern machine prefabricated sheet metal roofing, scaled roofing and small element sheet metal roofing.</p> <p>phone: +36 [69] 561-505 · <a href="http://www.stangbadogos.hu">www.stangbadogos.hu</a></p>

## PROFILES OF CLUSTER MEMBERS

<b>Strauss Metal Ltd.</b> Automats, cash machines, armored safes, manufacture of mechanical safety products and devices, metal sheet working, component manufacturing.  <i>phone: +36 [72] 313-316 · <a href="http://www.straussmetal.hu">www.straussmetal.hu</a></i>	
<b>Szabó Fogaskerékgyártó Ltd.</b> Specialized in gear manufacturing, producing geared parts and machining: spur gears, straight bevel gears, helical gears, worm gears, geared axis, planetary gears, spline shafts, gear boxes.  <i>phone: +36 [82] 310-204 · <a href="http://www.szabofogaskerek.hu">www.szabofogaskerek.hu</a></i>	
<b>Thermo-Per-Coop Ltd.</b> Manufacture and trade of building tinsmith products, industrial thermal and acoustic insulation.  <i>phone: +36 [72] 213-290 · <a href="http://www.thermopercoop.hu">www.thermopercoop.hu</a></i>	
<b>Titán Ltd.</b> Laser cutting, plasma cutting, design, fabrication of steel structures, installation, complete execution of investment works, specialised specialised material handling equipment, packing and packaging complete assembly of packaging systems.  <i>phone: +36 [20] 232-5285 · <a href="http://www.titankft.hu">www.titankft.hu</a></i>	
<b>Vmax-Tec Ltd.</b> Cutting of individual, small and medium series machine parts with high precision CNC milling and turning machines.  <i>phone: +36 [82] 510-843 · <a href="http://www.vmax-tec.hu">www.vmax-tec.hu</a></i>	
<b>ZIEHL-ABEGG Ltd.</b> Production of fan parts, including the winding of electric motor stator parts, production of fan guards, casting of aluminium parts.  <i>phone: +36 [85] 509-100 · <a href="http://www.zamarcali.hu">www.zamarcali.hu</a></i>	

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[www.facebook.com/del.dunantuli.gepipari.klaszter](https://www.facebook.com/del.dunantuli.gepipari.klaszter)  
[www.linkedin.com/company/del-dunantuli-gepipari-klasster/](https://www.linkedin.com/company/del-dunantuli-gepipari-klasster/)



# CHAMBER OF COMMERCE AND INDUSTRY OF PÉCS-BARANYA

## Profile:

The management organization of the South West Hungarian Engineering Cluster is the Chamber of Commerce and Industry of Pécs-Baranya. The chamber, besides being the voice of business in Baranya county, provides its members with the best possible services and professional advice.

It plays a leading role in the region in creating a business and economic environment in which its members prosper and can compete effectively domestically and on the world market.

On the one hand, the aim of the chamber is to provide a wide range of support to developing family companies in the SME sector, that are already working here and are strongly connected to the local ecosystem, and to involve the government, local governments and the university in this work. The development of the local supplier and business ecosystem is of key importance for these successful companies. On the other hand - in addition to activating the existing development potential for the county - it is also a task of the chamber to attract knowledge-intensive industrial investments employing between 25 and 500 people. One of the main tools of organization of economy is the enhancement of local collaborations along the exploration and identification of entrepreneurial competencies.

## Products, Services:

- 31 expert staff members are available to help companies achieve their business goals in 3 foreign languages (English, German, French).
- The services are provided in Baranya county's 5 city offices.
- With the continuous professional cooperation of 648 voluntary members of the chamber, they actively participate in the realization of the economic and social goals of the region.
- 23 000 businesses in the county are provided with access to up-to-date economic information and advice.
- Every year, 1 000 to 3 000 entrepreneurs take part in the online events and trainings.
- Over the past 20 years, the Chamber has participated in nearly 100 internationally implemented projects to develop key sectors of the economy.
- The Széchenyi Card Program offers a solution to financial problems.



## CHAMBER OF COMMERCE AND INDUSTRY OF PÉCS-BARANYA

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



- The Enterprise Europe Network (EEN) is the European Union's only and at the same time the largest business development network in the world. EEN - launched by the European Commission - offers high quality services for the growth of local small and medium-sized enterprises (SMEs) in all EU Member States and beyond. The chamber is the regional representative of EEN in South West Hungary. It can connect with companies, institutions and organizations in more than 60 countries of the network, and uses the expertise of 3 000 colleagues in 600 offices to obtain market information and deliver it to its destination.
- Sharing the knowledge and experience accumulated in the member companies is a strategic goal of the chamber. Therefore, in order to strengthen the business community and improve its competitiveness, the chamber organizes trainings.
- More than 1 000 children take part in the chamber's career orientation events each year.
- The chamber has been engaged in cluster development activities for many years, mainly in the fields of mechanical engineering and construction, and supports clusters in the fields of applied earth sciences, biotechnology, information and communication technology, creative industries and gastronomy.
- Within the framework of the EU-funded CNCB cluster development project, a number of cooperation agreements have been concluded, mainly with clusters operating in South West Hungary, with the aim of strengthening the economic and innovation potential of the region. The clusters and cluster members get international visibility throughout the chamber's EU projects, training and business opportunities. The use of innovation results, the development of export capacity and joint marketing activities are implemented within the framework of cooperation.
- The chamber uses various databases to provide access to information during business, technology and research & development partner searches.
- The chamber uses international innovation management assessment tools - IMP<sup>3</sup>ROVE and Innovation Health Check - as benchmarking options.
- The chamber issues certificates of origin, commercial documents and other certificates required for the export of goods to exporting companies.
- The Intellectual Property Protection Information Point in the chamber provides information and professional advice on intellectual property rights in more than a hundred cases annually.
- More than 100 business representatives work voluntarily for the prosperity of the solidary business community.

The chamber is open to new opportunities and is constantly looking for chances to expand its network of contacts.

**Year of establishment:** 1881

**Number of employees:** 31



#### CHAMBER OF COMMERCE AND INDUSTRY OF PÉCS-BARANYA

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[www.facebook.com/pecsikamara](http://www.facebook.com/pecsikamara), [www.youtube.com/pecsikamara](http://www.youtube.com/pecsikamara)

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

# AGS ENGINEERING OFFICE LTD.

## Profile:

The AGS Engineering Office was established in 2017. The young, professionally trained team mainly manufactures plastic injection moulding tools. The company's strategy is to combine the advantages of European and Asian mould manufacturers and with a hybrid solution to produce high added value injection moulding tools at competitive prices and short lead times, helping Hungarian injection moulding companies to win more plastic injection moulding projects in the V4 region.

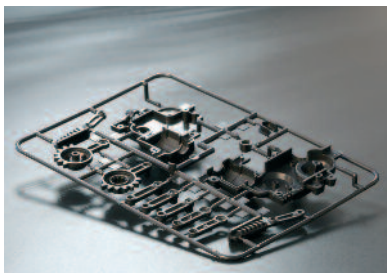
The company manufactures 120-160 new injection moulds per year, with its current capacity to simultaneously process up to 20-25 moulds per project. Its customer portfolio includes customers from the automotive, medical and electronics industries.

## Products, Services:

- Tool design and manufacturing
- Product design (Solidworks, NX)
- DFM manufacturability analysis
- Mould-flow simulation
- DOE analysis
- Prototype mould manufacturing
- Plastic 3D printing
- 3D scanning of parts

## Know-how and technologies:

- Product design (Solidworks, NX)
- Tool design (Solidworks, NX)
- DFM, MF and manufacturability analysis (Moldex 3D)
- 3D printing (SLA 3D printer)
- GOM ATOS 3D scanner





**Year of establishment:** 2017

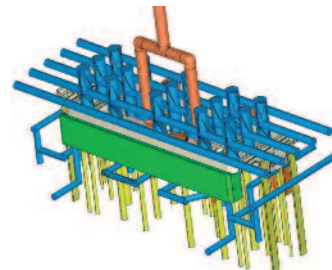
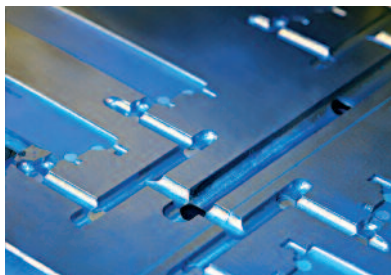
**Number of employees:** 15

**Quality management system:** ISO9001:2015, ISO14001:2015

**Annual turnover:** 4,48 M EUR

**Customers, references:**

- Metálplaszt,
- Cascade,
- Plasticart,
- Ratiolab,
- Dana,
- Duroset,
- Clarios,
- AQ Anton,
- Wahl,
- Pepperl,
- Videoton Plastics,
- Plasmatic,
- IMG Bohemia,
- Plasticor,
- Sluzba Nitra,
- Cégan,
- BTL Medical,
- SEWS



# AGS TOOL SERVICE LTD.

## Profile:

AGS Tool Service Ltd. was established in 2018 to carry out tool manufacturing activities. The 750 m<sup>2</sup> plant is mainly engaged in the production of plastic injection moulding tools, aluminium casting tools, servicing and spare parts production by a young, professional team. AGS Tool Service's constantly expanding machine park includes state-of-the-art metalworking machines such as block and wire EDMs, three and five-axis machining centres.

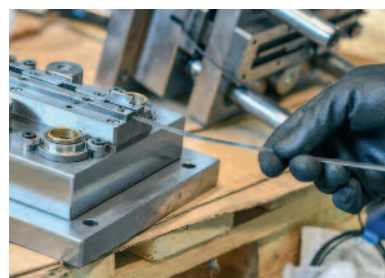
The company receives orders for the production of 10-20 new tools and 250-350 tool overhauls and repairs from customers in Hungary, Slovakia and the Czech Republic every year. AGS Tool Service's team is often entrusted with high-value, complex refurbishments, for which up-to-date technical knowledge is important for planning and execution. For this reason, the company pays special attention to training its employees and to the acquisition of state-of-the-art software.

## Products, Services:

- Tool design and manufacturing
- Spare parts production
- Tool design and development
- Tool maintenance
- Manufacture of custom machined parts

## Know-how and technologies:

- CNC milling machines
- Wire EDM machines
- Machining of solid carbide cutting tools
- Start hole drilling machines
- Laser welders
- Laser engraving
- Universal lathes
- Cylindrical grinder
- Surface grinder



## AGS TOOL SERVICE LTD.

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*phone:* +36 [30] 951-6484

*e-mail:* laszlo.bandoli@agsengineer.com

[www.agstoolservice.com/hu](http://www.agstoolservice.com/hu)



**Year of establishment:** 2018

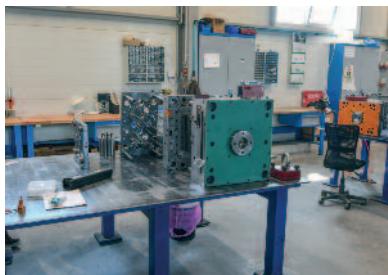
**Number of employees:** 23

**Quality management system:** ISO9001:2015, ISO14001:2015

**Annual turnover:** 1,1 M EUR

**Customers, references:**

- Shinwa,
- Aptiv Austria,
- Aptiv Hungary,
- U-Shin Europe,
- Siroma-Plast,
- DAB Pumps,
- Nolato,
- EKK Eagle,
- Maxon Motor,
- Cascade Hungary,
- Huonker,
- InTiCa Systems,
- Plasticart,
- Recy,
- CavityEye



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# AQUACUT LTD.

## Profile:

Aquacut Ltd. started in 2003 with waterjet cutting. The company has continuously developed its plant in order to serve its customers' needs to a high degree and with a wide range of services. In 2009, it was the first in Hungary to install a Flow IFB2030 DWJ waterjet cutting machine with tilting head and 6000 bar working pressure. Later in 2018, they also added machining to their profile, with CNC machining centres for the production of high-precision, high-precision parts. Then, in 2020, they moved to their own factory building and installed a fine-jet plasma cutting machine.

In 2023, the company started another technological upgrade. They were the first in the country to install a 15KW 6G acceleration 4m x 2m laser cutting machine with a machining area of 15KW, and to adapt to the market situation, they installed a 4m press brake with a pressure of 320 tons and a machining length of 4m. The 100% Hungarian-owned family business is involved in both one-off, small and large-scale production. Their precision and the expertise of their colleagues guarantee the impeccable quality of the steel structures, equipment and components they produce.

## Products, Services:

- Abrasive waterjet cutting
- Laser cutting
- Semi-machining
- Sheet metal bending
- CNC machining
- Welding
- Manufacture of steel structures
- Manufacture of equipment
- Manufacture of machinery parts
- Machine sawing up to max 520mm
- Machining of tubes and pipes with through-feed grinding machines
- Sheet metal rolling

## Know-how and technologies:

The cutting technologies (waterjet cutting, laser cutting) used by AquaCut Ltd. not only achieve high precision and excellent cutting quality, but also the favourable price makes the company competitive, as they can assign the optimal cutting process for the production according to the target.



## AQUACUT LTD.

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Thanks to waterjet cutting, neither the composition of the raw material nor the lattice structure changes during machining. With the Dynamic Waterjet accessory, cuts can be made without angular errors and overruns up to 200 mm thickness on a wide range of materials such as metal, glass, stone, industrial ceramics, marble, granite, titanium alloys, multi-component materials, plastics, multi-layer materials, metal ceramics.

With their top of the range laser cutting machine they can cut up to 4000mm x 2000mm maximum size up to 40mm thickness. The range of materials that can be laser cut is very wide. For example: carbon steel, stainless steel, alloy steels, aluminium and its alloys, copper and its alloys, bronze, etc.

AquaCut not only cuts sheets, but also finishes the cuts to a high quality. With their edge bending machine with 320t pressure, they can bend up to 15mm thickness in 4m lengths. 15mm thickness can be rolled up to 2500mm width. With over a decade of experience, their certified welders assemble the structures the company manufactures, fabricated and documented to quality assurance requirements. As they keep in stock carbon steel, stainless, acid-resistant and aluminium plates from 1mm thickness up to 100mm, they are flexible and available to their partners at short notice.

In 2020, they obtained the EN 1090-2 EXC 2 and EN ISO 3834-2 certifications, certified by the SLV Hannover representative in Hungary. In 2022, they were awarded ISO 9001, ISO 14001 and ISO 45001 certifications to confirm their precision and reliability. In 2023 they extended their certification to EN ISO 1090-2 EXC-3.

**Year of establishment:** 2003

**Number of employees:** 21

**Quality management system:** ISO 1090-2 EXC 3; ISO 3834-2; ISO 9001; ISO 14001; ISO 45001

**Annual turnover:** 1,1 M EUR

#### Customers, references:

- Büttner Kft.; General Electric; Gépszer Kft.; Körber Hungaria Gépgyártó Kft.; Knipl Kft.; Lakics Kft.
- Knics Ltd.; Seres Ltd.; Siemens Erőműtechnika Kft.; SOMAPAK Kft.

#### Corporate developments:

- 2009 Hungary's first 6000bar working pressure tilting head waterjet cutting machine.
- 2016 ISO 9001 introduced, opening up to welding, production of small structures
- 2018 CNC machining
- 2020 Move to own production hall; introduction of EN ISO 1090-2 EXC-2 and ISO 3834-2
- 2022 EN ISO 1090-2 EXC-2 certification extended to EXC-3
- 2023 Extension of quality assurance systems: ISO 9001; ISO 14001; ISO 45001
- Short-term plans include expansion of the production hall and machining capacity, introduction of CNC turning





# ASINOX LTD.

## Profile:

Asinox Ltd. designs and manufactures custom machinery in its 1800 m<sup>2</sup> manufacturing facility. This includes glass-steel combination buildings, building elements, elevator shafts, but also stainless steel elements for biogas silos and the associated stair towers.

The company's own developments include the design and manufacture of machinery for composting technologies. In this segment, their latest self-propelled laminate winders are no longer powered by diesel generators, but are purely electric and generate the machine's energy needs with a solar panel system mounted on the frame.

The company produces an innovative car turning disc on a smaller scale. These garage machines are available in various sizes and for different loads. They are typically used in confined hotel or private underground garages and condominium car parks.

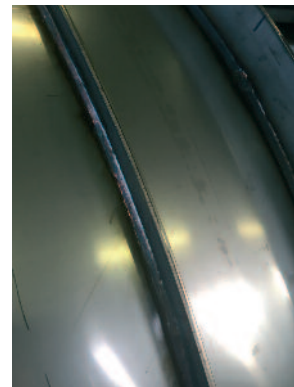
## Products:

- Laminate handling equipment
- Coiling equipment
- Lifting systems
- Rusting equipment
- Planting machines
- Auto-rotating discs
- Stair towers

## Know-how and technologies:

Moulding:

- NC shears (cutting length: 3000 mm, max. thickness: 10 mm)
- CNC slab cutting machine (cutting width: 4000x2000 mm, max thickness: 35mm)
- Band saw machine (cutting diameter: D350 mm)



## ASINOX LTD.

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

**Shaping:**

- CNC bending machine -175 tons (bending length: 3150 mm)
- NC plate rolling machine (rolling length: 2000 mm)
- NC-bridge steel rolling machine
- 100 ton press machine

**Turning:**

- NC-lathe
- CNC coordinate boring machine (working length: 1600x2000 mm)
- Thread grinding machine

**Welding:**

- 4 AWI; AFI welding machines

**Year of establishment:** 2009 (predecessor: 1994)

**Number of employees:** 13

**Quality management system:** EN 1090-1:2009/AC:2010, EN 1090-2:2008+A1:2011  
MSZ EN ISO 9001:2015 and MSZ EN ISO 14001:2015

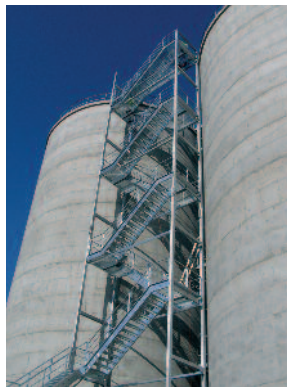
**Annual turnover:** 1,71 M EUR

**Customers, references:**

Most of the products are manufactured for partners in Germany and Austria, but they have also installed structures in Luxembourg and Denmark.

