

# **WINTEC UNVEILS TWO EXHIBITS AT CHINAPLAS 2016**

## **Premiere for all-electric e-win:**

By focusing on productivity, quality and energy efficiency, WINTEC – based in the Chinese city of Changzhou – is improving the performance of standard injection moulding machines for the Asian market with an attractive price-performance ratio. At Chinaplas 2016, which takes place in Shanghai from **April 25<sup>th</sup> to 28<sup>th</sup>**, the branch of Austria's ENGEL Group will for the first time present one of the new all-electric e-win series alongside a large-size t-win machine.

## **e-win: cost effective from the start:**

WINTEC's new e-win injection moulding machines combine all-electric drive technology with maximum quality, outstanding productivity and compact machine design – all tailored to the exact needs of standard applications. "The e-win injection moulding machines guarantee our clients a very fast return on investment," says Peter Auinger, President of WINTEC. "In this way, we enable processing businesses to get involved in all-electric injection moulding technology at no risk and keep pace with the trend towards ever higher production quality."

At the Chinaplas event, an e-win 1000-170 with clamping force of 1,000 kN will be used to produce Lamp Shields. The shot weight will be 14 g per component, with the mould provided by a WINTEC customer that produces large quantities of the Lamp Shields. Since the Lamp Shields still need to be aluminium-plating before headlamp assembly, injection moulding places high demands on surface quality. "Aluminium-plating would also reveal the tiniest irregularities and lead to rejection," explains Auinger. "For this application, an all-electric injection moulding machine that guarantees high precision and process stability is first choice. An automated process is also important when it comes to raising quality."

The C2 control unit for WINTEC injection moulding machines offers ample flexibility in terms of connecting robots of various types and brands. The C2 is characterised by intuitive operation, which reduces the risk of operator error. The entire machine status is displayed on a clear-cut single screen. A quick adjustment page groups the most important setting parameters in a compact way. To ensure an ergonomic workflow, the 15" touchscreen can be swivelled out forward and is height adjustable. In terms of processing power, the C2 control unit outperforms control units of other machine producers in this area by 33 percent.

WINTEC is initially offering the new all-electric e-win injection moulding machines in two machine sizes, with clamping force of 1,000 and 1,800 kN.

## **Hydraulic t-win very well established:**

Since being launched on the market two years ago, the t-win series of hydraulic injection moulding machines has become strongly established on Asian markets in such fields as automotive and white goods. "Above all, our customers value the excellent manufacturing and product quality of our machines," says Auinger. "After placing their first order, many of them ordered additional t-win machines." The t-win machines are used for high-volume

standard applications which, although not requiring specialist technology, nonetheless place high demands on quality and process stability.

During Chinaplas, a t-win 4500-3300 injection moulding machine with clamping force of 4,500 kN will impressively demonstrate the performance of the series. Lamp Tubus will be manufactured from polycarbonate in a two-cavity mould also to be supplied by a WINTEC client. These parts need to be Aluminium-plating before assembling. Over the four days of the trade show, an ENGEL viper robot will remove the parts and place them on a conveyor belt. As a member of the ENGEL Group, WINTEC is in a position to deliver integrated manufacturing cells from a single source, with robots developed and produced in-house.

### **Fast dry cycles and sensitive mould protection**

The t-win machines are fitted with a servowin servohydraulic as standard. This cuts energy consumption by more than 60 percent in comparison with conventional hydraulic injection moulding machines. Other factors that ensure the extremely high energy efficiency of t-win machines include operating point optimisation and the dual-platen design of the clamping unit, with a reduced moving platen weight and frictionless movements due to zero contact between tie-bars and platen. The linear guidance of the movable mould mounting platen reduces friction and keeps the mould area free of lubricating oil.

The dual-platen clamping unit was developed in Europe and guarantees maximum platen parallelism throughout the machine's service life, which results in sensitive mould protection, excellent dynamics and short dry cycle times. Parallel auxiliary movements are also optionally supported.

The t-win injection moulding machines are available in six sizes with clamping forces of between 4,500 and 17,500 kN.



### **Fast, local service:**

WINTEC was launched in 2014 with the aim of making reliable, high quality and durable injection moulding machines for the manufacture of standard products on markets in Asia. As a member of the ENGEL corporate group with headquarters in Schwertberg, Austria, WINTEC can draw on 70-plus years of mechanical engineering experience. ENGEL, the world's largest producer of injection moulding machines, leads the field in energy efficient drive technology. At the turn of the new millennium, the company became one of the first in Europe to produce all-electric injection moulding machines.

**WINTEC at Chinaplas 2016: hall E5, stand F41**