

YOUR PARTNER  
FOR CASTING  
AND MACHINING







## COMPANY PROFILE



MEDEKO is a family-based company manufacturing non-ferrous metal alloys, solders, semi-finished products and finished castings. In our production we utilise not only primary metals, but also metal waste. Our products are destined for further processing to become a part of a final product.

We are here for our customers. We exert our best efforts to accommodate our customers' needs and fulfil their expectations and requirements. We always deliver quality. Our products have a direct effect on our customers' success and performance.

To secure strong partner relationships both today and in the future, we will continue our way of improving our production processes and enhancing quality of our products in order to facilitate our customers' success in selling their final products.

Ing. Pavol Demáček



## OUR QUALITIES

We will further develop the MEDEKO brand particularly by way of:



We concentrate on delivering perfect quality without any compromises.

We are flexible, fully aligning to your demands regarding quantity as well as technical requirements and delivery terms.

We are very prompt and able to customise our manufacturing process to accommodate even the shortest delivery time requests.

Our products are exported to many countries:





## INVESTMENT CASTINGS

The main focus of our investment casting production is on shape difficult parts from steel and bronzes, which we can cast with high accuracy and excellent surface finish.

Top quality and precision is achieved by employing a state-of-the-art technology, first grade input materials and years-long experience of our investment casting foundry team.

We supply castings to customers all around the world. We are a reliable business partner for small-size businesses as well as large transnational corporations. Our ever-present aim is satisfaction of customer expectations, which is well proven by our long-lasting partnerships.

We are here for you and your success is our success too. Our team of engineers is at your disposal to assist you in designing your final products. We can supply you with ready-to-assembly castings including heat treatment, machining and surface treatment. We can assure you that you will appreciate our promptness, quality and flexibility.

**Materials:** low- and medium-alloy steels, stainless steel, tin and aluminum bronzes

**Dimensions and weights:** 0.01kg - 10kg

**Tolerances:** classes D1, D2, D3 according to VDG P690; class 1 according to STN EN ISO 8062-3 : 2007

**Industrial applications:** food processing and packaging industry, general engineering, energetics, health care, military and defense, transport and railway industry etc.





## PERMANENT MOULD CASTINGS

The permanent mould casting production, of which we are rightly proud, is undertaken by our affiliate,

M-Cast It is a joint venture between us and our German partner, MKB Metallguss GmbH.

Our partner's experience and know-how, built up over years of experience in casting, make us capable of supplying top quality castings.

Our long-lasting successful cooperation with our partners is founded on their trust, and we always make efforts to foster it from the very beginning of a partnership. Realising that the quality of our products directly affects the quality and functionality of the whole assembly into which they are incorporated, we always do our best to fulfill our customers' expectations and requirements.

We know what you need and we are committed to delivering it. We will supply to you cast parts that strictly comply with your documentation, machined or hot-treated, as you may require. For us, flexibility and promptness are the fundamental prerequisites for success.