Their most important German partner is one of BMW's direct suppliers of production tools. Asinox Ltd. mainly manufactures steel structures and frames for them, in which the partner integrates its own electronics, control systems and pneumatic components. These components are used to create complete machines which are supplied to BMW, textile factories or other production lines.

In 2025, a biogas power plant will be commissioned at MATE's horticultural farm in Gödöllő, Germany, to provide the heating and electricity for the greenhouses at the school. The surplus energy not used on site will be fed into the grid via an inverter, similar to a solar PV system.



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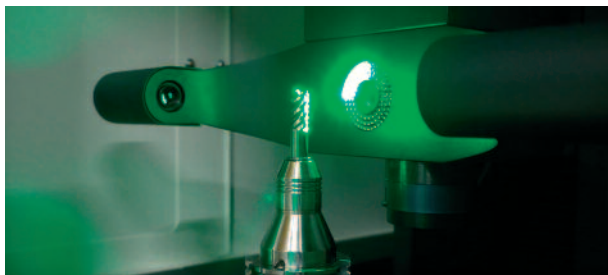
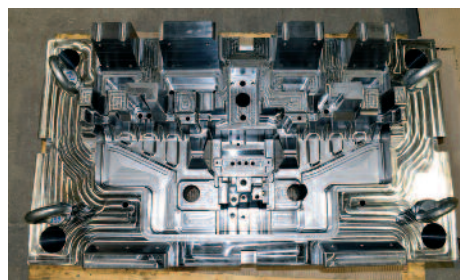
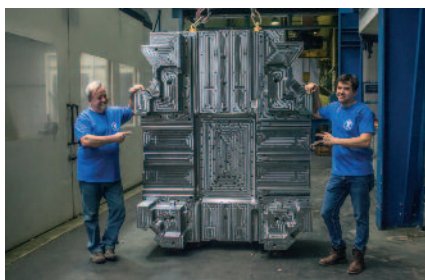
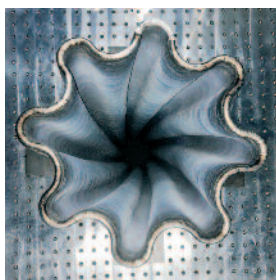
# BÜTTNER AND CO. LTD.

## Profile:

CNC machining in the machine tool industry with high precision in micro, small, medium and large format.

## Products, services:

- Alloyed and unalloyed tool steels cut to size, from stock
- Precision flat steels and inserts
- Drilled and undrilled tool plates in standard and special sizes
- Plastic tool housings, wedge insert tool housings - also assembled
- Insulating inserts in standard and special sizes - also machined
- Tool housings for sheet metal processing in various designs and guide types - also assembled
- CNC milling of tool plates according to customer drawings, roughing, drilling and finishing
- Production of clamping plates, spacers, ejector plates, mold supports, inserts
- Sheets for hot runner systems, heating plates
- Base plates, casting blocks for pressing tools
- Gear wheels, machine parts, device parts
- Production of parts for power and heavy machinery
- Production and processing of welded constructions
- Sale of standard tool components
- Production of large aluminum machine components
- Parts and devices for vehicle construction
- Production of parts for the defense and aerospace industry



## BÜTTNER

BÜTTNER AND CO. LTD.

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

### Know-how and technologies:

CNC water jet cutting, CNC flame cutting, cutting, CNC milling (also 5-axis), CNC surface grinding, CNC long-hole drilling, wire cutting, CNC cylindrical grinding, CNC surface grinding, CNC turning, vacuum annealing, CVD coating, 3D metal printing scanning, cutting tool construction, self-developed modular vacuum table.

**Year of establishment:** 1992

**Number of employees:** 250

**Quality management system:** ISO9001:2009, ISO14001:2008, ISO27001:2013

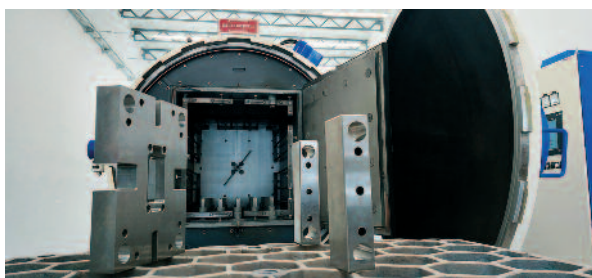
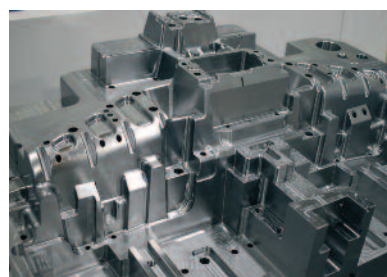
**Annual turnover:** 16,5 M EUR

### Customers, references:

- 2/3 of turnover is generated in export markets.
- The main target market is Germany, but Austria, Switzerland, Great Britain, the Benelux countries, Denmark and Romania are also important export markets.
- Market leader in Hungary in the field of CNC machining of highly complex parts and tool sheets.
- Its customers mainly come from the automotive, pharmaceutical, packaging, energy and household appliance industries, but also from the semiconductor, defense and aerospace industries.

### Corporate developments:

- Site development worth EUR 0.8 M in the last 5 years
- 7.5 M EUR in plant investments in the last 5 years
- Establishment of the largest training center for engineers and the largest engineering technology workshop in the South Somogy region in Hungary
- Construction of a 1000 kW solar park
- Installation of a 120 kW HPC charging station for electric cars



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# CABTEC LTD.

## Profile:

CabTec is a multinational wire harness manufacturer with over 1000 employees in 5 locations worldwide and has been on the market for 50 years. The group produces more than 10,000 different items ranging from sophisticated individual cables to complex cable assemblies for four main markets: automotive, medical, high-tech and industrial & construction.

It has sites in Szekszárd and Kecskemét in Hungary. In Szekszárd, products are typically manufactured for the automotive industry for a number of global customers in Europe and NAFTA. The company employs more than 450 people on an area of more than 8,000 m<sup>2</sup> and is engaged in the following activities: component assembly, crimping, soldering, welding, taping and clean room technology production. The site's departments are: production, project coordination, quality assurance, logistics, operational and strategic purchasing and customer relations. The Kecskemét site also carries out almost identical activities on an additional 6000 m<sup>2</sup> area with 350 employees for other industries.

## Products, services:

- Cable whip production/assembly
- Assembly of connectors and accessories

## Know-how and technologies:

- Automatic cable processing machines with crimping, tinning and sealing modules
- Textile tape coating (banding) machines
- Resistance and ultrasonic welding
- Soldering robots
- Assembly in a certified clean room
- Product Accompanying Quality Assurance (CAQ), 100% electrical final inspection



## CABTEC LTD.

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*e-mail:* szilard.nagy@cabtecgroup.com

[www.cabtecgroup.net/en/home-2](http://www.cabtecgroup.net/en/home-2)



**Year of establishment:** 1886

**Number of employees:** 800

**Quality management system:** ISO 9001; IATF 16949; ISO 14001

**Annual turnover:** 63,4 M EUR

**Customers, references:**

- Webasto
- Belimo
- Valeo
- Magna
- Zollner
- Lear
- Brose
- Preh
- Valmet automotive
- Meiller



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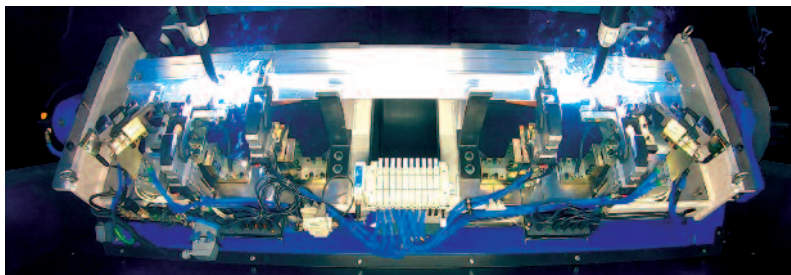
# CADSOL LTD.

## Profile:

CADSOL has been involved in mechanical engineering, target machine design and machine manufacturing since 2012, providing turnkey solutions mainly for multinational clients. Our main activity is machine design and manufacturing for automotive TIER1 suppliers, mainly the design, manufacture, installation and commissioning of welding machines for interior bodywork components (BIW) and robotic cells for body construction. Design work is carried out on the PTC CREO 3D design system, with the help of our continuously trained engineers. We are at home in a multinational corporate environment, with years of experience in working in international teams and managing projects abroad. In the context of the spread of electromobility, we are involved in the design and manufacture of target machines and equipment for the production of battery trays for electric vehicles.

## Products, services:

- Robotic arc-welding, spot welding cells
- Welding equipment for automotive sheet metal parts (BIW)
- Inspection and sorting equipment integrated in the production line
- In-plant material handling systems, solutions
- Assembly of target machines, appliances
- On-site assembly stations
- Control devices
- Welding templates
- Custom lifting equipment
- Steel structures



### Services:

- Technology planning, cycle time analysis, optimisation
- Installation and movement of machines, production lines and cells
- Robot programming, PLC programming

### Know-how and technologies:

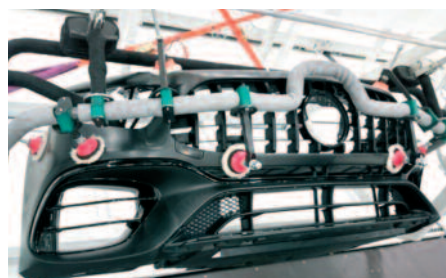
- 3D design
- PLC programming
- Robot programming/ FANUC, ABB, KUKA, stb./
- PC-based software development, database management
- Industry 4.0 solutions
- CAM programming
- CNC machining

**Year of establishment:** 2012

**Number of employees:** 11

**Quality management system:** ISO9001, EN1090-2, ENISO3834-2

**Annual turnover:** 0,98 M EUR





# DOVI-PLAST LTD.

## Profile:

Dovi-Plast Ltd. is producing plastic injection moulding tools, and also manufactures cutting-punching, aluminium injection moulding, extrusion, coquille moulds. The company's 1300 m<sup>2</sup> crane hall provides the technology required for mould making, from design to the production of the final plastic product. The CNC machining centres are used for the production of tool plates and other components, quality control is carried out using a HEXAGON 3D measuring machine and finished products are tested.

## Products, services:

- Manufacture of plastic injection moulding tools
- Manufacture of plastic cutting and punching tools
- Tool making
- CNC milling
- CNC turning
- Laser welding
- Laser engraving
- Machining on wire
- Solid rock machining
- Lathing, slab grinding
- Manufacture of plastic products, injection moulding
- Design

## Know-how and technologies:

Machining ranges:

- CNC milling: 1000 x 510 x 625 mm
- CNC Lathe: Peak spacing 1000 mm, Max. turning diameter over bed: 430 mm, Max. turning diameter over slide: 200 mm
- Milling: 600 x 360 x 400 mm
- Solid turning: 850 x 550 x 450 mm





- Spindle moulding: 950 x 600 x 280 mm
- Surface grinding: 1000 x 400 mm
- Turning: D 500mm
- Face grinding: D 250mm
- Injection moulding: 30-350t clamping force

CAD-CAM systems:

Edge CAM 2013 R2, Solid Edge, Solidworks, Siemens NX 12, 2D interface: dxf, dwg, igs, 3D interface: stp, igs, x\_t, VDA, stl

**Year of establishment:** 2009

**Number of employees:** 8

**Quality management system:** MSZ EN ISO 9001, MSZ EN ISO 14001

**Annual turnover:** 0,92 M EUR

### Customers, references:

The main customer of Dovi-Plast Ltd. is a pool cover manufacturer, which produces various plastic products for the assembly of aluminium profiles. In the field of machining, they produce customized high precision parts for Swiss and Hungarian multinational companies.

### Corporate developments:

In 2019 the company purchased a Joke Micromat Eco spraying system, a column-mounted rotary cutter with bottom bracing, a CNC machine measuring device, a Thermolift 100-3 drying applicator and a column drilling machine. Also this year, the implementation of on-the-job training was completed. In 2019 the company also managed to implement an innovative development, which added an Arburg Allonder 320C500-170 injection moulding machine, an UNFIL 10 111-0,75 air filtration system and a ROMI C420 CNC lathe to the equipment stock. They purchased in 2022 an OKUMA MULTUS 5-axis multifunction lathe. This machine will contribute significantly to the technological development and competitiveness of the company.



# FERROKOV LTD.

## Profile:

Ferrov Iron and Metal processing Ltd. was established as an industrial venture nearly 30 years ago in 1991. The primary operation was hot-dip zinc plating of steel structures as a contract work at time of foundation of the company. The company has seen a dynamic development over the past period of time, with major development projects. The group of companies include four companies: Ferrov ltd., Eko-Tur Ltd., Villacél Ltd. and Szendrő-Galva Ltd.

The primary operation of the company is hot-dip zinc plating carried out by immersion and centrifugal processes in two different sized steel pits and a ceramic pit. Ferrov ltd. also deals with the manufacture of steel structures. In addition, our company provides powder coating, solvent-based painting and electroplating. Our group of companies has become a major production facility in the region by now.

## Products, Services:

- Hot-dip zinc plating: This modern and up-to-date process to permanently protect steel against corrosion is gaining popularity these days. Our zinc plating capacity is 8,000 tonnes/year.
- Production of hot-dip zinc plated connecting elements: We produce the following types of connecting elements to material grade 5.6-8 8.8-10.9: hex bolts and nuts (m8-M36), straight and bent rod bolts (from M8 up), stud bolts, and flat, spring and square washers.
- Electroplating: We deposit the coating onto the surface of steel part from a solution containing the ions of the coating metal using an external power source.
- Painting with traditional process: An IP-SB-43 model, air-tight painting and drying booth available to complete solvent-based painting jobs.



## FERROKOV LTD.

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### Know-how and technologies:

- Laser cutting machines (Trumpf)
- CNC plasmas and oxy-acetylene cutting machine (Esab)
- CNC bending machines (Amada, Weinbrenner)
- Hydraulic CNC sheet metal shears up to ST 6 mm - up to up to length of, 6,000 mm
- Sheet metal rolling machine 2,000 mm x 6 mm
- Profile rolling machine (max. 100 x 10 angle profiles)
- Pipe bending machine (max.nominal diameter 76 mm)
- Eccentric and hydraulic presses (up to 1000 T)
- Titing frame, angle cutting band saw(Bomar) (up to 800 mm at 90°)
- Welding robot (IGM)
- Inert gas welding machine
- Automatic CNC lathe (Haas) (max.diam. 254-521 mm)
- CNC milling machines (ANAYK, DMG, Correa)
- Pedestal drilling machine
- Sheet metal de-burring machine COSTA
- Sandblaster equipment

### Company strategy:

- Environment-friendly production to European-standards
- Healthy and safe work environment
- Long term employment of staff loyal to the company
- On-going compliance to our partner's requirements
- Reliability

**Year of establishment:** 1991

**Number of employees:** 281

**Quality management system:** EN ISO 9606-1, EN 1090-1:2009+A1:2011 DIN, EN ISO 3834-2

**Annual turnover:** 20,2 EUR



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# FORSZ LTD.

## Profile:

Hungarian-owned Forsz Ltd. manufactures special, high precision custom-made cutting tools for machining, automotive and energy sectors from tungsten carbide and high speed steel. Ltd. performs tool re-sharpening and maintenance in high quality as well. Its main customers are both domestic and multinational companies (General Electric, MAG, Nemak, HAUNI, Matro Ltd. etc.). The quality of its products and services is guaranteed by the highly trained and experienced staff and the modern technology. With its outstanding professional activity Forsz Ltd. reached market leading position in South West Hungarian region in the past 25 years.

## Products:

Design and manufacture of standard or custom-made cutting tools from tungsten carbide and high speed steel:

- Twist drill
- End mills, profile mills
- Counterbores
- Reamers
- Indexable insert tools
- Stepped and custom profile tools
- Lathe knives
- Cutter discs
- Profiling of standard tools according to customer's demands

## Services:

- Re-sharpening, maintenance and coating of all kind of cutting tools

## Know-how and technologies:

CNC tool grinding machines, 3D Tool Designer Program, CNC and shadow-projector measuring machines and microscopes, laser engraving.



FORSZ TOOL MANUFACTURER AND RE-SHARPENER LTD.

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



**Year of establishment:** 1992

**Number of employees:** 20

**Quality management system:** MSZ EN ISO 9001:1996

**Annual turnover:** 1,533 M EUR

### Customers, references:

Multinational car component manufacturers, machine manufacturers, tool and equipment manufacturers, and domestic machine and component manufacturers.

### Corporate developments:

- New site investment and site development investments for 130 M Ft
- Tangible goods investment (CNC grinding machine, NC measuring machine, laser engraving machine, CNC tool grinder, controlled induction soldering equipment) for 160 M Ft
- Development of ERP system for HUF 5 million
- Purchase of mechanical engineering software 3 M HUF
- In 2023, an investment of around 375k EUR was made in technology development, with the purchase of 1 piece of projection grinding wheel profile control equipment and 1 piece of CNC robot, laser and measuring projection production equipment. The aim of the development is to manufacture tools with complex geometries, which, when used in component manufacturing technology, can result in significant cost savings for our partners and maintain a competitive advantage by reducing production times.



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# FÓRUM-PLUSSZ LTD.

## Profile:

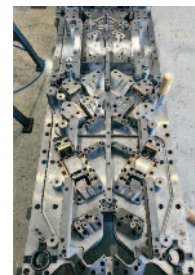
Fórum-Plussz Ltd. has been dealing with tool making since 1990, for CNC sheet metal working machines. Decades of experience over the decades, they have continuously improved their machine park, which has resulted in a CNC machine tools. from CNC milling and machining to 3D machining. Today, the company is active in the automotive and engineering tooling and machining industry and machinery parts manufacturing. They undertake, among others, 3D measurement and digitisation, even on the customer's premises.

