

Energy Optimization Project at EGA's operating subsidiary Dubai Aluminium (Dubai), also known as EGA Jebel Ali in the UAE. SNC-Lavalin will upgrade the three original potlines at the smelter. This will involve modifying existing equipment to implement EGA's in-house developed D18+ technology, as well as installing a new potline control system and transformer rectifier swing unit. Work has already begun and the project is expected to conclude in 2017.

Alba adds new rectifier to Potline 5

Aluminium Bahrain (Alba) has successfully completed the integration of an additional Line 5 Rectifier (R50). The rectifier is a critical piece of power equipment used in the smelting process. The addition of R50 will further enhance Alba's ability to meet future creep capacity objectives as well as provide added backup protection. The project was executed in 22 months without impacting metal production.

Wefa invests millions in its locations

The extrusion die factory Wefa of Singen, Germany, is currently facing excellent order volume due to the increased worldwide need for aluminium profiles mainly for heat exchanger profiles in the automotive and heating/ventilation/air-conditioning (HVAC) industry. In order to meet the high demand and to produce more efficiently, the company will invest €5m in its locations in 2015.

The 200 staff members are employed in the locations at Singen, Decin (Czech Republic), Thayngen (Switzerland) and Cedar

Springs (Michigan, USA). The company is a worldwide leading producer of extrusion dies and patent holder for CVD coated die technology.

The main drivers for growth are the markets in Europe, North America and Asia. Due to its high lifetime, low maintenance and high productivity, Wefa dies are successfully used for high precision aluminium profiles.

Seco/Warwick brands its drop-bottom furnace VertiQuench

Seco/Warwick has registered its drop-bottom furnaces under the brand name VertiQuench. The name points to the process of very fast vertical quenching. The heat-treated material is dropped into the quenching tank placed exactly under the furnace. This is an affordable solution for demanding aerospace applications that provides AMS2750-compliant quench transfer times, tight temperature uniformity resulting from proprietary and proven airflow innovations, fast and full load immersion up to five seconds, low utilities consumption and a compact design, which enables line expansion.

Outotec completes acquisition of Kempe Engineering's Mena business

Outotec has completed the acquisition of Kempe Engineering's aluminium smelter technologies as well as service and spare parts businesses in the Middle East and Africa. The acquisition of Kempe will strengthen Outotec's business in the Mena region by doubling the installed base and providing new capabilities to expand the service business. Kempe will

also bring additional best cost country sourcing and a manufacturing facility in the United Arab Emirates. A large amount of Kempe's proprietary equipment will complement Outotec's aluminium product portfolio and enable further growth of Outotec's equipment and spare parts business globally.

The annual sales of the acquired businesses are around €25m, and Outotec plans to double the business volume in the next few years. Nearly 400 of Kempe's employees will join Outotec team of nearly 5,000 employees worldwide.

Trimet orders ingot caster from Hertwich Engineering

Trimet Aluminium of Essen, Germany, has placed an order with Hertwich Engineering for a horizontal continuous caster (HDC) for foundry ingots. This will enable the company to produce high-quality alloyed ingots. The annual capacity of the plant is 60,000 tonnes.

The HDC operates with an ingot format of approx. 2.0 x 3.5 inches. It is thus roughly 15% more productive than plants which produce the standard ingot format (2.0 x 3.0 inch). The casting capacity of the 32-strand caster is between 9 and 13 t/h and depends on to cast alloy.

The scope of supply includes the casting system consisting of casting tundish and moulds, a casting machine and the cooling water control system. It also encompasses a flying saw with swarf exhausting system and an automatic stacking and packing system. A weighing unit and an accumulator roller table for ingot stacks complete the delivery package. The caster is scheduled to go into operation at the end of the third quarter 2015. ■

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Fortsetzung aus ALUMINIUM 3/2015

Optimierung und Steuerung von metallurgischen Eigenschaften während der Homogenisierung einer Legierung. Kaiser Aluminum, Foothill Ranch, Calif., US. (C22F 1/04, PS 60 2012 000 731, EP 2508642, AT: 27.03.2012, EP-AT: 27.03.2012)

Verfahren zur Herstellung geschmiedeter Bauteile aus einer Ti-Al-Legierung und entsprechend hergestelltes Bauteil. MTU Aero Engines GmbH, 80995 München, DE. (C22C 14/00, EPA 2807281, WO 2013/110260, EP-AT: 19.01.2013, WO-AT: 19.01.2013)

Entwässerungsvorrichtung sowie Profilanordnung mit einer Entwässerungsvorrichtung. Alcoa Aluminium Deutschland, Inc., 58642 Iserlohn, DE. (E06B 7/14, EPA 2813661, EP-AT: 15.05.2014, WO-AT: 15.05.2014)

Hülsenbefestigungselement mit Presspassung für Verbundwerkstoffe. Alcoa Global Fasteners Inc., Torrance, Calif., US. (F16B 19/08, GM 20 2007 019 651, AT: 19.09.2007)

Aluminiumlegierungsband mit verbesserter Oberflächenoptik und Verfahren zu dessen Herstellung. Hydro Aluminium Rolled Products GmbH, 41515 Grevenbroich, DE. (C23G 1/22, EPA 2809832, WO 2013/113598, EP-AT: 23.01.2013, WO-AT: 23.01.2013)

Verfahren zur Verbindung einer Aluminiumlegierungs-lamelle an ein Stahlrohr und daraus hergestellter Wärmetauscher. Aleris Rolled Products Germany GmbH, 56070 Koblenz, DE. (B32B 15/01, EP 2 574 453, AT: 30.09.2011, EP-AT: 30.09.2011)

Doppeldüsen-Kühlvorrichtung für eine semi-kontinuierliche vertikale Gussform. Constellium France, 75008 Paris, FR. (B22D 11/20, EP 2 802 427, WO 2013/104846, EP-AT: 08.01.2013, WO-AT: 08.01.2013)

Inline-Oberflächenbehandlung zur Herstellung von Aluminiumstrangpressprofilen mit korrosionsbeständiger Beschichtung. Constellium Extrusions Deutschland GmbH, 74564 Crailsheim,