

FOUNDRY REVIEW

5-6'2022

- SUMMARIES -



FOUNDRY ZAWIERCIE SA CELEBRATES 135 YEARS OF TRADITION AND EXPERIENCE!

The history of today's Zawiercie Foundry began in 1886, when Ernest Erbe established a small forge producing agricultural tools for the local population of village of Łośnia. Due to favorable market conditions, six years later a foundry producing white malleable cast iron was launched, and in 1901 the production of fittings started.

Soon the plant became a monopolist in the field of manufactured products throughout the Kingdom of Poland. It was also then that it changed its name from "Forge Ernest Erbe" to "Fabryka Łączników i Wyrobów Lano-Kutyh Ernest Erbe" ("Ernest Erbe Factory of Cast-Forged Connectors and Products") in Zawiercie, and the trademark "EE" became a distinguishing feature of the company's recognized quality and tradition.

Today's Foundry, with 135 years of tradition and experience in the production of white malleable iron fittings and castings, is a systematically expanded and modernized plant equipped with a modern machine park.

Advanced technological and ecological processes as well as highly qualified engineering and technical staff ensure world recognition for the quality of products that meet the requirements of Polish and international standards.

The main branch of production of today's Odlewnia Zawiercie S.A. are connectors for water, central heating, gas, fire, sprinklers and industrial installations as well as details for the industrial fittings, railways, energy, armaments, mining, transport, automotive and agriculture sectors.

RYSZARD KIELCZYK

PRODUCTION UNDER CONTROL. APPLICATION OF THE ERP SYSTEM AT ODLEWNIA ŻELIWA DRAWSKI SA.

INTERVIEW WITH THE PRESIDENT OF THE FOUNDRY

In the era of Industry 4.0, it is important to use tools that integrate individual departments of the company, including production departments with external entities, such as customers and contractors, participating in the production, sales and logistics processes. This is achieved by properly configured ERP systems and B2B platforms. The foundry industry is specific due to the need to correctly identify and register production processes and obtain information about the efficiency of individual resources that affect their implementation. In an interview with the President of Odlewnia Drawski SA, the possibilities of using the ERP system - Streamsoft Prestige - to manage individual departments and the method of preparing the foundry for the implementation of this tool were presented. The benefits of introducing the system were indicated, including the most important - automation of the casting process along with passing the information to the contractor, production management in the foundry, as well as preparation of analyzes and reports of process effectiveness.

THE ALUMINUM INDUSTRIAL SYSTEM IN EUROPE AND IN ITALY. CHARACTERISTICS, LEVEL OF COMPETITIVENESS, FUTURE PROSPECTS AND COMMERCIAL POLICY PROPOSALS

The aluminium industry is essential to the economies of advanced countries and provides a range of highly differentiated products, from intermediate semi-finished products, required for many high-tech industries, to foundry castings, parts and components for end applications. The structure of this industry in Europe has changed significantly in recent years, and since 2008 the European Commission has shown a growing attention to the aluminium value chain (and also other non-ferrous metals, such as copper and zinc), triggering interest in an industrial policy to re-launch the sector.

The light metal supply chain has also been projected in the last year even more at the center of the political debate relating to recovery after the dramatic effects of Covid 19, in particular due to the extraordinary technical characteristics of the light metal, which lends itself to a great number of industrial applications, and which more than other materials have a strong natural aptitude for recovery and recycling, thus responding to the requirements of eco-sustainability and a circular economy tool envisaged in the Commission's ambitious recovery projects. The paper gives a current perspective of the aluminium industry within the reference framework of the European value chain and with a particular emphasis on the Italian system, also suggesting some indications and recommendations to promote and strengthen the competitiveness of the aluminium industry in the EU, also in light of concomitant global trends, with a particular focus on the issues of access to raw materials.

EUROCAST INDUSTRIES REPRESENTS THE ENTIRE SINTO GROUP ON THE POLISH MARKET

On the Polish market, Eurocast Industries represents many prominent manufacturers of machines for the foundry industry, both in the process of creating bentonite and chemically hardened moulding sands. HWS Sinto and Omega Sinto, which have been leaders in the terms of quality both in the world markets and in Poland for many years, are in the forefront. Laempe Mosner Sinto joined the group of top producers represented by Eurocast. This well-known brand allows Polish foundries to offer a reliable product with high technical specifications and optimal performance. The success and reliability are confirmed by numerous machines that have been working for years for the largest car concerns such as BMW, Volkswagen, Mercedes and many others. Laempe technology allows the production of cores for castings used in virtually all industrial sectors. It gives absolute certainty to obtain even the most demanding shapes, minimum wall thickness with optimized consumption of products. Laempe Mössner Sinto offers a comprehensive range of solutions, including core shooters, gas injection equipment, core mix systems and core finishing solutions, automatic visual inspection systems and digitization.