## Products, services:

- 3D machining
- Component manufacturing
- CNC milling
- Metal cutting
- Wire bonding
- Tool making
- 3D measurement

## Know-how and technologies:

- AWEA RG5 simultaneous 5-axis portal milling machine - 2600 x 1500 x 1000
- GF AgieCharmilles Mikron VCE 1200 Pro - 1200 x 600 x 675
- GF AgieCharmilles Mikron HMP 450U simultaneous 5-axis - 600 x 450 x 450
- Dugard Eagle VMC 760 - 760 x 420 x 450
- Dugard Eagle VMC 850 - 850 x 520 x 510
- SODICK SLC400G Premium Plus for CNC wire rods - 400 x 300 x 250
- SODICK SLC600G Premium Plus CNC Wire Rope - 600 x 400 x 350
- Fanuc Alpha 1A for wire rods - 520 x 370 x 350
- Fanuc Alpha 0iA for 6-axis wire rods - 320 x 220 x 180
- Jonas&Shipman Techmaster 634 Easy precision automatic profile and surface grinder - 600 x 300
- Chevalier FSG-1632ADIII automatic surface grinder - 800 x 400
- Equiptop ESG-3A818 surface grinder - 400 x 200
- MUHEL programmable nitrogen protective gas annealing furnace - 800 x 500 x 350
- Sandblasting cabin - 900 x 500



- MUHEL programmable nitrogen protective gas annealing furnace - 300 x 300 x 120
- 1 m<sup>3</sup> cooling tank (oil bath)
- Recovery furnace
- ARG 250 band saw up to 300 mm
- Simpac MC2-400 double crank eccentric press with feeder, straightener and winder

**Year of establishment:** 1990

**Number of employees:** 24

**Quality management system:** MSZ EN ISO9001:2005

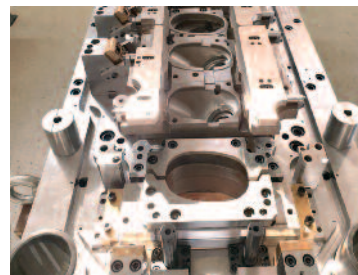
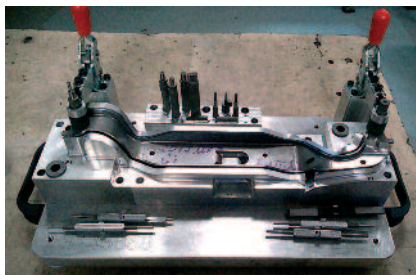
**Annual turnover:** 1,2 M EUR

#### Customers, references:

- |  |                                       |
|--|---------------------------------------|
| – Aikawa Hungária Ltd.                   | – VT ES Ltd.                          |
| – Cms electronics GmbH                   | – Adval Tech Hungary Ltd.             |
| – Cms Manufacturing Ltd.                 | – Sertec Auto Structures Hungary Ltd. |
| – Eördögh Trade Ltd.                     | – BHG-ÁSZ Ltd.                        |
| – Fastron Hungária Ltd.                  | – SAPA Profiles Ltd.                  |
| – Ferro-Flex Gép és Szerkezetgyártó Ltd. | – DATALOGIC Hungary Ltd.              |
| – Great Lakes Hungary Ltd.               | – FHL Björn Hungary Ltd.              |
| – Hankook Tire Magyarország Ltd.         | – SHOPTEC Fémárugyártó Ltd.           |
| – KEP Elektronikai Alkatrészgyártó Ltd.  | – Báлинд Ltd.                         |
| – Linardics Ltd.                         | – KVJ Művek Ltd.                      |
| – Metal-Stanz Fémipari Ltd.              | – Pata József Gépipari Ltd.           |
| – Pridgeon & Clay Ltd.                   | – F. Segura Hungary Ltd.              |
| – Thermo-Control Körtségessy GmbH        | – Gedia Hungary Ltd.                  |

#### Corporate developments:

- Between 2009 and 2011, a total of HUF 25 million worth of equipment was added.
- In 2013, site development worth HUF 21 M
- In 2015, a further 53.5 M Ft worth of equipment expansion (production capacity expansion)
- Between 2018 and 2020, a further HUF 59 million worth of equipment expansion (production capacity expansion)
- In 2023 site development



# GÉPSZER LTD.

## Profile:

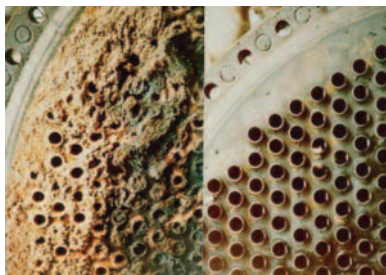
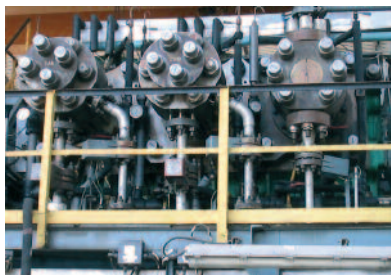
The Company's main activity is the manufacture, installation and maintenance of complete technological, engineering systems and components. Gépszer Ltd. has got a decade long, comprehensive experience and practice in the technological assembly industry.

Having worked in almost all large industrial plants within Hungary we could demonstrate the high quality and reliability of products and services to the satisfaction of our partners.

Our company's profile includes high-pressure (3000 bar) water services, for cleaning technological systems, different surfaces, and also, for demolition and cutting purposes.

## Products, Services:

- Manufacture, installation and maintenance of complete technological systems
- Manufacture and maintenance of heat exchangers, pressure vessels, tanks, steam generators
- Manufacture of steel structures and platforms
- Piping, construction and maintenance of pipelines
- Armature replacement and maintenance
- Qualified welding
- Heat treatment
- Surface cleaning with high pressure water (up to 3000 bar) (e.g. for technological system, buildings, pipes, heat exchangers, tanks)
- Cutting and demolition with high pressure water (up to 3000 bar) technology applications
- Distribution and servicing of high pressure water equipment (Hungarian distributor of Hammelmann GmbH)



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### Know-how and technologies:

Technological assembly and maintenance:

- Based on comprehensive experience, practice and technical background we undertake complete tasks using tailor-made welding technological solutions at competitive prices in the assembly industry.

High pressure water technology:

- Our available high-pressure water technology equipment – with extremely high efficiency – include the license for cleaning air cooled heat exchangers by J&W® of Germany, furthermore Aquablast® and Spider-jet® cleaning systems and Vakuüm System to minimize the generation of hazardous waste.

Regarding high pressure water technology we are able to provide the widest range of services and equipment available in Hungary.

**Year of establishment:** 1996

**Number of employees:** 110

**Quality management system:** ISO 9001:2008 és ISO 14001:2004

**Annual turnover:** 4,4 M EUR







# GLT DELTA LTD.

## Profile:

The history of our company started in 1985 by establishing Termovill Gmk. on which basis GLT Delta Kft. was founded in 1991.

Our core values remained the same since the company was established. We manufacture and install systems, which are environment friendly, protect life and ensure comfort and well-being.

At that time we were offering the core building engineering services (HVAC, Plumbing), but year after year with continuous innovations we developed broader service portfolio.

The first significant milestone in our innovation roadmap started when we built a prefabrication plant in 1995 in order to fulfill faster and higher quality export requirements. With more than 20 years of experience in prefabricated systems, we developed the highest level of 3D laserscanning, 3D BIM modelling, fabrication and fast installation. Integrating these four services, we are able to offer an end-to-end solution, which is much faster and has better quality due to the precise modelling and robotized fabrication.

We believe that we were only able to achieve this high-level all in one solution with very well trained, knowledgeable and motivated colleagues. In order to maintain those high standards we are constantly investing in trainings in every level of our organization.

## Products, services:

General HVAC and Plumbing Services:

- Ventilation systems
- Industrial cooling systems
- VRV / VRF systems
- Boiler houses, energy supply systems
- Stainless-steel piping systems

Service and maintenance:

- Heating, ventilation and air conditioning pump service and maintenance (WILO Pump warranty service, Viessmann boiler service)

Our special services, which combined creates an end-to-end solution:

- 3D laserscanning: millimeter accurate 3D measurements of buildings, mechanical and technological spaces, equipment's and industrial fields for architects, engineers, maintainers and investors



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



- BIM 3D design that offers both mechanical and architectural cost effectiveness and results in speed at the construction site
- Prefabrication of building engineering piping systems, sprinkler fire extinguisher systems, boiler rooms, heating and cooling centers and mechanical spaces
- Installation of prefabricated systems significantly faster with higher precision than the traditional way of installation.

Our core competencies on which we build the future

- 30 years of professional experience
- Integrated services for higher quality
- Lower project risk
- Optimized costs
- Shorter deadlines
- Higher quality
- Transparent and traceable project workflow
- Stable, continuously trained workforce
- Thinking in complete HVAC systems
- Technical consultancy for personalized building systems
- Reliable, multi-generation family business

#### Know-how and technologies:

- 3D surveys indoor and outdoor with laserscaners and drones
- BIM designing in highest level of development - LOD 400.
- Using Big Data to calculate the projects real costs and time
- Project traceability system with barcodes from designing face to installation
- Fanuc industrial robot and automated fabrication systems

**Year of establishment:** 1991

**Number of employees:** 47

**Quality management system:** ISO 9001

**Annual turnover:** 3,65 M EUR



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# HIDROFILT LTD.

## Profile:

The main activity of the Hidrofilt Group is the design, manufacture, installation, commissioning, maintenance, remote monitoring, operation, and supply of spare parts and chemicals for water treatment systems. Hidrofilt Ltd., which has a production base in Nagykanizsa and an office building and warehouse in Érd, has established subsidiaries in Slovakia, Romania and Poland to strengthen its export activities.

Thanks to its innovative technologies, the Hidrofilt Group has extensive references in many sectors (industry, agriculture, services, research and development). As a market leader in the region, it has installed water treatment systems in Europe, Asia, Africa, North and South America.

As the main contractor, the Hidrofilt Group undertakes the implementation of complete, turnkey project and the supply of water treatment technology as technology supplier.

## Products:

Reverse osmosis-, nano- and ultrafiltration systems, membrane contractors, microfiltration, multimedia filters, iron and manganese removal systems, arsenic removal systems, mixed bed ion exchangers, automatic/annually operated desalination systems, water softeners, nitrate-, heavy metal removal equipments, inox and plastic storage tanks, degassing, sedimentation, lamella separators, disinfection systems (UV, ozone, chlorine dioxide, chlorine gas, hypo), chemicals.

## Services:

- Design (construction, technology, mechanical, electrical, control engineering)
- Production (stainless steel workshop, plastic tanks manufacturing workshop, assembly workshop)
- Service (maintenance, service, parts and chemical supply)
- Operation (remote monitoring, on-site operation)
- Research and development (accredited laboratory, technology and product development)



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

### Applications:

- Production of drinking water, process water, irrigation water from surface water, groundwater, seawater, brackish water
- Reduction and removal of water hardness, iron, manganese, nitrate, ammonia, methane, arsenic, boron content
- Desalination with membrane technology
- Water treatment and conditioning for energy systems (power plants, boilers, cooling systems)
- High purity water production for the pharmaceutical industry (PW, HPW) and the electronics industry (UPW)
- Industrial wastewater treatment and recycling (ZLD technologies)
- Fixed or container-mounted mobile devices

### Know-how and technologies:

- HidroWell container mobile water treatment systems for drinking water, process water and waste water treatment
- High temperature sanitary pharmaceutical water treatment systems
- Energy efficient desalination systems
- Low operating cost seawater desalination systems
- Membrane Technologies / Innovative Application of RO, SWRO, DPRO, NF, UF, MF, EDI, CEDI, MC, EDR, MBR, FO

**Year of establishment:** 1990

**Number of employees:** 188

**Quality management system:** ISO 9001, ISO14001, ISO45001, ISO 3834, VCA/SCC\*\*, ISO/IEC 17025

**Annual turnover:** 23,4 M EUR

### Customers, references:

- Drinking water treatment: Water Board Sri Lanka, Miviz, DRV
- Energy industry: MVM Paks Nuclear Power Plant Ltd., Energetyka, Viresol
- Chemical and Oil Industries: MOL, Slovnaft, Borsodchem, MOL-JSR, PCC Rokita
- Pharmaceutical industry: Gedeon Richter, Béres, Alkaloid, Becton & Dickinson, Human
- Food Industry: Dreher, Coca-Cola, Univer, Givaudan, Pick, Hell Energy, Globus

### Corporate developments:

- Site development> EUR 3 million in the last 5 years
- Research & Development> EUR 3 million in the last 5 years



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# HIDROT LTD.

## Profile:

Own developed products of Hidrot Ltd. are widely used on the Hungarian road network, on shorelines and banksides of canals, water-courses and dikes of the flood defense system. Hidrot's profile include the production of road maintenance machinery such as flailmowers, branch cutters and cleaning equipments, furthermore liquid spreaders, snow ploughs asphalt recycling machines and floating workboats too. Hidrot Ltd. is Hungarian distributor of Austrian Reform one and two-axle mowers, Danish Epoke spreaders, Dutch Votex flailmowers, mowing and landscape maintenance devices of German Irus, as well as the high tech mowers and wood chippers of German Dücker as most important partners.

## Products, Services:

- Front ploughs, rotating devices for snow removing
- De-icing equipments, such as bulk spreaders for trucks, spreaders for tractors, combined liquid spreaders, equipments for preparing solutions
- Power brooms, cleaning devices, water tanks for the road maintenance
- Mowers for tractors: arm mowers with several type of heads
- Mowers for tool carrier vehicles, front- and rear-mounted units
- Tools for the arms: flail mowers for grass, for branches, disc mowers, saw blade cutter, alternative branch cutters, ditch cleaning units, mowing buckets, weed brushes
- Remote controlled mowers, single- and two-axle mowers, tool carriers
- Wood chippers for tractors, for tool carriers, units with dedicated engine
- Stump milling machines, hydraulic driven, for three-point-linkage, self-propelled
- Multifunctional mowing boats



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



### Know-how and technologies:

CNC turning machines, milling centers (vertical 3-axis, 5-axis, double-column, two-palette, horizontal, up to 3m), sheet rolling and bending, powder coating.

**Year of establishment:** 1994

**Number of employees:** 50

**Quality management system:** MSZ EN ISO 9001:2015; ISO 14001:2015

**Annual turnover:** 5 M EUR

### Customers, references:

Roads engineering planners, flood and inland water protection institutions, settlement management companies, municipalities, agricultural enterprises.

### Corporate developments:

- Product developments for 450 M HUF in the last 5 years
- Site developments for 640 M HUF in the last 3 years
- Asset investments for 830 M HUF in the last 2 years
- Renewal of the ERP for 35 M HUF last year
- Production and product development through R & D & I tenders currently amounts to 250 M Ft



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# KAPOSBREZON LTD.

## Profile:

KAPOSBREZON Ltd. was established in November 1996. Its main activity is tool making, but it is also active in metalworking and in manufacturing plastic products. They are mainly specialized in the production of plastic injection molding tools, but they also produce die punching, aluminum injection molding, extruder, die-casting tools. Injection molding machines undergo trial manufacturing, so their partners take over the tool after successful trial manufacturing. At their CNC machining centers, they produce tool sheets and other parts. They can undertake manufacturing on short notice.

## Products, Services:

- Manufacturing of tools
- CNC milling
- CNC turning
- Laser welding
- Laser engraving
- Wire milling
- Block milling
- Turning
- Mantle grinding
- Plastic product manufacturing
- Injection moulding and design

## Know-how and technologies:

The Company has all the tooling technology from design to the final plastic product. It has more than 25 years professional experience in tool manufacturing and high precision custom parts manufacturing. Modern new machines also help the company to hold its own in both domestic and foreign markets.



**Year of establishment:** 1996

**Number of employees:** 19

**Quality management system:** The company is ISO 9001: 2015 certified, which is certified by the TÜV SÜD certification body.

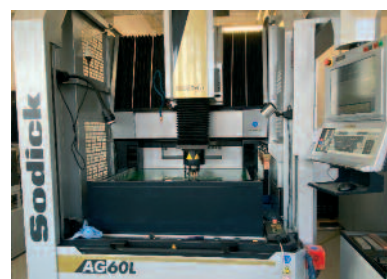
**Annual turnover:** 0,94 M EUR

### Customers, references:

Foreign owned multinational companies with Hungarian headquarters, domestic auto parts manufacturers and other parts manufacturers.

### Corporate developments:

- New site investment: 120 M HUF
- New equipment investments: (SODICK wire and block welding machines, OKAMOTO CNC milling machine, SISMA laser welding machine, ROMI CNC lathe, HEXAGON 3D measuring machine, ARBURG plastic injection molding machine, UNIFIL air filter system) 220 M HUF
- Purchase of mechanical design software 3 M HUF



# KAPOSVÁRI VILLAMOSSÁGI GYÁR LTD.

## Profile:

The Kaposvár Electrical Factory Ltd. (KVGY Kft.) has been manufacturing low-voltage and medium-voltage electrical appliances and equipments for more than 50 years. They are main suppliers to the Hungarian electricity distributor companies. They also manufacture DC traction devices. Significant part of their production is for export (electrical installation articles) to Germany, France and other EU member states.

## Products, Services:

- D and CH-based fuse-links
- Serial terminals
- Compact transformer stations
- Medium voltage and low voltage disconnectors
- Engine cases
- Low-voltage distribution equipment
- Column Switches
- Plating
- Metalworking
- Moulding
- Plastics processing
- Machining
- Powder Coating



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www.kvgy.hu

### Know-how and technologies:

- CNC sheet metal working
- CNC machining
- Welding: aluminum, stainless
- Thermosetting plastic production
- Electrostatic powder coating
- Plating: silver plating, nickel plating, galvanizing

**Year of establishment:** 1967

**Number of employees:** 350

**Quality management system:** ISO9001, ISO14001, ISO50001

**Annual turnover:** 18 M EUR

### Customers, references:

E-ON Hungária Group, ELMŰ-ÉMÁSZ Group, NKM Group, EPCOS-TDK Ltd., Fusetech Ltd., Mersen France SAS, Weidmüller Interface GmbH., Hager Electro GmbH., ELSTA Mosdorfer GmbH., ETI



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# KÉT SALAMON LP.

