

SALICO wins new automotive orders

The last quarter of 2016 was very successful for Salico, with the booking of two new important orders from PROFILGLASS in Italy. In their large expansion strategy towards the automotive industry, PROFILGLASS has placed two new orders for high tech cutting lines with Salico, the first being a high performing slitting line for strip width of 2,500 mm and maximum thickness of 5 mm. The line features the Salico tension carriage, very well known to Profilglass since they already have six such Salico units in operation at their aluminium Rolling Plant. This unit ensures a perfect and even tensioning of the slits with the absolute guarantee of no scratches or surface damage to the processed materials, even for the most sensitive alloys and any temper condition.

To ensure a high productivity of the line, special attention has been taken to reduce the numerous downtimes that the standard slitting lines have for tools management and preparation. For this reason the line also includes a heavy duty slitter head with automatic change of tools and a Salico robotic system for automatic tools cleaning and tools preparation on the loading turnstile. The system will allow

the tools cleaning and preparation jobs on top of the off line turnstile without any operator intervention and in a fully automatic way while the slitting line is in production. The sophisticated tools handling system is completed with three robotised systems for the automatic adjustment of the separator discs on the tension carriage and on the recoiler, and in this way all tools handling operations on the line are achieved automatically without operator intervention apart from informing through the HMI system about the new coils to be slit. Finally the line will be prepared for automatic strapping of the exit slits on top of the exit turnstile, another long lasting operation in a standard slitting line.

The Profilglass order also includes a very large cut to length line for strip of 2,500 mm width and 8 mm thick that includes as its main units a side trimming section, a double cassette leveler with automatic change, an eccentric rotary shear (sixth of its kind in operation at Profilglass), automatic paper and plastic application devices, inspection systems and a massive vacuum stacker working under the 'zero inertia' principle, that ensures the gentle transportation

and stacking of the cut sheets into perfectly squared packages with the absolute guarantee of zero marks or scratches on the surfaces of the material. Lines are scheduled to start production at the beginning of 2018.

SALICO also announces a new order from GONVARRI Aluminium for the modernisation of one existing slitting line located in the plant that this huge producer of automotive components and parts, has in the city of Thüringen in Germany. In their strategy to move towards the aluminium field Gonvarri has placed their trust on Salico for the modernisation of this line to enable it to cut exposed automotive alloys, being the main part of the modernisation the replacement of the existing tension device by the Salico tension carriage with modular blocks of tension rolls for processing of exposed "Z" steels and separate modules for aluminium processing. Many changes in the line lay out with the addition of a number of new units and a complete new automation package will enable the line, originally conceived for steel, to handle automotive quality aluminium alloys.

www.salico.net

Eirich continues in anode paste excellence



The new Eirich RV28 / RV33 generation of high performance carbon paste mixers.

Hardheim, Germany-based Maschinenfabrik Gustav Eirich GmbH (EIRICH) offers the latest technology for the preparation of prebake and Soederberg anode paste as part of its industrial materials processing solutions portfolio. In 2017, EIRICH is installing two RV33 60 tph EIRICH Mixing Cascades (EMC®) for Xinfu (Shandong Xinfu Aluminium Group) in China, demonstrating its ability to process large throughputs. Elsewhere, an RV28 42 tph EMC® has been installed at Kitimat Smelter in Canada for one year now. In the Middle East, EIRICH has successfully supplied SOHAR in Oman with a 35 tph system.

To date EIRICH has delivered more than 230 machines to the carbon industry worldwide, with presently more than 50 percent of prebake anode paste being prepared in plants having at least one EIRICH mixer. The highly experienced and respected Berthold Hohl, who has overseen many of the successful installations of the past 25 years and more, has just retired (as a Carbon Equipment Specialist), and his EIRICH understudy of the past two years or so, Stefan Vucic, has become Business Unit Manager, Carbon Technology as of 1 January 2017.

www.eirich.de

New water quench from Smith-Ferram

Smith-Ferram presented a new type of water quench at ALUMINIUM 2016. This type is suitable for the C36+ cooling process. It is a new type of cooling equipment for extruded profiles, using air, spray or water wave cooling. The system is based on the size of the extrusion press and can be equipped with optional accessories as per customer requirements. This whole equipment and the optional accessories are made of stainless steel. Durability is thus considerably increased.

The WQ box structure itself consists of two parts:

- The **Bottom part (table)** equipped with a nozzle. This could be used separately to cool the profiles from the bottom. The table is equipped with a roller conveyor, which is height adjustable. It can be delivered with driven rollers as an option. The speed of the rollers is synchronised with the press speed and runout table
- The **upper part (hood)** can be hung on an additional structure, while lifted with a strip



Pictured at Aluminium 16 exhibition are from left Ondrej Tuma, Managing Director of FERRAM STROJIRNA, s.r.o., with Josef Flugler, Marketing Manager, and right is David Vecerka, Project Manager.

motor, or tiltable to the side. It depends which type of puller is used. The hood is equipped with top and side nozzles. The side nozzles are divided and independently adjustable. The upper and bottom nozzles are divided into four sections, which allows independent adjustment of each of them individually. The side nozzle arrangement is divided into two sections. Each section is adjustable independently.

The medium flow to the WQ box was calculated by leading researchers at the VSB - Technical University of Ostrava, and subsequently simulated by their supercomputers. Smith has finalised a long-term cooperation agreement with the VSB Technical University for further development and optimisation of water quenches and more efficient cooling processes. All of this is possible thanks to European subsidies.

www.ferram-strojirna.cz

GCC output in 2016

Collectively the five aluminium primary producers (EGA (UAE), Alba (Bahrain), Ma'aden Aluminium (KSA), Qatalum (Qatar) and Sohar Aluminium (Oman) have produced 5,229,115 tons of primary aluminium in 2016. GCC aluminium production constitutes 10% of the total world production and is considered one of the key economic drivers for the Gulf region. 40% of the total production is utilised by the downstream aluminium industries in the Gulf and 60% exported to different parts of the world.