**Materials:** Cu-Al, Cu-Zn, Cu-Sn-Zn-Pb, Al-Si based alloys.

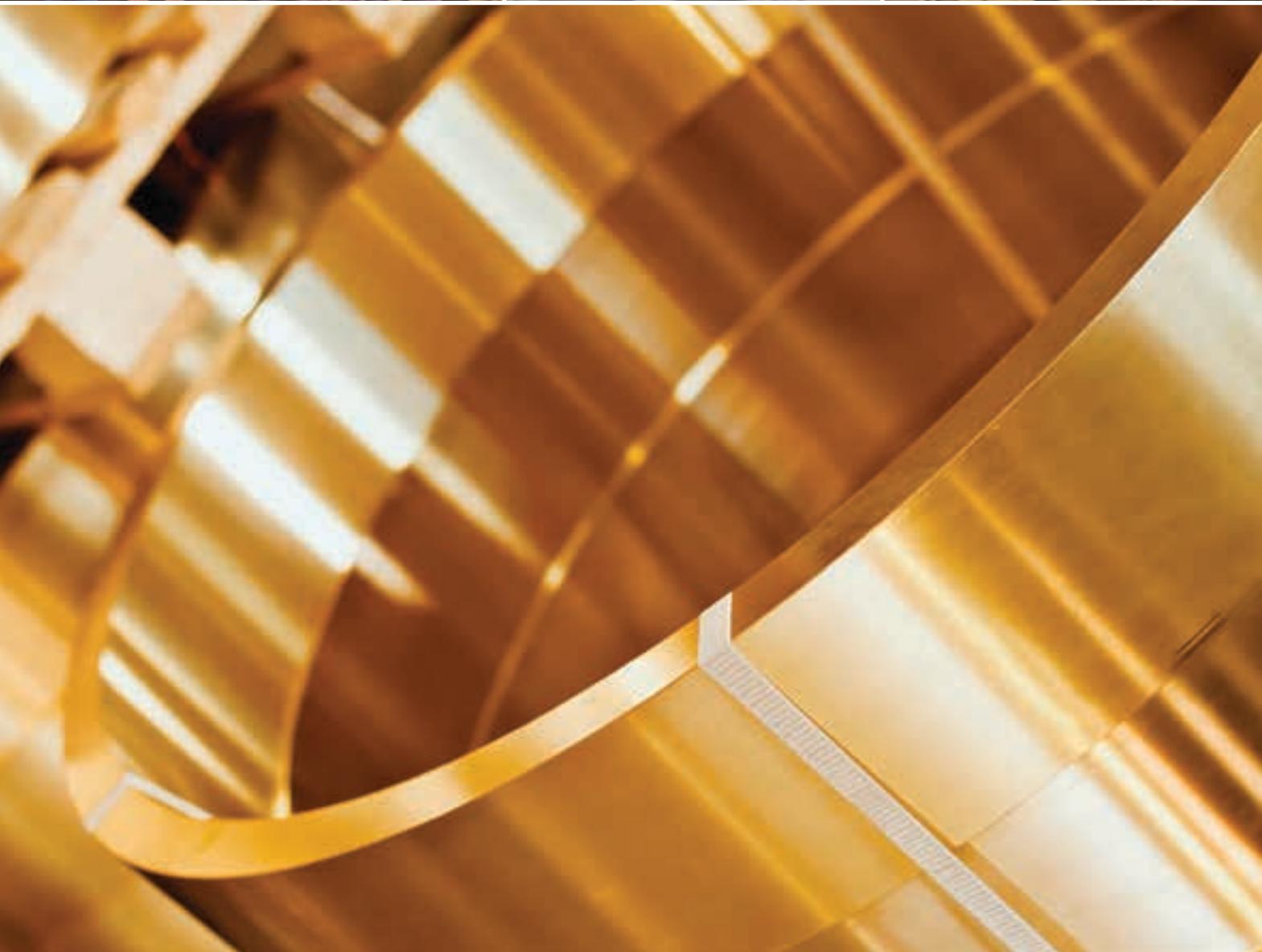
**Casting weight range:** 5g - 7kg.

**Dimensions:** up to 200mm x 300mm. Other dimensions are subject to consultation.

**Tolerances:** DIN 1687 and 1688, GTA 14.

**Industrial applications:** mechanical engineering, electrical engineering, telecommunications, energy, automotive, railway transport, etc.





## CENTRIFUGAL CASTINGS

The centrifugal casting production is our most dynamic and fastest-growing technology. Since 2002, we have extended our range of centrifugal casting dimensions from 80mm to 2500mm in diameter. Bushings and shells are finished with a tin and lead composition lining. The high quality of our centrifugal castings is guaranteed by the proven technology we employ and long-time experience of our centrifugal casting foundry team. Our great benefit is in that we make centrifugal castings from our own copper alloys with guaranteed quality.

We supply castings for both new machines and refurbishing applications. The key factor of the successful production is the right mixture of serial and piece production.

We supply castings either rough-machined or finish-machined, including the mechanical processing and heat treatment.

We will be pleased to advise you what alloy is the best match for your application. We will flexibly provide the permanent moulds and supply castings in a short time, no matter whether you order one piece or one hundred pieces.