## Profile:

Két Salamon Lp. in Nagykanizsa offers a wide range of metal fabrication services, including 3D CNC plasma and laser cutting, CO and AWI welding, robotic welding, plate rolling, CNC edge bending and plate cutting. The company specialises in the manufacture of steel and acid-resistant tanks with OTH-approved coating for potable water, so that they can be integrated into the potable water network either as filter or storage tanks. They also manufacture traditional locksmith products, weld and cut steel structures and produce carriage sheds.

## Products, services:

- Carport manufacturing, construction and installation.
- Manufacture of metal structures: manufacture of traditional locksmith products, welding and cutting of steel structures.
- Tank manufacture: manufacture of steel and acid-resistant, pressure and storage tanks up to 600-2500 mm in diameter, in vertical and horizontal design.

## Know-how and technologies:

- Hypertherm 300 - 3D CNC plasma cutter for cutting plates from 2 to 50 mm thick, up to 2500×6000 mm
- 6 kW flat laser cutting machine - with table up to 1500×3000 mm
- CO and AWI welding machines - for advanced welding jobs
- Laser welding equipment - for modern laser welding processes
- Daihen-Varstroj 7-axis robot - for automatic welding operations
- Plate rolling machine - up to 3000 mm diameter, 2500 mm shell height, 10 mm thickness
- CNC edge bending machine - 220 tonne, 6-axis, suitable for edge bending up to 3100 mm
- Plate cutting machine - for materials 0.5-6 mm thick up to 3100 mm wide





**Year of establishment:** 1998

**Number of employees:** 12

**Quality management system:** ISO 9001:2015, ISO 14001:2015, Directive 2014/68/EU G, B+F modules, H\_RH7-21 0507, EN ISO 3834-2:2006, H\_RH2-21 0277

**Annual turnover:** 0,825 M EUR

#### Customers, references:

Their key business partner is Hidrofilt Ltd.: they manufacture water treatment plant frame structures, piping and tanks for them, in corrosion resistant and carbon steel materials.

The other part of our customers are from the main sectors in the region - furniture manufacturing and water treatment.



# KISS ÉPÜLETGÉPÉSZ LTD.

## Profile:

With more than 20 years of experience, the main activities of Kiss Épületgépész Ltd. include building services engineering projects, process installation, fire water and fire extinguishing system construction, as well as utility, civil engineering and road construction.

## Services:

Building services engineering

- Full building services engineering
- Fan-coil heating system installation
- VRF heating-cooling system
- Centralised ventilation system
- Dark radiant heating system installation
- Energy efficient comfort cooling and heating systems with wood chip fired boiler

Technological installation

- Energy efficient cooling and heating systems
- Compressed air networks
- Grease duct systems
- Thermal oil systems
- Argon, nitrogen, carbon dioxide and other gas systems

Fire protection

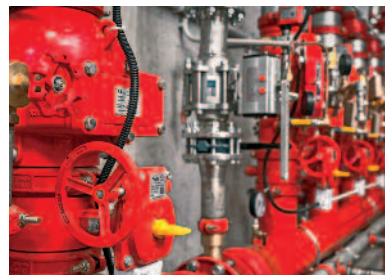
- Construction of built-in fire protection systems, including fire water systems, sprinkler systems, fire sprinkler systems, water mist systems, gas extinguishing systems, fire alarm systems

Road construction, civil engineering and utilities

- Gas supply, district heating, water, sewage, pressurized sewage, storm water utility constructions

## Know-how and technologies:

- Komatsu PC210LC crawler excavators
- Komatsu D61PX- 24 dozer (with Leica Icon 3D Dual GNSS machine control)
- Bomag HD120 roller
- Amman ASC130 roller
- JCB Vibromax VM146D roller
- JCB 4CX tractor-based trencher (2 pcs)



- Vermeer RT350 trencher
- Hyundai HW160 rubber-tyred wheeled excavator
- 3-6 ton rubber-spring excavator (4 pcs)
- 6×6 crane MAN, 1 4×4 MAN dump truck (2 pcs)
- Benford Terex TA6 rough terrain dump truck
- Atlas Copco screw compressor, soil loaders (3 pcs)
- Lifting equipment (5 pcs)
- Scissor lift (25 pcs)

**Year of establishment:** 2002

**Number of employees:** 33

**Quality management system:** MSZ EN ISO 9001:2015, MSZ EN ISO 14001:2015, MSZ ISO 45001:2018, ISO 3834-2 a 8/2018. (VIII.17) .) ITM decree. The company is registered in the register of the Office for the Protection of the Constitution ("For the purposes of protection and security under Act XXX of 2016, § 118 (1)")

**Annual turnover:** 6,39 M EUR

### Customers, references:

Our customers are manufacturing companies, production companies, as well as major general contractors in the construction industry, players in the competitive market.

- Synergy Construction Hungary Ltd. - Debrecen, Contemporary Amperex Technology Hungary Ltd. (CATL) (total 73.000 m2) with sprinkler, gas and fire extinguishing and fire hydrant systems (2024-2025)
- China Construction Sausum (Hungary) Ltd. - Kaposvár, J-STAR MOTION Hungary Ltd. production plant sprinkler and fire hydrant system (2024-2025)
- FEJÉR-B.Á.L. Zrt. - NIPÜF warehouse sprinkler system in Tatabánya (2024)
- WEST HUNGÁRIA BAU Ltd. - Semcorp battery production plant in Debrecen: REA MWS hall foam extinguishing system, gas extinguishing system for electrical rooms; SWS hall sprinkler and foam extinguishing system, gas extinguishing system for electrical rooms; ENR energy centre fire hydrant network (2023-2024)
- WEST HUNGÁRIA BAU Ltd. - Battery production plant in Debrecen Secmról: HWS hazardous waste storage with foam extinguishing system; MWH raw material warehouse sprinkler and foam extinguishing system; SPR machine room (2023)
- Tamási-Hús Ltd. - construction works for the energy centre (2022)
- Tamási-Hús Ltd. - construction of Ventilex ventilation system (2022)
- FEJÉR-B.Á.L.Zrt. -Budapest, Daróczi úti building group III. building I. and II. floors of building I. and II. partial reconstruction of office space, construction of new office space (2022)
- Pallér Csarnok Ltd. - Mechanical construction of LogiCube Park in Biatorbágy (2022)
- Pallér Csarnok Ltd. - Mechanical engineering of Tolnatext Bt. production hall (2022)
- CAADEX Ltd. - Construction of a production hall in Komló (2022)
- Tamási-Hús Ltd. - Construction of a complete steam system for the extension of the Tamási-Hús Ltd. plant (2020-2021)
- Tamási Város Municipality - Construction of the drinking water supply for the suburban area, phases I and II (2019-21)



### KISS ÉPÜLETGÉPÉSZ LTD.

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*phone:* +36 [74] 471-143

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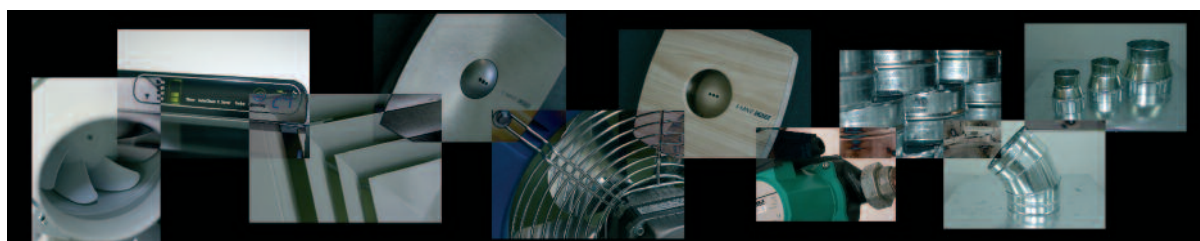
# KLÍMATRIÓPLUSSZ LTD.

## Profile:

Our firm concentrates on the design, installment and maintenance of complex HVAC systems. Founded over two decades ago, our firm's widely recognized expertise earned the trust of thousands of clients in the CEE region and also secured its leading position on the Hungarian markets. We pride ourselves with the unique feature of providing design, production, installment and maintenance services to our clients. Coupled with our innovative, client-oriented approaches and highly trained staff, Klimatrio always satisfies customer needs and delivers unique HVAC solutions.

## Products, Services:

- Tailored and mass production of ventilation tubes, rectangular/circular units and HVAC cross-section items
- Design and manufacture silencers, stage-flats, ventilation technology accessories (roof blowers, fixed shutters)
- Development and installation of industrial clean room technologies, moist-controlled food storages, ventilation of low plate count rooms and surgery rooms
- Design and installation of air-water, water-water heat pumps
- Our products are available in our retail stores and webshop ([www.klimajoaron.hu](http://www.klimajoaron.hu))
- As an entrusted representative, distributor and service point of leading brands in the Southern CEE region, our firm prides itself with its capacity to provide certified maintenance services for all of its products
- Whilst we provide 24/7 maintenance services for the public, our clients enjoy priority treatments and fast-response emergency solutions



## KLÍMATRIÓPLUSSZ LTD.

address: Hungary, 7622 Pécs, Légszergyár u. 40.

phone: +36 [72] 512-240

e-mail: [info@klimatrio.hu](mailto:info@klimatrio.hu)

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



### Know-how and technologies:

- Design, production, installation and maintenance of unique HVAC systems
- Production of internally developed standard and insulated tubes, and silencers with wings
- Design, production and installation of large sized in – and outdoor air-ducts

**Year of establishment:** 1995

**Number of employees:** 35

**Quality management system:** ISO 9001

**Annual turnover:** 1,93 M EUR



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# KNIPL LTD.

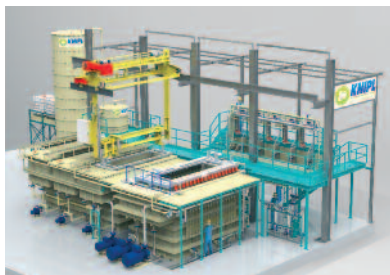
## Profile:

Main activity of company KnipL is planning, manufacturing, installation, start-up of surface treatment plants. In Hungary, company KnipL was one of the first companies to produce modern, environmentally friendly, qualitative plants for coating/surface technology. Today they have plants across Europe (Germany, Austria, France, Sweden, Slovenia, Romania, Serbia, Russia, Slovakia, Czech Republic, Bulgaria) and overseas (Japan, Mexico, China). Several international, market leader companies are partner from company KnipL (Benseler, BMW AG, Georg Fischer, Kuka Robotics, Linde, Philips, Thyssenkrupp, Wacker Neuson, ZF).

Their product-range comprises all kinds of plants with reference to surface technology. It varies from pre-treatment plants up to the most modern coating technologies. Their range is completed with the needed material moving systems, robot systems and modern closed and continuous wastewater-plants.

## Products, Services:

- Spray and dip pre-treatment plants
- Electroforetic (KTL; E-Coat) dip coating systems
- Powder coating plants
- Pre-treatment, coating with robot system
- Wastewater treatment plants
- Dryer; curing ovens
- One track conveyor systems, Power & Free material moving systems
- Hoists, floor material moving systems, roll tracks
- PLC control systems, programming
- Complete design and planning
- Complete assembly and start-up
- Complete authorization



## KNIPL LTD.

addresses: Hungary, 1037 Budapest, Remetehgyi u. 25., 7150 Bonyhád, Borbély u. 25.

phone: +36 [74] 550-540

e-mail: [info@knipL.com](mailto:info@knipL.com)

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

### Know-how and technologies:

Due to continuous improvements, the company currently has about ca. 350 employees on 10,000 m<sup>2</sup> manufacturing area. Base of the manufacturing are the traditional plants from stainless steel, but since the last years the company has a wide range of polypropylene plants. Following the current industrial requirements, the latest developments in the last years happened in the robot-based surface treatment plants and in the control and planning systems. Focusing on quality and high availability of equipment, the company sees its increasing position in Europe and on the global market.

**Year of establishment:** 1999

**Number of employees:** 350

**Quality management system:** ISO 9001:2015

**Annual turnover:** 19,3 M EUR

### Corporate developments:

- Significant site development and modernization in the value of more 360 M HUF in the last 5 years
- New production bases, purchasing of new machines, expansion of the office building
- Integration of robot technology into the surface treatment systems, new robot test plant





# KONTAKT-ELEKTRO LTD.

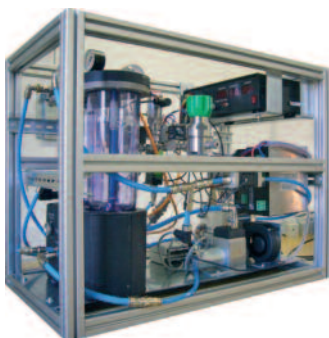
## Profile:

KONTAKT-Elektro Ltd. is a family business, owned exclusively by Hungarian private person. Since 1982 KONTAKT-Elektro Ltd. has been active in various fields of industrial automation. The company has 1.6 ha production site with 6.000 m<sup>2</sup> modern industrial facility. Revenues in recent years were around 4,3 M EUR, the annual export rate is between 30-70%. We have broadened our activity in 2014 with custom-made machine manufacturing. Since then an increasing part of our work is development, design and delivery of high value added custom made machines and quality control machines.

The company's top strengths are the ability to deliver turnkey and complete automation solutions, compliance with deadlines, and uncompromising commitment to quality.

## Products, Services:

- Industrial automation: development/ design/ installation of complete automated/robotized manufacturing technology applications, manufacturing of equipment and machinery, programming and supervision
- Industry 4.0 solutions for manufacturing and industrial facilities (MES systems, ERP SQL interface, energy management, etc.)
- Design, production and on-site installation of individual and serial electric equipment
- Industrial electronics products: custom-made, designed and manufactured products, (e.g. control electronics) and independent product lines in series production (inductive and capacitive sensors, rotation sensors, water level control, microprocessor controls, etc.)
- Exclusive and non-exclusive trade representation of leading automation and sensor technology brands in Hungary with an experienced application engineer team (SICK, Novotechnik, Contelec, Motrona, SIEMENS, Eaton, Phoenix Contact, Rittal, LAPPKABEL, Weidmüller stb.)
- Since 2014. designing and implementing of high-value-added custom-designed machineries



## KONTAKT-ELEKTRO LTD.

address: Hungary, 7630 Pécs, Mohácsi út 79.

phone: +36 [72] 516-067, +36 [72] 516-068

e-mail: kontakt@kontakt-elektro.hu

www.kontakt-elektro.hu



### Know-how and technologies:

The company developed PEM type hydrogen supplied fuel cell generators for stationary and mobile applications in the range of 1-5kW power. Beyond the application solutions, KONTAKT-Elektro designed also its own fuel cell stack prototypes.

**Year of establishment:** 1982

**Number of employees:** 72 (including 19 engineers)

**Quality management system:** ISO 9001:2015

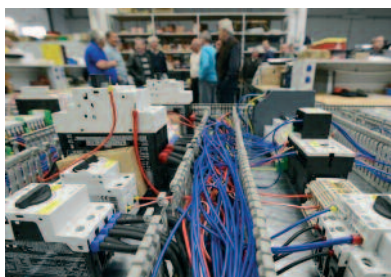
**Annual turnover:** 4,3 M EUR

### Customers, references:

Our active customers are firstly the end-user and technology companies using automated production technologies and intralogistics-solutions, as well as international and domestic companies in various segments of the engineering industry. References in the automotive sector also play a significant role.

### Corporate developments:

- Site development investments for 1,5M EUR in the past 5 years
- Tangible goods investment for 0,2M EUR in the past 5 years
- Building up of own educational room for electrical professions



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# KONTAKT-ENGINEERING LTD.

## Profile:

KONTAKT-Engineering Ltd. was first founded in 1996 as Robatech Ltd., and since 2020 the company has been operating under its current name as a member of the KONTAKT-Elektro/KONTAKT-Engineering group.

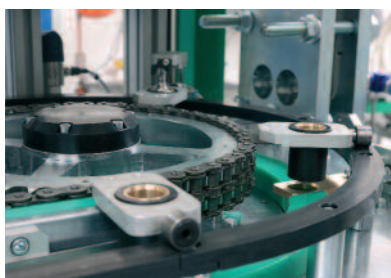
The company's activity is custom machine manufacturing and development of special purpose machines. Their machine manufacturing activities started with the development, production and installation of industrial glueing (hotmelt/cold glue) technologies. Since the beginning, they have provided the commercial representation and service in Hungary for the leading Swiss industrial adhesive technology brand Robatech. In addition, the company was already present - and has been continuously expanding - to meet the needs of industrial partners for the supply of target machines and the development and supply of solutions that do not include adhesive technology. From 2020, under the new company name, the focus will be on the full satisfaction of the production technology, quality assurance and automated logistics needs of the most diverse manufacturing sectors.

The strength of KONTAKT-Engineering Ltd. is that, in cooperation with KONTAKT-Elektro Ltd., it can mobilize significant financial and human resources to manage and meet the specific needs of its partners on a project level.

Cooperation with the local business community plays an important role in the life of the group, and they are also partners in education at secondary and tertiary level.

## Products, services:

- Custom engineering - Development, prototyping, Design, Manufacturing, Machine building
- Control and sensor technology - PLC Commissioning, trial operation
- Data acquisition, MES integration, remote monitoring
- Robotic cells (manufacturing, QA cells), automation (machine service)
- Glueing solutions, Glueing target machines, Servicing, spare parts
- Packaging and dispensing solutions
- Conveyor systems, Intralogistics, Material handling



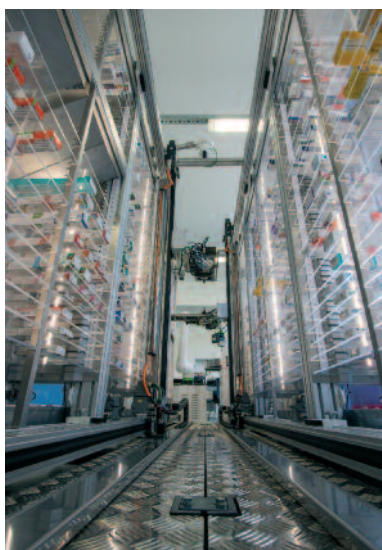
**Year of establishment:** 1996: Robatech Ltd., from 2020 KONTAKT-Engineering Ltd.

