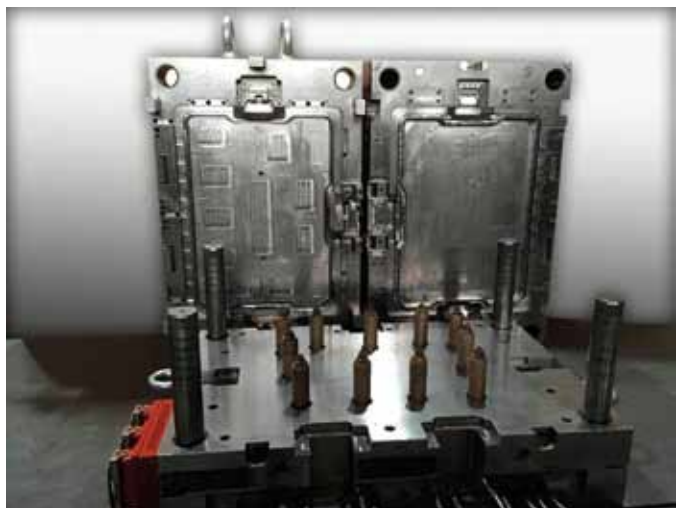


Development of a mold with more than 20 tons total weight for suitcase frames

LiuTek International GmbH, domiciled in Nürnberg, Germany, recently completed the development of a tool for a suitcase producer within record time. With a total tool weight of more than 20 tons and as many as 20 hydraulic core pulls, the technically extremely demanding project comprising four tools for two suitcase frames for a German producer has been implemented. Another challenge was

the restriction in size to suit an injection molding machine by Krauss Maffei with a closing force of 350 tons. The tight period of merely ten weeks available for the first off-tool parts was of crucial importance to the development, too. To ensure the component is free from connecting seams and has minimum distortion, an 11-fold valve gate system made by Yudo was selected for gating.

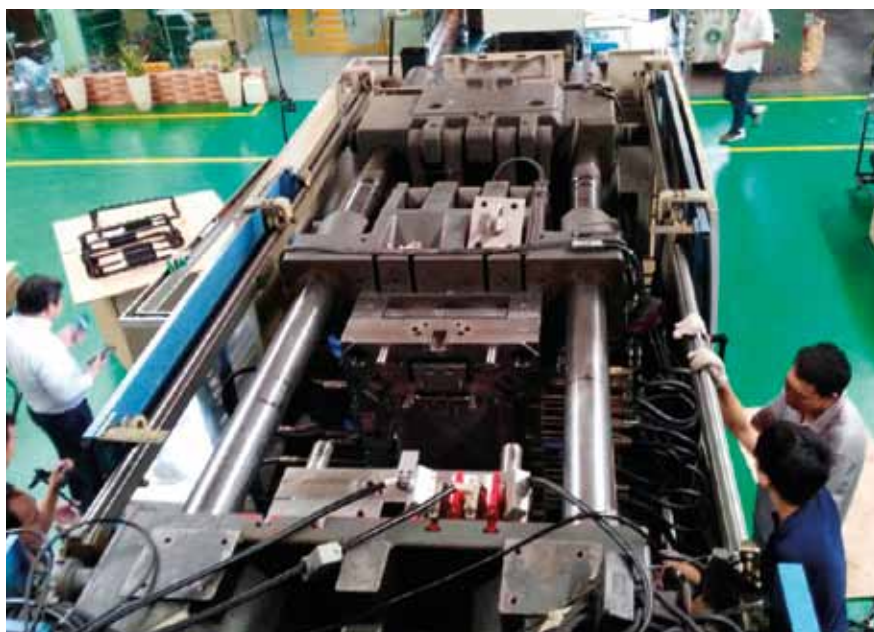
This decision was made due to the short delivery time. To be able to implement the demolding process despite of the limited space conditions, LiuTek had to find new approaches. Innovative technical solutions were developed for the area of the gate system recesses as well as the hinge. In the recess area, a lever-actuated curved slide of innovative, space-saving design is used. Instead



of sloping ejectors generally used for hinge demolding, a much more robust, hydraulically controlled slide was fitted. A complex mechanical system transfers the vertical movement of the cylinder into the required horizontal motion. After an intense testing and optimization phase of three weeks, the tools were supplied to the Bavarian customer ready for series production.

LiuTek International GmbH

Founded in 2010, LiuTek International GmbH is domiciled in Nürnberg, Germany, with own manufacturing shops in Shenzhen, China. In addition to its manufacturing activities, the company places high importance on providing its customers full service and support. The tool shop is equipped with a state-of-the-art machine park and offers individual solutions for elaborate and complex single- or multi-component tools, index plate technology, stack molds, gas and water injection technology, tools with inserts or extraordinary injection molding tools for special purposes up to 3,200 tons closing force. The company is able to produce tools up to a weight of 10 tons. Thanks to its latest procurement, two Haitian injection molding machines of 110 and 250 tons, inhouse sampling is now possible, too.



(Pictures:
LiuTek International GmbH,
Nürnberg, Germany)