**Materials:** copper based alloys (Cu-Al, Cu-Zn, Cu-Sn, Cu-Sn-Pb), sliding compositions and aluminium alloys.

**Dimensions and weights:** 40mm - 2500mm / 0.1kg - 2000kg.

**Industrial applications:** mechanical engineering, automotive industry, railway and ship transport, machine repairs, energy sector, etc.





## MACHINING

We continuously enhance our customer services. That's why we decide to implement CNC machining technology to our service product range. We thus follow up the rich tradition of the mechanical engineering industry in our region. The success of such production is based on a quality technology and skilled staff. Our machining operations rely on cutting-edge MAZAK machines. As a matter of course, we provide machining services to our customers on very favorable pricing terms. This is allowed by a high productivity rate of our manufacturing operations and lean administrative process.

We know your needs and that's what guides our work. For us, flexibility and promptness are the fundamental prerequisites for success.

Your parts may be supplied inclusive of the hot treatment and surface finishing. Range of materials machined: steel, stainless steel, alloy, aluminium, brass, bronze, copper, duralumin, titanium, and more.

**Part weight range:** up to 2,200kg.

**Part dimension range:** up to 2,000mm.

Other dimensions are subject to consultation.

**Tolerances:** IT7; the precision is subject to verification using Carl - Zeiss 3D measuring equipment

**Industrial applications:** machine building, general mechanical engineering.





## TIN SOLDER PRODUCTS

Tin solder products belong to the range of production input materials we supply. Tin solders for electrical engineering applications are made exclusively from highly pure primary raw materials. Our range of solder products is complemented by solders for plumbing applications in the building industry and extruded wire solder products for the automotive industry. Our state-of-the-art production technology ensures purity of the alloy and a low content of oxygen impurities.

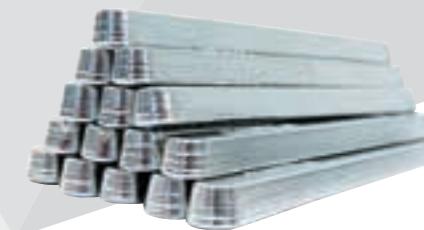
We supply our high quality tin solder products to a number of renowned electrical engineering companies. We also provide advisory services to our customers, helping them to find the most effective soldering methods. We recycle your contaminated solder baths and we also purchase process residues and tin oxides on advantageous terms. We know exactly what you need and that's what guides our work. For us, flexibility and promptness are the fundamental prerequisites for success.

**Materials:** primary raw materials and all types of soft solder.

**Dimensions and weights:** 0.3kg triangular bars, 1kg rods, 3.5kg rods with a lifting lug, extruded solder products of various dimensions, granulated and block solder products.

**Standards:** EN, DIN, STN and CSN, or according to customer specification.

**Industrial applications:** electrical engineering, plumbing, food-processing and automotive sectors, jewel and art making.





## LEAD AND LEAD ALLOYS

The lead production is one of the core lines of our business. We make special alloys of lead and various products such as extruded wires, profiles for stained glass works, centrifugal and gravity castings. Our manufacturing process complies with stringent safety regulations and standards, with a view to preventing an adverse environmental impact. This also facilitates the recycling of dangerous wastes. We are focused on high quality products, to the satisfaction of arms companies as well as stained glass art makers. Our castings meet exacting requirements, and as such they also find application in medical devices.