**Number of employees:** 10 people (engineers, technicians and graduates)

**Annual turnover:** 0,79 M EUR

**Customers, references:**

- Rexroth, Festo, Körber
- FMCG: BAT, Liss, Nestlé, Univer
- Automotive: Honsa, Hanon Systems, Joyson Safety Systems
- Healthcare / Cosmetics: Coloplast, B. Braun, P&G
- Building materials / wood / furniture: Terrán, IKEA





# KÖRBER HUNGÁRIA MACHINERY LTD.

## Profile:

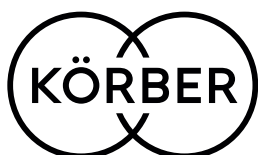
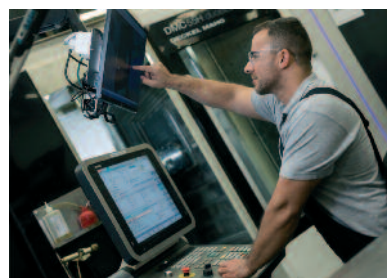
The Körber manufacturing plant in Pécs is a market leader in unique machine manufacturing as a member of the international Körber Group. It has been operating since 1994 in Pécs as a successor to the century-old Sopiana Machine Factory. Currently, it is one of the largest employers in Baranya County and a stable pillar of the region's economy. With a highly qualified team of professionals and state-of-the-art equipment, it produces world-leading products in the machine and equipment industry.

## Products, Services:

- Complex machine and equipment manufacturing solutions for many different industries from tobacco to pharmaceutical. (design, manufacturing, logistics, commissioning and operation)
- Engineering services
- Machined and sheet metal parts
- Mounted and welded structures
- Laser cutting, sheet bending and rolling of precious and normal steel
- Production of complicated welded structures by spot and WIG/WAG/MAG welding
- Turning, milling, slab and flat grinding, heat treatment, surface treatment
- 3D-CAD/CAM machining
- Custom manufacture from simple parts to complex units

## Know-how and technologies:

- World-class manufacturing equipment and technologies, modern thinking
- Unique developments from design to finished equipment
- Strict legal and quality requirements
- Advanced digitalization, paperless production
- Industry 4.0 solutions



## KÖRBER HUNGÁRIA MACHINERY LTD.

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*phone:* +36 [72] 505-200

*e-mail:* hungaria@koerber.hu

*www:* koerber.hu



**Year of establishment:** 1994

**Number of employees:** more than 1000

**Quality assurance system:** DIN EN ISO 9001:2015, ISO 14001:2015

**Annual turnover:** 125 M EUR

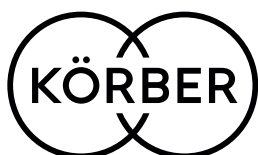
**Customers, references:**

- Körber Group
- Hassia
- HAMM AG
- Zollner Gmbh
- Hauni Maschinenbau Gmbh

**Our corporate development over the past 5 years:**

During its 25-year operation in Pécs, the manufacturing plant of Körber has spent 30.8 billion forints on investments. Most of them are channelled directly at production. The company is continuously expanding and upgrading its fleet in three production units – the machining, the sheet metal processing and the assembly unit. New, more modern and efficient machines include CNC machining centres, laser cutting and welding machines, spot welders, spark cutting, 3D scanner, painting equipment and sheet metal processing unit.

In addition, industry 4.0 solutions are being emphasized, amongst others through the deployment of digitalization and paperless production. More and more colleagues are using mobile devices and touch screen devices are also spreading. In many cases, Körber develops its own software solutions, as the programs available on the market are tailored to the needs of mass production, while individual machine manufacturing requires specific IT solutions.



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# KRESZ & FIEDLER LTD.

## Profile:

The quality production is combined with professional responsibility in the more than 30-year-old company. The fully Hungarian owned company successfully extended its injection molding profile with mold design, mold making and part assembly to a complex, quality assured system. The innovation based company can accept small series production and also takes part in mass production with the help of flexible production planning and high level automation.

The company produces plastic parts up to 1100 gramm from engineering plastics e.g. ABS, PP, PA, POM, PBT, PMMA, PC, SAN, PE, TPE, TPU with 25-350 tons clamping force Battenfeld, Engel, Arburg, Fanuc and Demag injection molding machines.

The products of the company is used in the healthcare, mechanical and automotive industries, in diagnostic equipment, in sport and recreational applications.

In the mold making factory mainly injection, cold and thermoforming molds are made. The company uses CAD/CAM based technology in the mold making. The design is supported by injection simulation.

## Products, services:

- Plastic part production, multi component injection molding, cable over molding, cable processing
- Mold making
- The mold making factory undertakes the maintenance and repair of injection molds and offers EDM, laser welding and mold making partial operations in lease work
- Part assembly

## Know-how and technologies:

- Usage of industry 4.0 applications and tools e.g. ERP, PDA, bar code systems, high precision electronic injection molding machines, sprue removal and 3D servo robots
- Self-designed mold making, mold maintenance and repair
- Complex plastic part production extended with assembly
- High level automation



## KRESZ & FIEDLER LTD.

address: Hungary, 7720 Pécsvárad, Pécsi út 1/1.

phone: +36 [72] 566 730

e-mail: mail@kresz.hu

www.kresz.hu



**Year of establishment:** 1990

**Number of employees:** 99

**Quality management system:** MSZ EN ISO 9001:2015, MSZ EN ISO 14001:2015

**Annual turnover:** 5 M EUR

#### **Customers, references:**

- Attract Ltd.
- Samsonite
- Rati Ltd.
- CabTec Ltd.
- Knorr-Bremse Fékrendszerek Ltd.
- Flap Competence Center Ltd.
- Fastron Hungária Ltd.
- West Instruments Ltd.
- Brunswick Magyarország Ltd.
- Precima Magnettechnik GmbH
- KaVo GmbH

#### **Corporate developments:**

They have added two new Demag IntElect2 100-tonne injection moulding machines to their fleet. With the machines, a new technology, clean room production, has become available to serve customers in the health-care industry. This technological development was the first step in this industry development, followed by the infrastructure development, the construction of the clean room plant, which is planned for the end of this year.

Their tooling facility has been expanded with a Hermle 5-axis CNC machining centre and a GF Agie Form E 600 spark-erosion machine, which will enable them to create complex geometric shapes, better surface quality and more accurate dimensions from metallic materials.

Their new Vertex 342EU 3D measuring machine allows complex geometric shapes to be measured with high accuracy.



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*www.kresz.hu*

# LAKICS MACHINE MANUFACTURING LTD.

## Profile:

Lakics Machine Manufacturing Ltd. is active in the field of machine manufacturing by applying fitting-welding and machining technologies. It operates as one integrator of the machine industry in the South-Transdanubian region. Its main profile is manufacturing of frames for motors and generators. Its main customers are leading multinational companies in the energy industry (Siemens, Vestas, GE Energy, ABB, etc). The individual and small-series structure applied in production enables intense flexibility and rapid adaptation to customers' needs. The development of the company and the activity of the top management have already been recognised by several prestigious awards.

## Products, Services:

The main profile is manufacturing and precision machining of frames and houses for wind-power plants, other electrical motors and generators. The excellent quality of products is both ensured by the cumulated manufacturing expertise recognized at European level and the considerable engineering knowledge. Currently the Company is able to manufacture work pieces up to 12,5 m in length and 4,5 m in diameter, up to a maximum weight of 25 tons per piece. Specific orders are also welcomed; the Company is capable to execute any task based on the significant innovation potential and experience in the field of product development. Stainless, corrosion resistant energy, power transmission, wind turbine welded steel structural products fabrication, machining, surface treatment





### Know-how and technologies:

The Company applies state-of-the-art technology for the production of difficult welded steel structures: CNC flame cutting, CNC precision plasma cutting, edge-bending, rolling, industrial welding technology (metal-arc active gas welding [GMAW], submerged arc welding with wire electrode [SAW], metal-arc active gas robotic welding [GMAW with robot], tube-to-tube-sheet tungsten inert gas orbital welding), stress relieving heat treatments, manual and automatic blasting, lathes (CNC carousel lathes with high precision), horizontal boring-milling machines. Measuring of the finished pieces is performed by three dimension measuring machines (Leica precision Laser Trackers and FARO precision 3D measuring arms).

**Year of establishment:** 1995

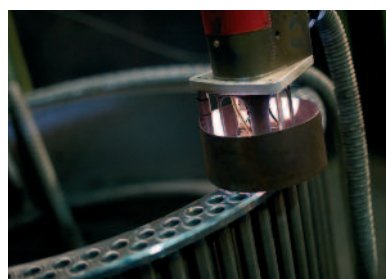
**Number of employees:** 250

**Quality management system:** ISO 9001:2015

**Welding certificates:** DIN EN ISO 3834-2, EN 1090-2 EXC3; EN 15085 CL1

**Environmental management system:** ISO 14001:2015

**Annual turnover:** 11,5 M EUR



# LOSCHÁN LTD.

## Profile:

Loschán Ltd. is mainly engaged in metalworking; it manufactures metal structures, machine parts, steel structures and sheet metal parts in small and large series, both as finished products and components. The company's specialists can produce almost anything made of metal. With their state-of-the-art machinery, they also undertake laser cutting, bending and machining of structural steel, stainless steel and aluminum materials, from the smallest parts to the most complex steel structures up to 5 tons. Thanks to more than 30 years of experience and continuous improvement, they are able to meet their customers' requests with high quality and short deadlines. Their production area already covers more than 5,000 m<sup>2</sup> in 6 production halls: machine workroom, rebar workroom, steel structure production hall, machining-, forging and injection moulding unit.

In recent years, the company has specialized in the production of precast moulds, among other things. They have been commissioned to produce moulds for retaining wall elements and motorway dividers and have also produced moulds for stadium tribunes. The Loschán Ltd. specialists have also produced canopy's, complete hall structures, metal storage frames and terrace structures. Thanks to the selected suppliers in their supply chain, all the raw materials used are certified and have quality certificates, so that their products can meet any technical and quality specifications and standards. The same high quality is applied not only to the raw materials used but also to each stage of the production process. Welding tasks, for example, are carried out by highly experienced staff in AWI and CO procedures, with a specific procedure for quality control and a dedicated welding engineer to check the results.

## Products, services:

Manufacture of metal structures:

- manufacture of complete steel structures;
- processes: pressing, tapping, drilling, threading, grinding, surface treatment.

Metalworking:

- laser cutting (including pipe laser);
- flame cutting, punching, shears, saws;
- edge bending;
- chipping, milling.



LOSCHÁN LTD.

address: Hungary, 7745 Olasz, Kossuth Lajos utca 80.

phone: +36 [69] 557-110

e-mail: loschan@loschan.hu

www.loschan.hu

### Know-how and technologies:

Laser cutting machines AMADA LC-3015 X1 NT, AMADA LC-3015 X1 NT; Ermaksan Fibermak 4 kW; machinable materials:

- Stainless steel (1.4301, 1.4404, 1.4571, etc.) 0.5-12 mm plate thickness;
- Steel (S235, S355, etc.) 0.5-15 mm;
- Aluminum between 0.5-10 mm;
- Max. workable board size: 1500 x 3000 mm.
- Pipe diameter: 20-200 mm, max. diameter of square tube: 140x140 mm, max. wall thickness: 10 mm, max. length of finished product: 3000 mm, max. length of tube: 6000 mm

Flame-cut machinable plate thicknesses: 15-80 mm.

Plate cutting shears: max thickness 20 mm, max length 3000 mm.

Saw: maximum section size 460x600 mm; for our automatic machines: 270 x 230 mm.

AMADA and Ermaksan CNC bending machines; press capacity: 220 tons, width: 3000 mm.

Machining dimensions: milling 900x500 mm; turning: 600 mm dia.

AWI and CO welding.

**Year of establishment:** 1993

**Number of employees:** 90

**Quality management system:** ISO 9001 and EN 1090-EXC2

**Annual turnover:** 3,6 M EUR

### Customers, references:

Their locksmith work is mainly for the engineering and construction industries, but they also have partners in the medical device industry and in agriculture. Their well-known reference projects include s Puskás Ferenc Stadium, the DVTK Stadium and Groupama Arena, ELI-ALPS Research Institut

### Corporate developments:

Since the inauguration of the 1,500 m<sup>2</sup> building in 2014, the factory site has been home to 6 production halls covering a total of more than 5,000 m<sup>2</sup>. Recent acquisitions: crane, plate shear, welding machines, induction furnace, welding tables, hall extraction, forging machine, rolling machine, lathe. A complex enterprise management system was implemented with the support of the Széchenyi 2020 programme, for a total amount of 90k EUR.



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# MATRO LTD.

## Profile:

Manufacturing machined components by cutting. Matro Ltd. delivers products for the passenger car, commercial and rail vehicle industry. Moreover the company supplies high quality components to customers from the pneumatic, engineering, medical and various other industries. Manufacturing standing and rotating tool holders for turning lathes.

The Matro Ltd. is one of the few companies who can simultaneously produce both small series and also very large amounts of machined and smart components. At the same time, they can effectively produce complex products of an extremely low quantity (up to 1-2) a year.

The more complex a product is, the more important it is to optimize production. This applies to both the manufacturing process and the amount of material used. As a result of their joint engineering work by their engineers and production managers, they can optimize the manufacturing processes of sophisticated components, with benefits both in production time and in costs.

MATRO's strengths is, in addition to expertise and experience, in the combination of the above characteristics. All of these properties are currently validated in the automotive industry, but their long-term plans include a more intensive presence in other markets, especially in the healthcare sector.

With using CAD/CAM system and 4-5 axis machines, Matro Ltd. is able to produce high quality tools with short deadline. The company prepare more than 200 type of tool holder, from a few pieces to hundred pieces.

The high quality is typical of Matro Ltd., they received the award of „European Supplier of 2016 Year” by the leading automotive manufacturer of the world, DENSO.

## Products, Services:

Matro Ltd. is a company with high level of technology.

- 1995 – Manufacture of brake part components for commercial vehicles
- 1997 – Additional manufacture of cutting tools for Iscar Hungary Ltd.
- 2007 – Production of tool holders standing and rotating for CNC lathes and manufacture of machine components
- 2010 – Manufacture of motor parts for passenger car



## MATRO LTD.

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



### Know-how and technologies:

CNC machine, CNC external cylindrical grinding machine, CNC centerless grinding, CNC milling, thermal deburring, laser engraving, surface treatment.

The company constantly check the manufacturing process with more special measuring instruments (contour measuring instruments, concentricity measuring instruments, roughness measuring instruments, 3D coordinate measuring instruments).

**Year of establishment:** 1991

**Number of employees:** 270

**Quality management system:** IATF16949, EMAS, ISO14001

**Annual turnover:** 11,475 M EUR

### Customers, references:

Automotive and machine industry buyers (INDEX Werke GmbH and Sauter Feinmechanik GmbH).

### Corporate developments:

- Site development investments for HUF 150 million in the past 5 years
- Tangible goods investment for HUF 900 million in the past 5 years
- Other training activities and co-operations



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*phone:* +36 [72] 548-110

*e-mail:* info@matro.hu

*u*www.matro.hu

# MAX BLANK HUNGÁRIA LTD.

## Profile:

Max Blank Hungaria Kft. manufactures high quality, environmentally friendly products, eco stoves, fireplaces, fireboxes. Their products are characterized by uniqueness and the unique on-site assembly and installation. Max Blank's products have extremely efficiency with an environmentally friendly product label ("eco stove") as well.

Their team, through decades of belonging to the manufacture, has mastered the highest quality, every day, every week, and every year pursuing this goal.

Equipping the workplace in machinery is justified where 1/100mm accuracy counts or if working conditions, such as for example in welding, polishing or painting of particular stove parts , are onerous.

On most posts in the company, however, machines cannot substitute human hand and long-year experience. It is thanks to the specialists and professionals they are able to reach theirs quality.

Nevertheless, the passion and stove brand spirit created by Max Blank stoves and fireplaces mean much more. This spirit is constantly strengthened by people, masters of their profession, who, with passion and enthusiasm, work to create something unique.

In Max Blank High Quality stove manufacture, within the scope of fine and excellent manual work, their workers design all steel stove and fireplace parts, elements or complete combustion chambers. As a next stage they are tested, constructed, produced and controlled. Only in such a way can they meet the highest quality expectations as well as serve their customers for decades and supply them in a trustworthy manner.

## Products:

- Fireplaces with solid fuel, accessories
- HHVAC (heating, ventillation and air conditioning)



## MAX BLANK HUNGÁRIA LTD.

address: Hungary, 7754 Bóly, Ipari park II.

phone: +36 [69] 569-810

e-mail: heilmannmaria@boly.hu, schnellrajmund@boly.hu

www.maxblank.com

### Services:

- Metalworking
- Lease-work
  - Sheet working
  - Laser cutting
  - Metal bending
  - Metal rolling
  - Painting
  - Grain coating
- Welding by experts and robots
- Surface preparation

### Know-how and technologies:

- 6Kw Trulaser 3030 Fiber laser cutting machine with rotolas device (for pipes and closed profiles)
- 2Kw Trumatic 3030 L laser cutting machine
- TrumaBend V 1300 bending machine
- TruBand 7036 bending machine
- Faccin HCU 1550x3 rolling machine
- Cloos Qirox QRC 350-E welding robot
- Reis grinding robot
- Co welding machines
- AWI welding machines
- Corner grinding machines, vibrating grinding machine, pipe grinding machine, superficies grinding machine,
- Agtos grain coating device
- Painting device with conveyor system

**Year of establishment:** 1996

**Number of employees:** 85

**Quality management system:** Tüv Bayern

**Annual turnover:** 4 M EUR

### Customers, references:

Manufacturing of Eco Fireplaces for the West European market, for individual buyers.



