OTTO JUNKER supplies pusher furnace for aluminum ingots with a capacity of 1,000 tonnes to the USA

In 2019, OTTO JUNKER GmbH handed over a new furnace for heating and homogenizing aluminum ingots to Logan Aluminum Inc. in Russellville/Kentucky/USA.

Logan Aluminum Inc. is one of the world’s leading manufacturers of flat rolled aluminum sheet, a product that is primarily destined for use in the beverage market. In order to expand production, the company now operates the largest ingot furnace OTTO JUNKER GmbH has supplied in its entire history.

The gas-fired furnace is dimensioned to simultaneously hold 32 ingots weighing up to 32 tonnes per piece, resulting in a charge weight of over 1,000 tonnes.

Apart from the furnace with active cooling system, the scope of delivery also included machinery for charging and discharging the ingots, as well as a gantry crane and a mobile roller table as a connection to the existing rolling mill feed table.
OTTO JUNKER technology is highly efficient when it comes to even temperature distribution, energy consumption and automation. High convection technology ensures fast heating and cooling with short cycle times and low energy consumption.

Otto Junker’s skid system integrated into this furnace has been tried and tested over many years and is virtually maintenance-free. Used to transport the ingots one by one through the furnace, it is made of a number of cast parts manufactured in OTTO JUNKER’s own stainless steel foundry. During the earlier stages of the skid system development, the extensive expertise of OTTO JUNKER’s stainless steel foundry could already be drawn upon when selecting alloys.

With the successful completion of this order, OTTO JUNKER has demonstrated that its pusher furnace technology is highly efficient in the largest class of this type of furnace.