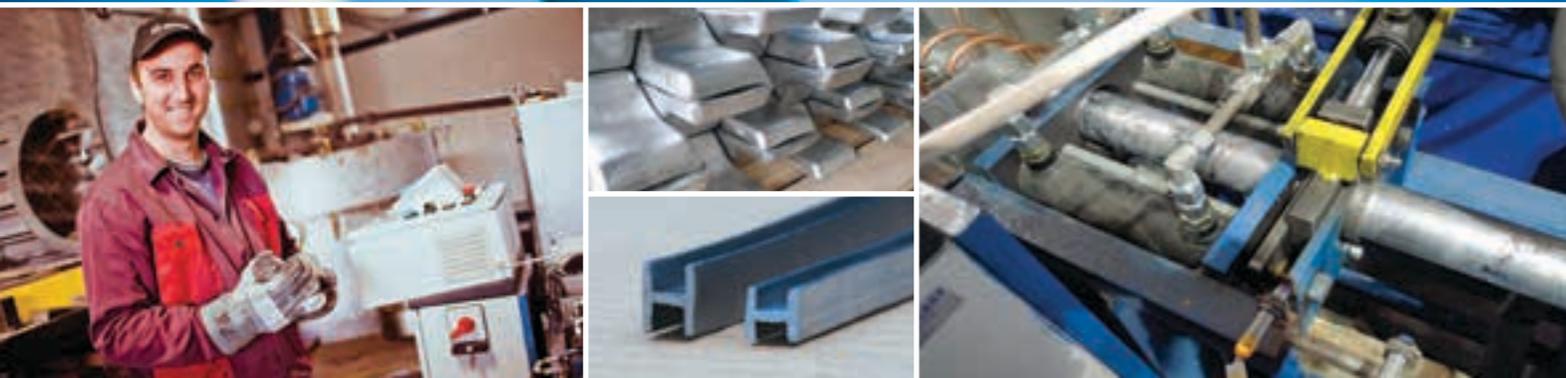
We serve a wide range of customers. We supply our lead semi-finished products and castings to both small workshops as well as large manufacturing plants. Every order is equally important to us.

**Materials:** Pb-99.9 and lead-based alloys: Pb-Sb, Pb-Sn-Sb.

**Dimensions and weights:** 550x120x120mm blocks; wires with diameters ranging from 4mm to 10mm; castings made to customer drawings.

**Standards:** EN, DIN, STN and CSN, or according to customer specification.

**Industrial applications:** chemical, nuclear, health, art-making and arms sectors.





## COPPER ALLOYS

The oldest production part of our company. We rank among the largest Central-European non-ferrous metal waste processing operators. Our customers can be assured of a top quality of our alloys. Conformity of the chemical composition of an alloy and compliance with customer requirements/ designated standards are subject to multiple controls using a spark spectrometer. Deoxidised and degassed alloys are our normal standard.

We serve a wide range of customers. We supply our alloys to both small workshops as well as large foundries. We know exactly what you need and that's what guides our work. For us, flexibility and promptness are the fundamental prerequisites for success.

**Materials:** copper-based alloys: Cu-Al, Cu-Zn, Cu-Sn, Cu-Sn-Pb, Cu-Si.

**Dimensions and weights:** 1 block unit: 90 x 60 x 250mm, 9 - 10kg.

**Standards:** EN, DIN, STN and CSN, or according to customer specification.

**Industrial applications:** metallurgical companies, art foundries and bell-making workshops.





## NON-FERROUS METAL SEMI-FINISHED PRODUCTS

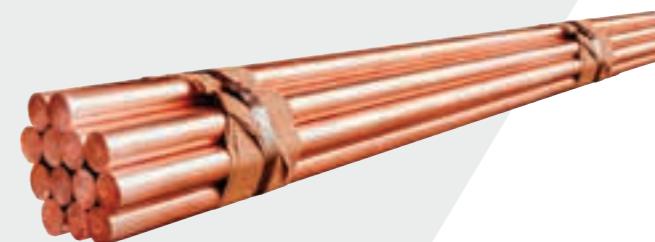
Our sales team responsible for non-ferrous semi-finished products engages primarily in selling brass and copper semi-finished products; however, thanks to our cooperation with renowned European manufacturers we are able to supply any materials as a customer may need. Our semi-finished products are typically supplied in form of bars, tubes, sheets, strips and wires.

No matter whether you need 5kg or 5 ton. We will always do our best to make you satisfied.

**Materials:** A broad variety of semi-finished products from non-ferrous metals. Our specialisation is brass semi-finished products made of CuZn39Pb3, CuZn40Pb2 and CuZn37 alloys, and copper and bronze semi-finished products.