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

# METAL-WORK 2003 LTD.

## Profile:

Metal-Work 2003 Ltd. started its operation in 1999. The company's first activity was wire-cutting, and then it expanded its activity to tool design and manufacturing. Nowadays, the company operates in a 2000 m<sup>2</sup> hall equipped with a crane. They provide a wide range of services: wire cutting, tool manufacturing, CNC milling, component manufacturing and 3D machining. They have continuously improved their technology and machines and have expanded their team with the most qualified specialists. Therefore, today they can also deal with zero and small-scale extrusion. Over the years, they have added the design and production of measuring and control equipment and prototyping to their profile.

## Services:

- 3D machining
- Manufacture of components
- CNC milling
- CNC machining
- Zero and small-scale extrusion
- Wire eroding
- Design of measuring and controlling tools
- Prototype manufacturing
- Tool design, repair, modification
- Tool manufacturing

## Products:

- Bending tools
- Cold-forming tools
- Drawing tools
- Blanding dies
- Punch presses
- Moulding dies
- Pressing tools
- Progressive tools
- Series production tools



## METAL-WORK 2003 LTD.

*address:* Hungary, 7150 Bonyhád, Zrínyi Miklós u. 25.

*phone:* +36 [74] 450-903, +36 [30] 2270274

*e-mail:* [info@metal-work2003.hu](mailto:info@metal-work2003.hu)

[www.metal-work2003.hu](http://www.metal-work2003.hu)



### Know-how and technologies:

- Agiecut wire-cutting machines
- DMF220 Linear milling machine
- Deckel Maho machining centres
- 500 ton press machine
- CadCAM, SolidEdge, SolidWorks, SolidCAM, iMachining, EdgeCam and PEPS V5.3.11 design software
- Maximum tool size capacity: 3000x1200x1200 mm, up to 12 tons

Maximum machining ranges:

- For wire cutting, maximum height: 420 mm
- Machining centre: 2200x560x700 mm
- Pressing: up to 500 t

**Year of establishment:** 1999

**Number of employees:** 14

**Quality management system:** MSZ EN ISO 9001:2009

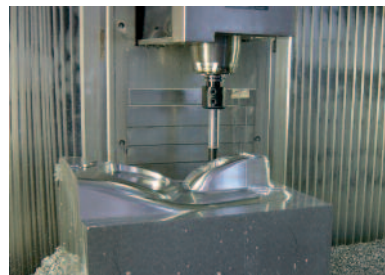
**Annual turnover:** 1,1 M EUR

### Customers, references:

Solvaro Kft., A.O. Smith Kft., BHG-ASZ Kft., GESTAMP Hungária Kft., Kienle+Spiess Kft., Körber Hungária Gépgyártó Kft., Momert Rt., Mevaco GmbH, PS: DESIGN+PROTOTYPING GMBH & CO KG., Werkzeugbau Martin.

### Corporate developments:

Between 2010 and 2013, the floor space of the hall was expanded in 4 phases, currently 1920 m<sup>2</sup> of 2×5 t built-in modern air-conditioned workshop is available with brick crane.



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[www.metal-work2003.hu](http://www.metal-work2003.hu)

# MIG-TIG LTD.

## Profile:

Mig-Tig Ltd. activity is essentially related to welding technology. Initially the company used to deal with welding materials, welding equipment distribution and service. Over the years, besides welding consultancy they started the training of welders and qualified welders. Welding fume extraction, protection of welders and work environment safety is closely related to the hazards of welding. Therefore activity was completed with the installation and distribution of extraction systems.

At present Mig-Tig Ltd. is the warranty service provider of equipments produced by ESAB Ltd. and Kappa GmbH. On behalf of ESAB Ltd. our company undertakes the installation of automatic welding machines and flame cutting machines both within Hungary and abroad.

Welding technology requires constant supply of technical gases, therefore Mig-Tig Ltd. have been operating as the industrial gas depot.

Currently, emphasis is put on the training of junior specialists by training welders and qualified welders, furthermore training of fitters based on available workshop facility and huge expertise of trainers. The practical training of apprentices is performed by high skilled workers and technicians with wide experiences. Engineering-teachers are also subcontracted to participate in adult training projects.

## Products, Services:

- Sale of welding materials
- Sale of welding machines
- Distribution of industrial gases
- Sale of safety equipment
- Technical consulting
- Training
- Welding machine service
- Comprehensive preparation for an EN ISO 3834, and EN 1090 quality audit



## MIG-TIG LTD.

addresses: Hungary, 7694 Hosszúhetény Verseny u. 27.

7300 Komló, Patak utca 10, 7300 Komló, Ipari út 6.

phone: +36 [72] 486-328, +36 [20] 967-0672, fax: +36 [72] 581-189

e-mail: postmaster@migtig-t-online.hu, bartas@t-online.hu

www.migtig.hu

### Know-how and technologies:

Preparation, design and management of special welding related tasks with subcontractors.

**Year of establishment:** 1998

**Number of employees:** 10

**Quality management system:** Certified welding according to EN 1090-2. In cooperation with TÜV Rheinland InterCert Kft., We certify welders and welding machine operators according to EN ISO 9606-1 and EN ISO 14732 as its certified examination base.

**Annual turnover:** 0,39 MEUR

### Customers, references:

- Kappa GmbH
- TÜV Rheinland InterCert Ltd.
- SLV Hannover
- SZTÁV Plc.
- Air Products Ltd.
- Cooptim Ltd.
- ESAB Ltd.
- Flexovit Ltd.
- KKV Trade Ltd.
- Mixomat Ltd.
- Lakics Ltd.
- AquaCut Ltd.
- Strauss Metal Ltd.
- Minorits Ltd.
- Gépszer Ltd.
- Hidrot Ltd.
- Transport Beton Ltd.
- Barcs Metal Ltd.

### Corporate developments:

- Material testing



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*e-mail:* postmaster@migtig-t-online.hu, bartas@t-online.hu

www.migtig.hu

# MINORITS GÉPGYÁRTÓ LTD.

## Profile:

Minorits Machine Factory Ltd. is an expert in bending, rolling, cutting, welding and assembly technology. The Minorits Machine Factory Ltd., founded almost 30 years ago, manufactures parts and components requiring high expertise and high quality production technology. The company intentionally strives to be able to undertake complex orders that outperform the capabilities of an average supplier so the price would not be its only competitive advantage.

The Minorits Ltd. has all technologies for machine manufacturing, from preparation, locksmith work, welding, sheet metal working to surface treatment.

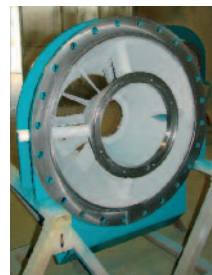
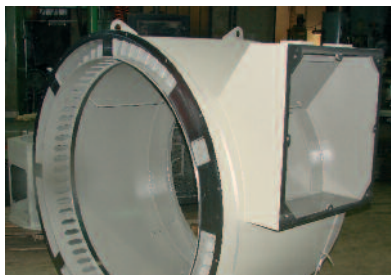
The prime profile for the Minorits Machine Factory Ltd. is the lease-work, but the company produce self-developed products as well.

## Products, Services:

- Components of windpower plant: slip-ring houses, spoilers, refrigrants, heat exchangers
- Components of waterpower plant: turbine-pits, tubings, water deflector devices
- Components of cement industry: pistons, tubings, floating tracks, distributor cabinets
- Components of thermal power plant: tubings, chain conveyors, bucket elevators
- Cyclones, valve knife meter, weight locks, floating conveyors, material slides
- Machine manufacturing for agricultural sector
- Own product: boat container

## Know-how and technologies:

Flame cutting, sheet rolling, bending, CNC machining center, carousel turning, profile steel rolling, cutting, welding (CO<sub>2</sub> gas, MIG / MAG, TIG), surface treatment (sand blasting, painter cabin). The company has all those technologies which is needed to make raw materials to surface-treated, painted product. The Minorits Ltd. continuously develop these technologies, both in the connecting competences and in equipment side in order to provide the best innovative solutions to customers.



## MINORITS GÉPGYÁRTÓ LTD.

address: Hungary, 7453 Mernye, Petőfi Sándor u. 50/c.

phone: +36 [20] 269 2297

e-mail: [office@minorits.hu](mailto:office@minorits.hu)

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



**Year of establishment:** 2008

**Number of employees:** 30

**Quality management system:** MSZ EN ISO 9001:2009, DIN EN ISO 3834-2

**Annual turnover:** 1,9 MEUR

**Customers, references:**

- Ubas GmbH
- Hitzinger GmbH
- Lakics Ltd.
- PM-Technologies GmbH
- KVGY Ltd.
- DEMAG-TEREX Ltd.
- Hanse Hungária Ltd.
- OT-Industries GmbH

**Corporate developments:**

- Modernization of the MC 1250 machining center



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*phone:* +36 [20] 269 2297

*e-mail:* office@minorits.hu

*www:* minorits.hu

# UNIVERSITY OF PÉCS FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY

## Profile:

The Faculty of Engineering and Information Technology with its many thousand students and 40 years experience is one of Hungary's biggest and most colourful educational institution. It is the stronghold of engineering education of South-Danubian region and a determining centre of Hungarian scientific technical life.

The 8 basic training programmes cover technical, artistic and information technology related fields of study in the following branches: architecture, civil engineering, environmental engineering, electrical engineering, information technology and architectural design. Their higher level vocational training for producing television programmes is also popular. Their students can choose from 10 Master Degree programmes mainly in the fields of architecture, architectural design, civil engineering and information technology. Since September 2014 students could opt for undivided training in architecture, Architect Designer DLA and Architectural Engineering PhD, and from September 2015, IT Engineering BSc and MSc programmes, and a Civil Engineering BSc, Structural Engineering MSc programme is also available as English language programmes.

In September 2015 practice-oriented dual training programmes are also launched with participation from industries and companies within the BSc programmes of Architectural Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Information Technology Engineering and Environmental Engineering. For those graduates who already have a degree we offer 13 different postgraduate specialist training courses. They have 135 lecturers, 82 of them have a PhD or DLA degree and 29% have reached the qualification of habilitation. Several of our lecturers are Doctors of the Hungarian Academy, several lecturers have artistic awards, and three are members of the Hungarian Academy of Art, one is a member of the Hungarian Academy of Sciences, 13 lecturers are holders of a candidate degree and we have three full-time researchers. More than half of our lecturing staff is under the age of 50.

The refurbishment of the 20,000 m<sup>2</sup> educational and research building complex was completed in 2007-2008 with an investment of 3.5 billion Hungarian forints. As part of the campus, the dormitory, which can accommodate 800 students, was renewed and double rooms with bathrooms were created. During the comprehensive refurbishment of the faculty buildings, classrooms were equipped with air conditioning and modern multimedia equipment. State-of-the-art instruments and equipment were installed in the labs adjacent to the main educational building.



PÉCSI TUDOMÁNYEGYETEM  
Műszaki és Informatikai Kar

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phone: +36 [72] 503-650 / 22808

e-mail: titkar@mik.pte.hu

www.mik.pte.hu

## Products, Services:

From 2006 on students can apply to and graduate from seven BSc majors: civil engineering, mechanical engineering, electrical engineering, environmental engineering, IT engineering, construction engineering and teacher of technical studies (technical trainer). There are two MSc majors: architecture and IT engineering. Students could choose among wide scales of higher form of technical trainings eg. assistant of mediatechnologies, producer of TV programs and assistant of electrical engineer. Beside these short term postgraduate specializations are available too. Dual tertiary education in Engineering was started in September 2014. Together with participants of economic life, teachers, researchers and the best students are taking part in region's Research + Innovation activity. Trainings in english language: Architecture, DLA programme in Architecture, PhD programme in Architectural Engineering, Civil Engineer, Civil Engineer (Structural Engineer), Computer Science Engineering (BSc), Electrical Engineering (BSc), Computer Science Engineering (MSc)

Cluster members participate in dual tertiary education:

- Büttner Ltd.
- CADSOL Ltd.
- GLT Delta Ltd.
- Körber Hungaria Gépgyártó Ltd.
- Lakics Ltd.
- Matro Ltd.
- Sampo ltd.
- Staruss Metal Ltd.
- Seres Ltd.
- Ziehl-Abegg Ltd.
- Kaposvári Villamossági Gyár Ltd.
- KON TAKT-Elektro Ltd.

## Know-how and technologies:

Graduated students have excellent work possibilities on labour market. There is a significant focus on practical side of trainings at the Faculty. A part of this is the four weeks long summer special practice. In cooperation with leaders of industry the annually organized „Pollack special days” is an outstanding event of the Faculty. Developing trainings and life-like projects based on individuality of students also share parts in technical trainer education.

**Year of establishment:** 1970

**Number of employees:** 400

**Quality management system:** MSZ EN ISO 9001:2009



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www.mik.pte.hu

# SAMPO FOOD INDUSTRY ENGINEERING LTD.

## Profile:

In the field of poultry and meat processing our company provide complete processing technology from picking through evisceration and cutting to finished product packaging.

The main activity of the company is the design, manufacture and installation of the technology of poultry processing plants with a capacity of 500 to 10,000 pcs/hour depending on the type of the poultry. Our 25 years of expertise enables to provide internationally recognized quality service to our customers.

We are proud to become the exclusive supplier of the Hungarian representation of MEYN Food Processing Technology B.V., a worldwide trade-mark over 50 years in the field of poultry slaughtering and processing techniques (in 200 countries).

## Products, Services:

- Design, manufacture and assembly of complete poultry slaughterhouses (for chicken, turkey, duck and goose), processing plants and machinery
- Design, manufacture and assembly of pig and cattle slaughterhouses
- Manufacture of customized machinery and equipment
- Reconstruction and refurbishment of existing machinery and equipment
- Manufacturing sanitary equipment for the food industry plants
- Design and manufacture of belt-conveyors and belt systems
- Distribution of modular belts



## SAMPO FOOD INDUSTRY ENGINEERING LTD.

address: Hungary, 7673 Kővágószőlős, Golgota 507.

phone: +36 [72] 564-400

e-mail: [sampo@sampo.hu](mailto:sampo@sampo.hu)

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



### Know-how and technologies:

Our manufacturing process meets the technical safety requirements and sanitary standards of the European Union that is verified by CE marking. Our machines can be freely distributed and operated in the whole territory of the European Union.

**Year of establishment:** 1990

**Number of employees:** 45

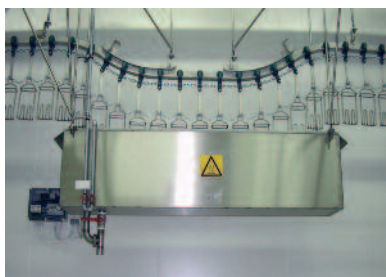
**Annual turnover:** 4,4 M EUR

### Customers, references:

Domestic and international (German, Austrian, Slovenian, Ukrainian, Russian) food industry plants, mainly poultry and meat companies.

### Corporate developments:

- Site development and asset investment in the amount of HUF 100 million in the last 3 years
- Establish strategic partnerships with key players in the international food industry manufacturing market



# SCHNEIDER FÉMIPARI LTD.

## Profile:

Schneider Fémipari Kft. was founded in 1991 as Schneider Lp. and from 2004 it continued its activities as Schneider Fémipari Ltd. The company's main profile is steel structure manufacturing, mainly designing, manufacturing and assembling industrial steel structures. They undertake the complete construction of industrial halls, roof structures, locksmithery work for residential complexes, the manufacture of stainless steel products, as well as turning, milling, cutting and edge bending.

## Products, services:

- Manufacture and installation of steel structures for buildings
- Manufacture and assembly of industrial steel structures, machine supports, staircase structures
- Manufacture of railings, window grilles, fences, galvanized, painted and stainless steel
- Manufacture of stainless steel and aluminium structures
- CNC sheet metal working
- Machining
- CNC tube bending

## Know-how and technologies:

- Sheet metal working machines: hydraulic sheet shears, CNC edge benders, hydraulic edge benders, sheet rollers, fine-jet CNC plasma cutting machines
- Universal lathes
- Drilling machines: radial drilling machine, pillar drilling machine, presses, hydraulic cutting-punching-pressing machine, pneumatic press
- Pipe and bend rolling machines: CNC mandrel bending machine, pipe and fitting rolling machine, mandrel-less pipe bending machine
- Cutting and sawing machines: disc cutter, band saw
- Welding machines
- Other machines: spot welding machine, belt grinding machine, penetration grinder, bench grinder, plasma cutter, hydraulic self-propelled assembly stand



## SCHNEIDER FÉMIPARI LTD.

address: Hungary, 7720, Pécsvárad, Ipartelep hrsz. 1818.

phone: +36 [72] 465-583 (workshop)

e-mail: schfem@t-online.hu

www.schneiderfem.hu

**Year of establishment:** 1991

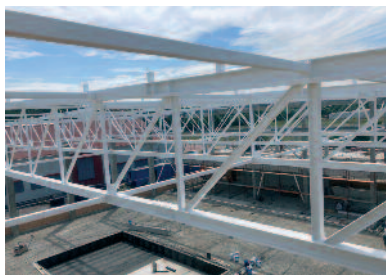
**Number of employees:** 24

**Quality management system:** EN 1090 - 2, EXC2, EN ISO 3834 - 2

**Annual turnover:** 1,5 M EUR

### Customers, references:

- Manufacture and installation of steel structures for the Thyssen Camshaft building (Jászfényszaru)
- Family Center Szekszárd (steel structures, advertising pillar)
- Sipospack Reklám- és Csakolóanyag Gyártó Ltd.
- Dongwha Sósút project steel structure production, installation
- Seiren Pécs project roof machine supports
- Steel structures for Mc Donald's Pécs
- Rátgéber Academy Pécs Office Building and Rehabilitation Centre
- Knowledge Centre Szekszárd steel structures
- Inzi Komárom steel structures
- Steel structures of the M6 Motorway Engineering Agency Babarc site
- Steel structure of the new sports hall of Baár-Madas Reformed Secondary School, Primary School and College
- Kométa Kaposvár project office extension
- Fabrication and erection of steel structures for Warema varnishing building, Pécs
- Construction of steel structures and railings for 85-apartment building in Balatonszemes
- Enchem Komárom project
- AAT-Siemens-Volkswagen project, Hannover
- Mercedes DLZ factory hall conversion project, Kecskemét
- Richter BKK project steel structures for conversion works



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

# SERES MECHANICAL ENGINEERING AND TRADING LTD.

## Profile:

The SERES Mechanical Engineering and Trade Ltd. is a Hungarian enterprise dealing with the manufacture and recondition of superstructure of communal vehicles including hydraulic equipment and machine service.

