



Press Release  
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Specialist for temperature-control and cooling systems with many new products for processors

## **SINGLE at Fakuma: SCT control unit offers more versatility and higher production rates**

At Fakuma 2014, which will take place from 14 October until 18 October in Friedrichshafen/Germany, SINGLE Temperiertechnik GmbH of Hochdorf will present its new SCT control unit. Since K 2013, it has become established as a standard feature of most SINGLE temperature-control and cooling systems and has been available for basic and standardised systems as an option. SINGLE presents the SCT unit at work in many different temperature-control and cooling systems. An Arburg injection moulding machine is shown in a live demonstration at a partner stand operated by SINGLE's cooperation partner Durotherm (Hall A3, Stand 3102). This machine is equipped with an ATT (Alternating Temperature Technology) system that uses variotherm cavity temperature control to improve the quality of injection moulded parts.

The feedback on the SCT as a central control element with 7" colour touch screen from international customers has been very positive. The self-explanatory graphical interface with intuitive navigation provides users with helpful instruction messages (available in 16 languages) and offers services such maintenance reminder messages.

The SCT basic configuration provides a variety of code-activated interfaces, which can be active at the same time if the system is operated on different machines. Thanks to its high functional range and the coded activation of extra functions, this control system provides the versatility that it needs to meet different requirements quickly and easily.

All versions allow the alternative use of the pump control output for control of an optional frequency converter for volume flow control and for setting the pressure limit for sensitive consumer systems. The wide variety of parameter options, e.g. programmed operation or volume flow control, meets every requirement.

Data export and import via USB interface for memory sticks provides full communication capability and allows the integration of the temperature-control system into MES, BDE or QA systems.

The wide variety of options and interfaces facilitate the active preventative maintenance of temperature-control or cooling systems. The performance of the installed solutions can be monitored so that the necessary counteractive measures can be taken if required. The SCT also features a battery-operated clock timer and a log. This process documentation readily provides a total of ten process parameters including alarms via USB interface. The hardware configuration including operator manual and spare parts list is stored and can be downloaded via the USB interface.



*The intelligent SCT control unit is distinguished by its operator-friendly design; the clearly structured menu-operator interface is easily navigated.*

*Photo by SINGLE Temperier-technik GmbH ,  
Hochdorf/Germany*

### **ATT Alternating Temperature Technology with many new features**

In a live demonstration on an Arburg Allrounder 420 C Golden Edition injection moulding machine operated at the SINGLE stand, the ATT (Alternating Temperature Technology) system provides first-hand evidence of its positive effect on the quality of injection moulded parts and on cycle time reduction.

ATT accommodates very flexible processes: several valve modules can be activated for each system, at any required time, and maximum or minimum temperatures can be freely selected for each cavity section. This way, the process of alternating temperatures can be used to optimise the overall energy consumption.

Intense development efforts have now extended the ATT technology's potential range of application to the production of composites: ATT cuts cycle times and improves the quality of surface structures. SINGLE also offers customers the benefit of their experience with the optimisation of the production processes of foam moulding techniques, with the improvement of two-component and three-component rotary moulds and with vertical machine processes.



SINGLE's Alternating Temperature Technology is an energy-efficient system solution for the variotherm temperature control of fluids in injection moulding and compression moulds. Using ATT, plastics processors can tap into the full optimisation potential of injection moulding processes. Cold and hot fluids alternately pass through the channels, which are positioned close to the mould contours. Cavity inserts meet the challenges of problematic sections or service complete, smaller moulds and handle temperature fluctuations of more than 100°C.

**SINGLE at Fakuma 2014: Hall A3, Stand 3102**

### **SINGLE in profile**

SINGLE has been developing, producing and selling high-performance temperature control systems for more than forty-five years. The company's product portfolio consists of water- and oil-operated, high-quality temperature control systems, cooling technology as well as tailor-made and customised solutions. SINGLE uses only top-quality components and materials. Long-standing customers testify to the ease-of-use and the reliable operation of SINGLE systems even under a high workload.

SINGLE offers a complete standard range of oil- and pressurised-water-operated systems with maximum heating capacities of 144 kW and temperatures of between -40°C and +350°C. In addition to this, SINGLE provides extensive engineering and caters to all phases of the process chain with systems from one source – from initial product conception, design, production and final assembly of temperature control technology systems right through to the installation's commissioning.

In addition to plastics processors and manufacturers of plastics processing machines, SINGLE caters to customers in the die-casting, chemical and pharmaceutical industry as well as to the metal plating industry, the food production segment and is used for test bench technology and many more applications.

A network of regional sales partners and service points as well as subsidiaries in the US and China are the cornerstones of SINGLE's international presence. Services and after-sales support on all temperature-control related matters, commissioning and on- and off-site training complete SINGLE's portfolio. SINGLE is certified to EN ISO 9001:2000, has technology and manufacturer certifications that meet the European Pressure Equipment Directive (PED) and complies with standards such as UL and regional directives to CSA and GOST.

The company, which employs about 140 people at its facility in Hochdorf near Stuttgart/Germany, has been a member of Looser Holding AG of Winterthur/Switzerland since 2006

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