**Shapes:** bars, tubes, sheets, strips, wires.

**Standards:** EN, DIN, or according to customer specification.

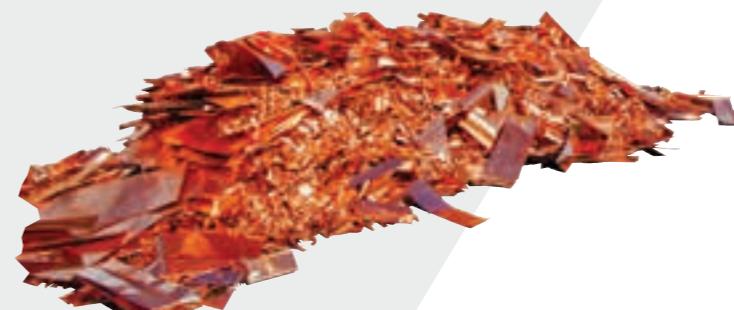




## METAL SCRAP PURCHASING

We are one of leading Slovak companies engaging in the metal scrap purchasing and processing. As a processing company we have the best competence to assess any metal waste supplied. Our suppliers can be assured of a fair approach and prompt payment on our part. Free advice and material analyses in our laboratories are a matter of course in our dealings with customers.

We invest in modern, ecological and energy-saving technologies. This allows us process wastes in a way that is both effective and environmentally friendly. Scrap that we are not able to process directly are forwarded to metallurgical plants for reworking.





## ART CASTINGS

The art casting is a matter of passion as well as prestige to us. The tradition of our art casting production lasts over 15 years. In this time our team has acquired rich experiences and build up reputation among the community of domestic artists. We are proud to work with some of the most famous Slovak sculptors.

Our mission is to capture the real beauty of the art and preserve the idea which the artist has given to his masterpiece. Every single detail matters. We work with high precision and respect to the artist's creation, taking care to preserve the spirit of the work in the final casting.

**Materials:** Bronze and stainless steel.

**Dimensions and weights:** from small gift articles, through large statues, to sculptural groups and compositions.

### I. W. Král' Statue

The biggest sculpture we have ever made is one representing Slovak painter Imro Weiner Král'. The artwork can be found in Považská Bystrica, the square in front of the town hall.

I. W. Král', a native of Považská Bystrica was a world-wide recognised painter. The unveiling ceremony was attended even by his daughter Elise Champon who arrived from Paris where she lives and where the painter had also lived and worked for many years. The project was implemented by a civil association, the Society of I.W.Král's Friends. In addition to casting the statue, our company also supported the project with a financial contribution.





## QUALITY AND AWARDS

### QUALITY

Quality control is a fundamental element of our business. Our proactive quality control starts from the receipt of materials and is maintained across the entire manufacturing process, up to the product or service delivery to our customer. We are assured that the quality we deliver is stable. Our quality control relies on an integrated quality management system complying with ISO 9001:2008. We are also holders of P.E.D., ISO 14001:2004 and 18001:2007 certificates.



### AWARDS

Thanks to the efforts of our employees and company management, we won the third place in the prestigious Best Employer Slovakia award competition, the category of small- and medium-sized businesses.

We also succeeded in a HR Leading Organisation survey undertaken by PriceWaterhouseCoopers across the mechanical engineering industry.

We highly value those awards. They are a proof that our employees feel good working with us and being part of MEDEKO team.





## OUR OTHER ACTIVITIES

Every year MEDEKO and its employees support socially useful organisations and various activities in our region.

We organise a fundraising raffle at our annual MEDEKO ball to support the town's hospital. Funds so collected are donated to the hospital to purchase equipment that helps to improve healthcare of patients. The most recent contribution was used for purchase of a vital functions monitoring device for the surgery department.

Another project, one that is particularly favoured by our employees, is the Gift-for-a-Child Christmas Tree. An employee can pick from the tree an ornament showing the name and age of a child. They buy a Christmas present and attach the ornament to it so that the gift reaches the hands of the right child. The gift-giving is targeted at economically vulnerable families in the town.

MEDEKO has been a financial sponsor of various talent-developing efforts for several years. The Young Talent project gives an opportunity to young talented people to show their aptitudes. The project is targeted at secondary school and art school students aged between 15 and 19 who are invited to take part in competitions in the fields of humanities, natural sciences, arts and sports.





## CONTACT

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