AUTOMATIC KOYAMA GRINDING CENTER IS THE KEY TO MAJORLY IMPROVING PRODUCTIVITY AND SAVING YOUR MONEY

Eurocast Industries has adopted a policy of representing the world's best manufacturers of machinery and equipment as well as solutions that really work in foundries, including PS Auto Grinding. PSAG & PSFT is the main supplier of automatic grinding systems in Europe, offering machines for ferrous and non-ferrous foundries, as well as providing service, training and spare parts. PSAG has designed its own loading robot and additional solutions in the machine that allow the application to be individually adapted to the customer's needs in a fully controlled manner. The stunning success of Koyama, supported by the recommendations of other users with very good performance and reliability already installed, as well as the proper evaluation of Victaulic foundry employees, led to the choice of reliable technology, easy to program and efficient Koyama machines. Victaulic builds innovative technologies and provides engineering services that address the complex piping challenges faced by engineers, contractors, distributors, facility owners and property managers. Currently, the Victaulic foundry is equipped with 6 400Si machines and it has been observed that Koyama can be up to 16 times faster than manual grinding.

HIRADO - A REVOLUTIONARY INNOVATIVE TECHNOLOGY ALREADY IN POLAND!

Hirado, a Japanese manufacturer of innovative hydraulic die casting equipment, presents for the first time a description and summary of two separate tests of its equipment, which showed a great improvement and a drastic increase in savings of up to 80%. Tests carried out in Europe clearly prove that both the HYDRAULIC WEDGE and JAW BREAKER devices by Hirado significantly reduce costs and working time, while increasing safety and improving the operator's comfort. In 2020, Hirado and its Polish partner, Eurocast Industries, started a series of tests in Poland for customers interested in modern solutions. The Zetkama Foundry has been a user of the jaw breaker machine for over 10 years and is very pleased with the efficiency and reliability of the device. The well-known and dynamically developing foundry Drawski expressed its willingness to test and verify innovative solutions of high-quality Hirado equipment. Although Hirado's main goal is to deliver innovative equipment to European markets, the company believes that service and prompt support are equally important to achieve good cooperation and mutual satisfaction. Therefore, the partnership between Hirado and Eurocast Industries is extremely important, because it focuses on experience in this field, the ability to provide reliable service and the knowledge of experts who really care about providing the best solution for customers in Poland.

ATTRACTING AND RETAINING TOP TALENTS IN THE FOUNDRY INDUSTRY. PERSPECTIVES ON THE INDUSTRIAL SITUATION AND CHALLENGES FOR METALCASTING

Part of the future of the foundry sector relies on its ability to encourage new professionals to join it, along with its capacity to enhance the technical and leadership skills of young people within its companies and organizations. In addition, a special focus can be set on women, who still represent a low percentage of the total labor force, even lower than the figures found in manufacturing industry as a whole. In a context where the pandemic crisis is accelerating some of the challenges for this sector, a true global cooperation to promote its image as an advanced and technological industry, seems to be key for these actions. Talking with some top global female leaders allow us to shape the way our industry is being challenged and highlight some of the solutions that the international industry is developing to face the actual complexity of these challenges.

METALSHUB - A LEADING PLATFORM FOR TRADING METALS CLOSES THE A SERIES

Metalshub, the metal industry's first digital trading and pricing platform, raised \$ 11 million in Series A, led by international growth VC Acton Capital with existing investors Point Nine, Chromo Invest and several business angels. Leveraging fresh capital and strong momentum after a record year, Metalshub will expand beyond Europe and aim to reach \$ 1 billion GMV by the end of 2021.

WE ENSURE CONTINUOUS OPERATION OF CHEMICAL POWER SOURCES

Zakłady Elektrochemiczne ALCO-MOT sp.z o.o. are a Polish company specializing in the production of foundry molds, lead products, copper and brass processing, and black metal processing. At present, the company has its own factory of crucibles and molds, which gives additional possibilities in the field of production for individual customer needs. Recently, the company has focused on computerization. This allows, among others to control and optimize costs, keep an eye on the profitability of production and monitor the timeliness of orders. The company employs specialists in the field of foundry mold construction, who make complex production tools based on the drawing of the product supplied by the customer. In addition, the company employs permanent staff in the foundry area. They are experienced founders who make sure that the products delivered to the contractor comply with the requirements. The company produces and modernizes casting tools such as molds and crucibles as well as small hand tools needed for everyday use.

SAND TEAM SPOL. S.R.O. – 24 YEARS OF INNOVATION AND BUILDING A MUTUAL PARTNERSHIP

In 2021, 24 years have passed since the founding of the SAND TEAM spol. S.r.o. company.

The main goal of the company is to provide comprehensive services and technical support in the field of foundry core and mould production. The company constantly strives to build mutual trust and long-term relationships with customers, helping them to be successful. To implement this vision, the company's activities are based on competences, knowledge of foundry technology, innovations and modern materials. Cooperation with reliable suppliers is very important among these efforts.