## Products, Services:

Manufacture, recondition, repair of:

- Communal superstructures, hydraulic equipments, waste collecting superstructures (storage tank: 4 m<sup>3</sup> – 22 m<sup>3</sup>)
- Container transporting superstructures (load capacity: 2 t – 16 t, fixed or telescopic design, end or side load)
- Tilting and fixed platforms (Carrying capacity: 2 t – 24 t)
- Salt spreading equipments, snow ploughs and rotary snow plough (Storage tank: 1 m<sup>3</sup>-8 m<sup>3</sup>)
- Vehicles (superstructures) for transporting water and liquids and watering equipments
- Design, manufacture and operation of superstructure and target oriented weight measuring and container identification systems
- Multilift system rolling container transporter bodyworks with 20 t lifting capacity
- Production of glass transport rolling container
- Hydraulic cylinders

Distribution, sales:

- Hydraulic machine parts, flexible hoses and of sealing elements

## Know-how and technologies:

CAD, CNC machining (cutting), plasma cutting and gas-shielded arc welding.



## SERES MECHANICAL ENGINEERING AND TRADING LTD.

address: Hungary, 7630 Pécs, Ipari Park, Bajor u. 2/1

phone: +36 [72] 526-666, fax: +36 [72] 526-777

e-mail: [info.pecs@seres.hu](mailto:info.pecs@seres.hu)

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





**Year of establishment:** 1996

**Number of employees:** 95

**Quality management system:** ISO9001, ISO14001, ISO45001

**Annual turnover:** 7,2 MEUR

### **Customers, references:**

Performers of the waste management sector in Hungary and abroad and municipal communal business organizations.

### **Corporate developments:**

In the year of 2017 we handovered a new 1400 m<sup>2</sup> big hall (bay) at our Barcs Site furthermore we purchased a 6 m long Baykal bending machine. In December of 2017 started a new project in value of approx 450 million HUF in Barcs in the frame of the competition GINOP 1.2.1. In 2019 our company installed a new 800 m<sup>2</sup> big painting and blasting hall in western-european quality, furthermore we purchased approx 50 machines and equipments.



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*www:* www.seres.hu

# SOLAR FM LTD.

## Profile:

Solar FM Ltd. has been building and operating solar power plants since its foundation in 2017.

They undertake the complete design, construction, operation and maintenance (e.g. mowing, compulsory maintenance, cleaning) of solar farms. The company has the machinery to carry out the main construction processes.

Solar FM Ltd. has also been active in the field of electromobility since 2019, which includes the sale, operation and servicing of charging stations. They consider it important to provide the professional service solutions required by car chargers in order to be able to quickly rectify any faults. Their staff cover all segments of electric transport.

They won the Green Bus Programme's tender and become a supplier of the initiative.

## Products, services:

Solar Park:

- Design
- Design and construction
- Operation
- Design, construction, installation, operation and maintenance
- Maintenance, grounds maintenance
- Data provided by MEKH, MAVIR
- Electrical inspection of solar panels, visual inspection
- Inverter maintenance
- Transformer station maintenance
- Provision of data connection
- Operation of security system, system installation

Electric car charging network:

- Sale of charging equipment



**SOLAR FM**

**SOLAR FM LTD.**

address: 7300 Komló, Altáró u. 8.

phone: +36 [30] 600-7499, +36 [30] 499-5653

e-mail: [info@solarfm.hu](mailto:info@solarfm.hu)

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

#### Charging station operation:

- Maintenance and repair of ABB, DBT, EVoPro, ENEL-X, Siemens, Tritium charging equipment
- Maintenance planning
- Maintenance and repair of electrical and mechanical systems, replacement of filters
- Electrical switchboard maintenance and repair
- Maintenance and repair of building structures and concrete foundations
- Carrying out ad-hoc repair tasks with remote monitoring system and outbound service
- Supply of parts and materials
- 24-hour on-call service to deal with breakdowns
- Provision of a helpdesk service with dispatcher and multilingual helpdesk service, Internet-based fault reporting system

#### Technical express service:

- Troubleshooting and repair, planned preventive maintenance, procurement of materials
- Provision of temporary power supply in the event of a power cut
- Minor renovation and refurbishment work (painting, foiling, replacement of safety glass)

**Year of establishment:** 2017

**Number of employees:** 6

**Quality management system:** ISO-9001

**Annual turnover:** 2,29 M EUR

#### Customers, references:

MVM OVIT Zrt., Kapos Holding Zrt., Kaposvári INERT Zrt., Helios Solar Group, Pannonia Solar Zrt., Green Bus Program

#### Corporate developments:

Ginop+ 1.3.1 Green National Champions tender support the construction of the new factory hall. The project started in 2022 with a budget of 8,25 M EUR, the expected completion is in 1,5-2 years. The machine factory will be used to manufacture rotatable solar panel holders. The company's machinery will be expanded with a tube laser with a 3D cutting head, plasma cutter, edge bender, welding machine and cutting machine. This will enable the company to offer a more complex and higher quality service to both existing and new customers.



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*www:* www.solarfm.hu

# SOMAPAK LTD.

## Profile:

SOMAPAK Ltd. was founded in 1986 as a Hungarian-Italian joint venture company for manufacturing packaging machines. Since 1995, the company has been in 100% Hungarian ownership. The company's profile and fields of activities are expanding year after year according to market demands. Thanks to significant and continuous investments, recently the company's fields of activities contain manufacturing special purpose machines, CNC manufacturing technology, sheet-metal technology.

Our machines and equipments can be found in many countries of the World with a wide range of applications, typically used in the food, chemical, pharmaceutical, automotive, electronics and construction sectors.

## Products, Services:

- Packaging machines: filling machines for liquid and solid products, capping machines, labeling machines, bag and sachet forming-filling-sealing machines for powders, granulates and liquids, dosing equipments, complete technology lines
- Special purpose machines, complete production and technology lines
- Elevators, transport conveyors, steel and aluminum structures upon customers' needs
- Blenders and mixers for solid and liquid materials
- Technology assembling
- CNC manufacturing technology: milling, turning, sheet-metal technology (shearing, bending), plasma- and flame cutting
- CNC fiber laser technology for cutting sheets and tubes



## SOMAPAK LTD.

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*phone:* +36 [72] 325 120

*e-mail:* somapak@somapak.hu

*www:* somapak.hu



### Know-how and technologies:

Beside manufacturing packaging machines and special purpose machines, we have significant capacity in CNC manufacturing such as: CNC milling, turning, sheet-metal technology (shearing, bending), plasma- and flame cutting, CNC fiber laser technology for cutting sheets and tubes. Also we have experience and capacity in different welding and surface finishing technologies. The engineers of our development department are working with 3D CAD/CAM softwares, the complete production is made by our own workshops such as machining, sheet-metal technology, welding, assembling, testing etc. All after-sale services are provided by our company.

**Year of establishment:** 1986

**Number of employees:** 52

**Quality management system:** ISO 9001, ISO 14001

**Annual turnover:** 4,5 M EUR

### Customers, references:

More than 600 partners in the country, in the EU and in other parts of the world to the food, chemical, mechanical, electronics, automotive, construction, etc. areas.

### Corporate developments:

Site development, assets investment, software procurement ca. for 4 M EUR in the last 5 years.



**SOMAPAK LTD.**

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# SPINNER HUNGÁRIA LTD.

## Profile:

The SPINNER group has a history spanning over 75 years, employing more than 900 people worldwide, with subsidiaries and representatives in over 40 countries. SPINNER Hungária Kft. was established in 1997 as the Hungarian branch of SPINNER. The 4,000 m<sup>2</sup> manufacturing facility produces individual components for coaxial connectors and complete assemblies, which are among the leading products of the corporate group. The most advanced CNC lathes enable the production of everything from simple parts to complex turnkey solutions, while their highly skilled and experienced staff quickly assemble the units, ensuring consistently high quality.

SPINNER Hungária Kft.'s plant houses one of the most advanced electroplating systems in Hungary. It is capable of applying almost every necessary coating to coaxial connector components, including silver, nickel, tin, copper, and MIRALLOY® alloy coatings made from copper, tin, and zinc.

## Products, services:

- Surface treatment: electroplating - silver, nickel, tin, copper or MIRALLOY
- Turning of plastic insulating elements
- Conversion of components into connectors, assembly of more than 1 million SPINNER cable connectors per year
- Assembly of surge arresters and radar motors
- Subcontracting



## SPINNER HUNGÁRIA LTD.

*Headquarters:* Hungary, 1133 Budapest, Váci út 76.

*Manufacturing Site:* Hungary, 7100 Szekszárd, Selyem utca 2.

*Phone:* +36 [74] - 505-888

*Email:* [info-hungary@spinner-group.com](mailto:info-hungary@spinner-group.com)

[www.spinner-group.com](http://www.spinner-group.com)

### Know-how and technologies:

- 1-6 spindle automatic bar lathes and manual machining machines
- CNC lathes
- Laser engraving: engraving of materials and surfaces
- Assembly: Pneumatic presses, rotary table presses, rollers, labelers, Autobag foiling
- Toolmaking and grinding shop: custom tooling, grinding, sharpening, toolholders; KON 250 optical grinders

**Year of establishment:** 1997

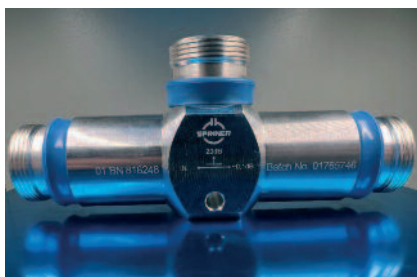
**Number of employees:** 103

**Quality management system:** DIN EN ISO 9001: 2015, DIN EN ISO 14001: 2015, DIN EN ISO 50001: 2018

**Annual turnover:** 5,5 M EUR

### Customers, references:

- SPINNER GmbH



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# SPITZER SILO PÉCS LTD.

## Profile:

Spitzer Silo Group looks back to a long tradition. The family owned company was founded in 1872 by Johann Spitzer and in its early years specialised in the manufacturing and sales of agricultural products.

The year 1950 became an important milestone in the company's history. Development and production of the first dry bulk tanker to transport cement and soda made the long-established company to become the pioneer in the production of the aluminium vessels for dry bulk tankers. Since the end of the 60s, Spitzer concentrated on dry bulk tankers development and production and has been constantly investing in improving of the products to the perfection.

Nowadays, the Group operates internationally and is one of the leading manufacturers of dry bulk tankers and truck-mounted units. When it comes to design and production of customised trucks, Spitzer Silo has a very extensive range of know-hows at its disposal. This knowledge has been built up over many years. Indeed, Spitzer is a pioneer in this particular segment – the first dry bulk tanker that ever came on the market the name of Spitzer.

The Spitzer-Group has an international presence.

The Spitzer-Group is manufacturing in Germany, France and Hungary with a total of 3 production facilities:

- The headquarter in Elztal-Dallau has a production area of 325 000 m<sup>2</sup>
- Approx. 420 employees work in the company
- Almost 1000 vehicles leave the factory facility of the Spitzer-Group annually

Manufacture and maintenance of aluminium silo vehicles in Pecs, used for transporting bulk powdered and granulated materials, silage and ADR goods used in the construction material, food, chemical and agricultural industries. Spare parts supply available from stock.

Conducting authority inspections (pressure vessel commission, periodic check, technical inspection, foodrating, etc.).



## SPITZER SILO PÉCS LTD.

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e-mail: [pecs@spitzer-silo.hu](mailto:pecs@spitzer-silo.hu)

[www.spitzer-silo.com](http://www.spitzer-silo.com)



### Products, Services:

- Semi-trailers (SF) with 20-62 m<sup>3</sup> net volume, 2-5 discharge cones, 2-8 chambers, vacuum (for suction), even for ADR transportation of hazardous materials
  - Tipping type semi-trailers (SK) until 40-89 m<sup>3</sup> net volume, vacuum (for suction), even for ADR transportation of hazardous materials
  - Truck mounted silo units (API) 24-31m<sup>3</sup> net volume, 3-4 discharge cones, 3-8 chambers
  - Full trailers and tandem trailers (SAPI, ZA) 18-33m<sup>3</sup> net volume, 2-3 discharge cones, 2-6 chambers
  - Containers (CK) 20ft/26m<sup>3</sup>, 30ft/42m<sup>3</sup>, 40ft/56m<sup>3</sup>
- Any type of vehicle is pressure vessel for 2 bar operating pressure.

### Know-how and technologies:

Expectations on modern transportation and logistics companies are constantly growing. Spitzer have been providing constantly high quality for many years and thereby offering a safe investment in the future: tankers and special vehicles meet the market demand - now and in the future as well.

**Year of establishment:** 1992

**Number of employees:** 70

**Annual turnover:** 8,926 MEUR

### Customers, references:

Dry bulk tankers for transportation of pulverised and granulated materials, such as building materials, food, animal feed, chemical products and hazardous goods.

### Corporate developments:

- Construction of new pickling plant
- Purchase of AMADA 7 axis bending machine
- Purchase of AMADA plate cutting machine
- Purchase of 8 x 2,5 plasma cutting machine
- Complete window structure renovation of tank manufacturing plant



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# STANG BÁDOGOS LTD.

## Profile:

Stang Bádogos Ltd. has been carrying out tinsmith work and sheet metal roofing since it was founded in 2004 (before that, as a sole trader in 1999). Later they started to do flat roof insulation, contract manufacturing and assembled facade cladding. Over the years, they have won Roof of the Year awards for facade cladding and flat roof insulation, several niche and category awards for sheet metal cladding, and the 2017 World Championship title. In 2021, the company moved to its new site in Bóly, where a thin sheet processing plant has been set up, where they are involved in edge bending up to 8,2 m, strip slitting, slabbing, profiled cladding and roofing. The aim is to achieve a similar level of success in thin-sheet machining. They provide a wide range of services and high quality custom sheet metal products to tinsmiths, hall builders, flat roof insulators, shade manufacturers and window and door manufacturers.

## Services:

- Tinsmith work: drainage and edging of industrial, residential and non-residential buildings
- sheet metal roofing: strip and slab sheet metal roofing on modern and listed buildings
- slate roof insulation: waterproofing of slate roofs and substructures, using PVC, FPO, bitumen and kent insulation technologies
- assembled facade cladding: small slabs and large slabs of metal sheet, composite sheet, fibre cement, HPL panels, in accordance with modern requirements
- thin sheet processing: edge bending up to 8.2 m, slitting and slab cutting up to 2 mm thickness from rolls of up to 5 tonnes, profiling, punching, cutting

## Products:

- edge folded products: cornice cladding, attic cladding, fascia board, gable end, wall cornice, storm slats, zaluzia cabinet, shutter box, lath and batten sheet metal cladding, mirror cladding, rhombus cladding, foil tiled eaves and drip mouldings, hall mouldings, starter profile, omega, attic, corner nailing, door and window mouldings, casings, boxes, trays, ventilation shutters
- profiled products:
- 25 mm double standing seam for roofing; further machining of these: straight and curved seam end trimming, making bends and rebends, arching on bellows from radius r 500



- 25 mm click cover for roofing; further machining: trimming of cork ends, bending and folding
- 25 mm shadow joint strip cladding ( steckfalz panel ); further machining: trimming of ends, boxing, this technology can also be used to produce slab cladding

### Know-how and technologies:

- profiling, slabbing, rolling, punching, punching, cutting

The thin sheet machining used by the company is very efficient and economical, as a large part of the raw materials is machined from strip sheet. Both slitting lines are capable of handling 6 sheet rolls at the same time, thus reducing the time needed for roll changes. Both slitting lines can simultaneously straighten, slit and slab, so you can have a straightened slab within minutes. From there, it's just a matter of driving the products on NC and CNC bending machines and they are ready to be packaged.

They can machine strip sheet up to 2 mm thick. In 1 mm thickness they can edge bend up to 8,2 m length, in 1,5 mm thickness up to 6,4 m length, in 2 mm thickness up to 4 m length.

Even with its current technologies, the company already has a unique portfolio in Hungary in the field of thin sheet machining, which it expands with CNC punching technology.

**Year of establishment:** 1999. sole proprietorship, since 2004 Ltd.

**Number of employees:** 26

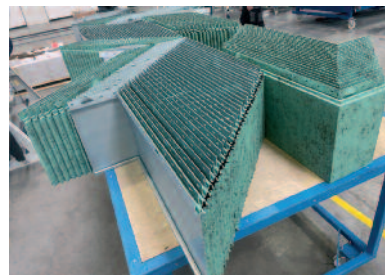
**Annual turnover:** 2,03 M EUR

### Customers, references:

- Aquacut Ltd., Spitzer Silo Pécs Ltd.
- Wineries: Bock, Günzer, Sauska, Stier, Teleki Winery
- Paks Clinic, ASE sporthall, Suzuki salon in Kozármislenyi, Aldi stores nationwide
- Mecsek Áruház, Dóm Kőttár, Pellérdi Primary School, Szent Mór School gymnasium

### Corporate developments:

The continuous infrastructural and technological improvements of the Ltd. have been accelerated since 2010, partly with the help of subsidies. The company's continuous improvement of its facilities has been supported by a number of projects from 2010, including a 1,08 M EUR site development and a 1,36 M EUR investment in machinery.





