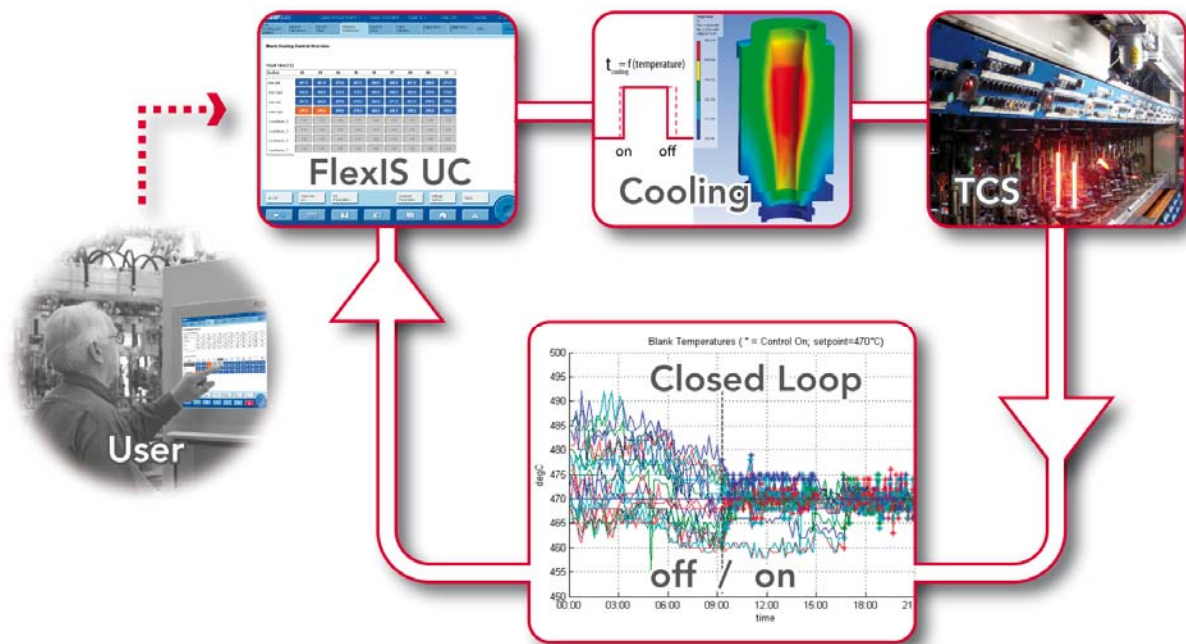


Technical News Bulletin

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FlexIS Blank Cooling Control



Introduction

FlexIS Blank Cooling Control is a new optional control loop available in the FlexIS Timing using information from the TCS (Temperature Control System). It gets the measured temperature values of the mold surfaces and adjusts automatically the duration of the mold cooling.

Depending on the machine type and configuration, up to 72 mold halves are permanently monitored and adjusted to slow changes of surrounding parameters. This leads to more stable production runs and also prevents quality problems like leaners, for example.

Application

FlexIS Blank Cooling Control is very beneficial for all types of production.

Setting Description

FlexIS Blank Cooling Control is fully integrated into the FlexIS controls. All settings are done on the User Console and are stored as job data. The configuration setup can be done according to the number of available cooling valves and according to the locations measured by the TCS.

Settings (all per closed loop)

- FlexIS Blank Cooling Control on / off
- Setpoint value for temperature
- Upper and lower limits

Feedback to the user (all per closed loop)

- Actual (measured) temperatures
- FlexIS Blank Cooling Control on / off (status)
- Cooling duration (event OFF-ON)
- Cooling duration reached a limit (status)

Description	inner left	inner right	outer left	outer right	No Event	No Event	No Event	No Event
Setpoint value [°C]	480.0	480.0	480.0	480.0	0.0	0.0	0.0	0.0
Actual value [°C]	477.0	477.0	477.0	477.0	-1	-1	-1	-1
Cooling duration [s]	302.0	297.3	294.2	250.0	000.0	000.0	000.0	000.0
Lower limit [°]	300.0	300.0	300.0	300.0	000.0	000.0	000.0	000.0
Upper limit [°]	350.0	350.0	350.0	350.0	000.0	000.0	000.0	000.0
	Take over act.	Take over act.	Take over act.	Take over act.	Take over act.	Take over act.	Take over act.	Take over act.
	on / off	on / off	on / off	on / off	on / off	on / off	on / off	on / off

Setpoint values and measured values with colored status indication shown in the Settings Section page (sample values).

Functions

- See all values per section or grouped in an overview

- Fill values to all closed loops or to all sections

Remote Access Extension

Due to the communication with the FlexIS, the TCS gets accessible through the FlexIS remote access system.

Installation Requirements

FlexIS Blank Cooling Control can be ordered as an **option** on any forming machine controlled by **FlexIS** and having **TCS** (Temperature Control System).

Package includes:

- 601-20001-4 Software License "FlexIS Blank Cooling Control
Minimal FlexIS software version: update package 1.07.03.019
- 601-217-1&3 External System Communication Kit (communication between TCS and FlexIS), fits into machine controller cabinet.
- 601-20015 Latest UC hardware for older installations

Documentation

H11104_EN is the English manual of FlexIS Blank Cooling Control

Availability

The 'FlexIS Blank Cooling Control' closed loop is available from February 2013.

Feature/Benefit

Features	Benefit
<ul style="list-style-type: none"> • FlexIS Blank Cooling Control is fully integrated into the FlexIS controls, stored in the job file 	<ul style="list-style-type: none"> • Reduced complexity / better ease of use • Improved start up after job change
<ul style="list-style-type: none"> • No additional cabling or sensors in the machine 	<ul style="list-style-type: none"> • Accessibility and mold change procedure stay as before
<ul style="list-style-type: none"> • Automatically adjusts temperatures of mold halves 	<ul style="list-style-type: none"> • Keeps process steady / less variation <ul style="list-style-type: none"> - over time - between cavity halves - less stops ⇒ higher quality / pack rate
<ul style="list-style-type: none"> • TCS remote access through the FlexIS remote access system 	<ul style="list-style-type: none"> • Optimal addition to FlexIS remote service. Experts can support remotely auditing real time TCS and Blank Cooling closed loop.