

FOUNDRY REVIEW

3-4'2022

- SUMMARIES -



SHORTER CYCLE TIME, BETTER QUALITY OF PARTS AND LONGER MOLD LIFE – FRECH TOOLS POLAND PRESENTS FLM® – A COMBINATION OF CONFORMAL COOLING AND MICROSPRAYING AT THE PRICE OF A STANDARD TOOL

Continued market pressure on the die casting industry targeted at: increased productivity, increase the life of pressure die components, optimization of manufacturing costs of castings, improvement in quality, increasing the field of application for die castings, reduce the negative impact of foundries on the environment.

It builds strong pressure to look for innovative solutions in this field. One of them is the widespread use of conformal cooling which opens up the field of application of minimal spraying. The most perfect technique to make the forming elements of a die in such a way that they fit into the concept of conformal cooling is 3D printing, including the FLM® technology offered by Frech Tools Poland. Frech Tools Poland together with the National Center for Research and Development runs a program that gives the opportunity to try this technology without additional costs compared to standard technologies.

ALUMINIUM CASTING IN THE FACE OF POSTPANDEMIC REALITY AND THE MILITARY CONFLICT IN UKRAINE INTERVIEW WITH THE PRESIDENT OF THE BOARD OF DIRECTORS OF THE SILUM L.L. COMPANY – WIESŁAW WALCZAK AND WITH THE PRESIDENT OF THE BOARD OF DIRECTORS OF P.I.W. WIFAMA-PREXER L.L. COMPANY – PIOTR NYCZ

The Covid-19 pandemic lasting since March 2020 had the influence on all economic sectors, and the crisis related to it affected also metallurgical industry, including the foundry practice. The foundry practice felt very negative effects of this situation, it means: braking of the supply chain and production interruptions being a result of the lack of raw materials or shifting of orders. Unexpected situation required undertaking several remedial operations and crisis management to minimize negative pandemic effects. The pandemic crisis affected specially the aluminum industry and – in consequence – automotive sector. Year 2022 brought another crisis the one caused by the military conflict in Ukraine. Sanctions directed against Russia have global effects - high inflation and unstable financial markets. Europe has sudden increases of prices of energy and raw materials as well as disturbances of supply chains, which is also felt in the metal casting industry.

ALUMINIUM AND NON-FERROUS METALS IN 2021. HISTORICAL PRICE RECORDS, MARKET

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MASSIMO GRIFONE

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MAREK SKOWRON

FROM THE HISTORY OF EVANS BROTHERS CASTING HOUSE IN WARSAW (PART 2)

Unfavorable turbulences of history in the Polish lands at the turn of XVIII and XIX century did not favor the industry development. It was only when the Polish Kingdom was created, that this situation started to change. This was favored by calling foreign craftsmen of various technical skills and providing them with numerous facilitates in settling and opening workshops. As time goes by, some of these workshops were developing into dynamically operating industrial plants.

The article, consisting of three parts, presents the history of one of such workshops – Evans Brothers Casting House. This, first in the Polish lands, commercial casting house was later transformed into the factory of machines, and still later into one of the largest enterprises of the machine industry – Mechanical Factory „Lilpop, Rau and Loewenstein”.

The initial period of its activity, already as the factory of machines is described in the presented second part. The realization of the first serious government as well as private orders, is discussed. These orders caused magnification of the factory by including the ironworks in Drzewica.

WITOLD DOBOSZ

GENERAL MEETING OF MEMBERS OF THE FOUNDRY CHAMBER OF ECONOMY

THE EXCITEMENT OF THE DIE CASTING INDUSTRY IS IMMENSE

In June 2022, the time has finally come: from 8–10, the Exhibition Centre Nuremberg will open its doors for EUROGUSS, which was actually already scheduled for January. This means that this year's International Trade Fair for Die Casting Technology, Processes and Products will be held together with the Die Casting Congress exceptionally this year in summer. The diverse supporting program reflects the most important trends and topics in the die-casting industry. The fair is the leading platform for exchanging ideas with like-minded people about technologies, processes and material developments as well as new areas of application. The industry is looking forward to a safe, face-to-face exchange, as EUROGUSS 2020 was one of the last opportunities for a face-to-face exchange before the pandemic.