# STRAUSS METAL LTD.

## Profile:

The Strauss Metal Kft. has been manufacturing and distributing its own products made with sheet-metal working for 30 years. Since its founding, it has been continuously present in the Hungarian market as the leading manufacturer of safes in Hungary. More than 600 different kinds of products are sold under the Strauss Metal brand. The products are 100% Hungarian made and are self-developed, fabricated in a manufactory with high-tech technology and are fully in line with European quality standards. As specialists of security technology, the product portfolio is comprehensive for retail, corporate- and bank security, money handling equipment, safes and for other value preservation. The Strauss Metal safes are popular throughout the country and abroad, as proven by our sales history.

## Products, Services:

### Money management:

- multisafes, cash-desks, bulletproof transaction counter
- cash register, cash drawer, banknote trap
- money cassettes, cash deposit boxes, plastic tills, cashier counter, codex cassa

### Valuestorage:

- furniture safes: Orion safe, Trafik, Fortuna, Nova safes, Orion laptop safe
- safes: for SN-D, SN-E, SN-G type, E-I, M-K, M-M type
- drop-inproducts: drop-insafes, supertills, nighttresors, cash depositsto EU IX.
- vaultrooms:vaultroomdoors, modularvaultrooms, safedepositboxes
- value storage in hotels: reception safes, room safes

### Metal cabinets:

- document management:documentcabinet, safetycupboard, fire-proofdocumentcabinet, cabinetswithdrawer)
- Weaponsstorage:guncabinets, pistolsafes
- chemicalssafes, lockers, multicompartmentvaluecontainers, workshop cabinets

### Key management:

- keyboxes, emergencykey-safes
- intelligentkeybox
- keystoragewith a palsticine lock

### Clientcontrolsystems:

- informationdesk, customercallingsystem
- cash machines: Petrolmat, e-Tankautomat, ATM
- electronicCityBikedockingandcontrollingsystem
- passengerinformationsystems



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### Know-how and technologies:

Our company installed a Japanese-made MAZAK Fiberlaser cutting machine, Soyer CNC stud welding machine, manual laser welding machine as well as an Up Down Bend bending machine. Due to the machine acquisitions the manufacture has been able to produce European-level quality in the field of sheet technology, which has made our company a market leader in Hungary. In the same year, several fork-lift trailer were purchased to the warehouse. Within a total area of 4.700 m<sup>2</sup>, our production capacity is provided by 110 metal-working machines, most of which are support CAD/CAM technology.

**Year of establishment:** 1992

**Number of employees:** 40

**Quality management system:** ISO 9001:2018, ISO 14001:2015

**Annual turnover:** 0,806 M EUR

### Customers, references:

- HSBC Bank: Safes
- Raiffeisen Bank: Safe deposit boxes
- K&H Bank: Safe deposit boxes
- NHB Növekedési Hitel Bank: Vaultroom, safe deposit boxes
- Magyar Posta: Valuestorages
- Cash Logistics Companies: Armored cars, Vaultrooms
- Savings co-operatives: Value storages, safes
- Express companies: Vehicle cassa

### Corporate developments over the past 5 years:

Our purchase of equipment amounted to 1.2 billion HUF, and we bought the followings:

- Solar system
- MAZAK and UpDownBend RAS machines and peripherals, cranes
- Workshop development
- Building a teaching workshop that can accommodate up to 20 trainees

Other development activities and co-operations:

- Forklift driver training, crane handler training, IKER I,II



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# SZABÓ GEAR MANUFACTURING LTD.

## Profile:

Our organization Szabó Gear Manufacturing Ltd. (Szabó Fogaskerékgyártó Kft.) specializes in gear manufacturing, producing geared parts and machining: spur gears, straight bevel gears, helical gears, worm gears, geared axis, planetary gears, spline shafts, gear boxes. With our 2,500 m<sup>2</sup> production facility, located in Kaposvár, Hungary, highly skilled workforce and total engineering capability we supply our diverse group of clients with a wide range of quality products; from small series very high precision gears for gear pumps, larger gears for larger size gear drives for the renewable energy wind industry to bigger series standardized gears utilized in the agricultural machinery industry. We also supply the automotive industry, mining industry, construction- and paper machinery industry. Through reliable, time tested and flexible processes and quality management system, we are able to plan and maximize our production capacity optimally to meet the demand of our global market.

## Products:

- Spur gears
- Straight bevel gears
- Helical gears
- Worm gears
- Geared axis
- Planetary gears
- Spline shafts
- Gear boxes

## Services:

- Heat treatment (case hardening, carburizing carbonitriding)
- Our heat processing workshop is used for toll manufacturing regarding gas cementation, pad hardening, nitro cementation, metal finishing, normalization and annealing of industrial products. Heat processing procedures are performed in a multifunctional chamber furnace, further elements of the technological line as follow: tempering furnace and parts washing equipment. Heat tempering is performed by adding nitrogen (inert) gas, based on customer requirements the thickness of crust can be changed by technological parameters starting from 0,2 mm.



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

### Know-how and technologies:

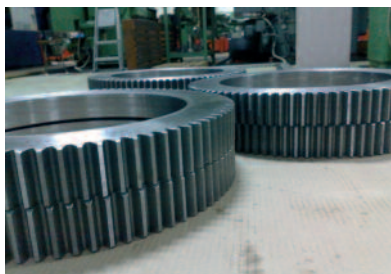
- CNC hobbing, CNC gear grinding
- Gear shaping, broaching
- CNC turning, CNC milling, grinding (surface/internal)
- Contact surface testing, 3D CNC measuring
- Heat treatment, surface treatment

**Year of establishment:** 1996

**Number of employees:** 45

**Quality management system:** ISO 9001/2008

**Annual turnover:** 3,656 M EUR



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# THERMO-PER-COOP LTD.

## Profile:

Thermo-Per-Coop Ltd. has been operating since 1994 and since then it has been engaged in the production of metallic bulk goods. In parallel, it has also added the manufacture and trade of building roofing products to its activities. Previously they also manufactured their own complete duct systems under the name "Thermo". At present, they only manufacture covered duct iron, 80% of which is produced for the foreign market. In 2008, they added a new activity, "Industrial insulation and tin plating". The first step of this profile extension was the setting up of a prefabrication workshop for industrial tinplate. The company undertakes insulation works for industrial, chemical and energy plants, tanks, pipelines, equipment, hot-cold and sound insulation in the Transdanubian region. They provide their customers with a complex service ranging from scaffolding, surface treatment and corrosion protection to hot and cold insulation and soundproofing. This includes isometrically measuring the external cladding of the insulation, prefabrication in the workshop and on-site installation.

The company started out in Perkáta, as reflected in the word 'Per' in their name, 'Thermo' referring to thermal energy and the initial Thermo product range, and 'Coop' to cooperation.

The company is currently based in Budapest (office and site), with the head office and the archive in Dunaújváros, together with the prefabrication workshop, so it functions as both a site and a commercial centre. In addition to Perkáta, the company has also opened a branch in Pécs.

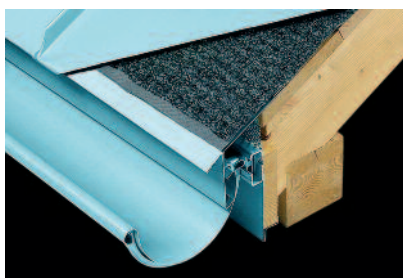
## Products, services:

### Building tinsmith products:

- production of galvanised plain and channel-coloured channel covers in nearly 40 sizes and shapes
- trade: Representation of Rheinzink, VMzinc, LINDAB Prefa, Trifa, KJG and Zambelli gutter systems and supply of associated sheet and strip guttering in addition to the finished products.

### Industrial roofing services:

- industrial thermal insulation (cold, hot and sound insulation technologies)
- Isomatt system - thermal insulation in glass fabric mats
- corrosion protection
- Scaffolding (Layer type with 10.000 lm3 industrial scaffolding)



## THERMO-PER-COOP LTD.

address: Hungary, 1021 Budapest, Tárogató lejtő 8. I. em. 3. (headquarter);  
7634 Pécs, Nagyberki út 11.; 2431 Perkáta, Mária u. Hrsz: 087/5; 2400  
Dunaújváros, Petőfi S. u. 114.  
phone: +36 [72] 213-290; +36 [25] 451-365; +36 [25] 746-880  
e-mail: info@thermopercoop.hu; www.thermopercoop.hu



### Know-how and technologies:

Hydraulic slabbing machine working with tons of rolls of different material types, Roller slab forming lines (drain and channel maker), Sclebach profiling machine, Plasma cutting table, Zikni machines, Primers, Industry 4.0 terminals.

**Year of establishment:** 1994

**Number of employees:** 64

**Quality management system:** MSZ EN ISO 9001:2009

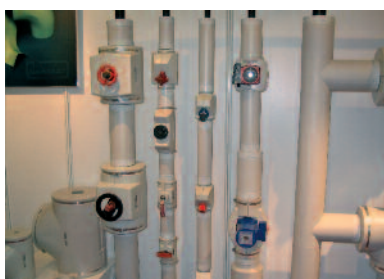
**Annual turnover:** 4,6 M EUR

### Customers, references:

Rheinzink GmbH., Dunaferr Plc., Dunaferr Power Ltd., Hamburger-Hungária Ltd., PÉTÁV Ltd., Kronospan Mofa Ltd., Veolia Energia Magyarország Plc., Pannon Power Ltd.

### Corporate developments:

The company is a successful bidder, and between 2016 and 2017 they implemented complex corporate technology upgrades for almost 68.000 EUR, and made a further 30.000 EUR investment in capacity expansion. In 2018-19, they invested 430.000 EUR to further expand their production capacity by attracting tender funding, and in 2019 they won 54.00 EUR for job creation. Their latest project of 340.000 EUR involved the development and market launch of an industrial thermal insulation mattress with a grant of 200.000 EUR.



# TITAN LTD.

## Profile:

Titan Ltd. is a stable player in the Hungarian construction industry, with decades of experience in the production of metal structures. Its main activity is the design, manufacture and installation of steel structures, as well as maintenance, welding and locksmithing works. The company is committed to the highest quality standards, developed over many years by its skilled staff.

## Services:

- laser cutting (carbon steel from 1 mm to 16 mm, stainless from 1 mm to 8 mm)
- plasma cutting (carbon steel 1mm - 30mm, stainless 1mm - 20mm)
- production and assembly works in new crane halls
- complete execution of investment works
- fabrication and erection of steel structures
- general engineering-maintenance and construction works
- manufacture and installation of special material handling equipment
- installation and refurbishment of special equipment
- complete installation of spreading trays in silos, construction of air ducts, installation of compressors, renovation of spreading trays
- complete installation of pipe mail systems
- installation and commissioning of elevators, erosion ducts
- complete assembly of packaging systems
- installation and complete overhaul of filters
- installation and refurbishment of excavators and scrapers
- installation of demag tracks
- tightening of high torque bolts
- all types of overlay welding



## TITAN LTD.

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

**Year of establishment:** 2004

**Number of employees:** 38

**Quality management system:** ISO 9001:2015; ISO 14001:2015; ISO 45001:2018; EN 1090-2;  
DIN EN ISO 3834-2

**Annual turnover:** 1,52 M EUR

#### Customers, references:

- DDC Kft. Beremendi Gyár,
- Carmeue Hungária Kft. Beremendi Gyár,
- Pécsi Erőmű Rt.,
- Duro Dakovc,
- D-P Konzorcium Kft.,
- Nostra Cement Kft.,
- Redecam Group,
- Polysius AG,
- Tvornica Cement Kakanj - Bosnia and Herzegovina



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# VMAX-TEC LTD.

## Profile:

Since 2003 Vmax-Tec Ltd. has been engaged in the machining of custom and small series machine parts with high precision CNC milling and turning machines. The majority of their orders come from the belgian packaging and automotive industry, and they also regularly supply parts to Austria. They also have close links with domestic companies at regional and national level in Hungary, including in the engineering, rubber and tobacco sectors. The company aims to provide the best quality to the customer's requirements, typically within short deadlines.

## Products, services:

Individual and small to medium series machine parts with CNC machining.

## Know-how and technologies:

Milling machines:

- Mazak Nexus 510c machining centre
- Mazak Vertical Centre Smart 530c machining centre
- Mazak VTC 760c machining centre
- Mazak VCN 430a machining centre
- Cincinnati Milacron SM500 machining centre
- Kunzmann WF 7/3 tool milling machine

Lathes:

- Gildemeister CTX400E Series2
- Gildemeister CTX400E Series2
- Mazak Quick Turn Smart 200M

With the help of their extensive subcontractor relationships, they are available for a wide range of additional activities such as flame cutting, laser cutting, waterjet cutting, sheet cutting, bending, punching, surface and slab grinding, welding (CO, AWI, mixed gas), wire spotting, block spotting, nitriding, pickling, tanning, nickel plating and galvanizing.



VMAX-TEC LTD.

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[www.vmax-tec.hu](http://www.vmax-tec.hu)



**Year of establishment:** 2003

**Number of employees:** 18

**Annual turnover:** 0,74 M EUR

### Corporate developments:

In 2017, Vmax-Tec Ltd. invested 197k EUR in a CNC vertical machining centre by winning the GINOP 1.2.2. tender.

In 2018, they expanded their machine park with a new CNC vertical machining centre and a laser marking machine, as well as a complete modernisation of the property, with an investment of 424k EUR under GINOP 1.2.3.

In 2018, also with the help of a successful GINOP 1.2.8. grant, the installation of oil mist extraction equipment in the plant was started with a total investment of 42k EUR, and in 2020 a VCN430A type CNC vertical machining centre was purchased for almost 120k EUR.



VMAX-TEC LTD.

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# ZIEHL-ABEGG LTD.

## Profile:

ZIEHL-ABEGG Motor- and fan manufacturer Ltd. is one of the largest employers in Somogy County. It is based in Marcali, since 1994. The owner is the German company ZIEHL-ABEGG GmbH & Co., which manufactures air handling equipment, special electric motors, axial and radial fans and related products.

ZIEHL-ABEGG has 4700 employees worldwide, 16 production sites, 29 companies and 112 dealerships. ZIEHL-ABEGG's strategy is based primarily on outstanding quality, a 'king class' approach and customer focus. In the field of air handling, control and drive technology, they think in terms of system solutions and their developments point to the future.

ZIEHL-ABEGG Ltd. mainly produces fan components for its parent company and its sister companies. Thanks to continuous development and the agility of the management, the company employs today nearly 850 people. The company's main activity is the production of fan components, including the winding of electric motor stator parts, the production of fan guards and the casting of aluminium components. Production is carried out in three large units: the Grid Shop for fan guards, the Winding Shop for wound iron cores and complete stator assemblies, and the High Pressure Aluminium Foundry for fan blades and rotors.

## Products, services:

- fan parts
- winding of electric motor stator parts
- fan guard grilles
- casting of aluminium parts



## ZIEHL-ABEGG LTD.

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



### Know-how and technologies:

- first to use external rotor motors
- bionic fan design (owl wing), innovative drive technology, ZAmid® technology

**Year of establishment:** 1994

**Number of employees:** 850

**Quality management system:** MSZ EN ISO 14001:2015; MSZ EN ISO 9001:2015

**Annual turnover:** 54,3 MEUR

### Customers, references:

They manufacture exclusively for industrial applications, their largest customer is our German parent company.

### Corporate developments:

The main driver of planned investments is the field of robotics and automation, which has made it possible to acquire, for example, a new automatic production machining centre in 2022 and new robotised welding cells. In addition, the company plans to purchase new winding stator impregnation equipment by 2025.



# CONTACTS OF SOUTHWEST HUNGARIAN ENGINEERING CLUSTER

## The management organisation of Southwest Hungarian Engineering Cluster:

### **Chamber of Commerce and Industry of Pécs-Baranya**

Address: H-7625 Pécs, Majorossy I. u. 36.

### **Pécs-Baranyai Gazdaságfejlesztő és Szolgáltató Nonprofit Ltd.**

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## Chamber of Commerce and Industry of Pécs-Baranya

Szabolcs Rabb

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Web: <https://pbkik.hu/>

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Chamber of Commerce and Industry of Pécs-Baranya  
AGS Engineering Office Ltd.  
AGS Tool Service Ltd.  
Aquacut Ltd.  
Asinox Ltd.  
Büttner és Társai Szerszámelemgyártó és Kereskedelmi Ltd.  
Cabtec Ltd.  
CADSOL Ltd.  
Dovi-Plast Ltd.  
Ferrokov Ltd.  
Forsz Szerszámgyártó és Élező Ltd.  
Fórum-Plussz Ltd.  
Gépszer Ltd.  
GLT Delta Épületgépész Ltd.  
Hidrofilt Ltd.  
Hidrot Ltd.  
Kaposbrezon Ltd.  
Kaposvári Villamossági Gyár Ltd.  
Két Salamon Lp.  
Kiss Épületgépész Ltd.  
Klímatrióplussz Ltd.  
Knipl Ltd.  
Kontakt-Elektro Ltd.  
Kontakt-Engineering Ltd.  
Körber Hungaria Gépgyártó Ltd.  
Kresz & Fiedler Ltd.  
Lakics Gépgyártó Ltd.  
Loschán Ltd.  
Matro Ltd.  
Max Blank Hungária Ltd.  
Metal-Work 2003 Ltd.  
MIG-TIG Ipari Szolgáltató, Kereskedelmi és Tanácsadó Ltd.  
Minorits Ltd.  
University of Pécs Faculty of Engineering and Information Technology  
Sampo Élelmiszeripari Gépgyártó Ltd.  
Schneider Fémipari Ltd.  
Seres Gépipari és Kereskedelmi Ltd.  
Solar FM Ltd.  
Somapak Ltd.  
Som-Szer Ltd.  
Spinner Hungária Ltd.  
Spitzer Silo Pécs Ltd.  
Stang Bádógos Ltd.  
Strauss Metal Ltd.  
Szabó Fogaskerékgyártó Ltd.  
Thermo-Per-Coop Ltd.  
Titan Ltd.  
Vmax-Tec Ltd.  
Ziehl-Abegg Ltd.



*Southwest Hungarian*  
**ENGINEERING CLUSTER**