

Based on our Universal Thermoformer Control (UTC), the UTC-MP from Automation Control Source has been engineered as a direct replacement retrofit kit for Microphaser controlled Thermoformers. This Kit includes a PCB Interface board with all connector headers required to connect to existing machine control cable connectors. The acquired electrical signals are processed via I/O Modules mounted directly on the other side of the PCB Interface board. The mapped signals are then transmitted to a PLC Runtime and the Operator controls the system on a touchscreen HMI. All of these components are an integral part of the UTC-MP Retrofit Kit.

The UTC-MP integrates the latest in both industrial control technology hardware and software and uses only standardized programming function blocks.

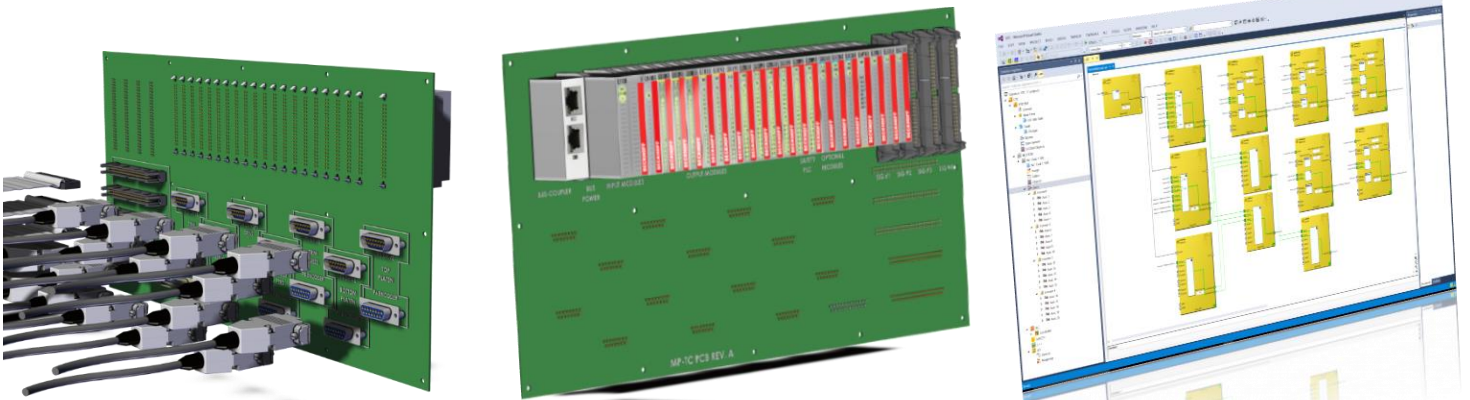
**As an open solution the UTC-MP is capable of controlling any legacy analog servo drive/motor package, as well as the latest available in digital servo drives/motors with Fieldbus interface. All without requiring you to change your PLC program.**



By providing an abstraction layer between the Control Program and the attached hardware, your machine control is freed from the legacy “control-hardware-vendor lock-in”. You’ll no longer have to worry about having to use obsolete and expensive OEM components.

Everything you need to control your thermoforming equipment is included, whether it be your first machine or your next generation of equipment. With a spectacular 21.5” panel mount or standalone HMI multi-touch screen, the operator has full control over the machine recipe, temperature, feeding, forming and trimming; including precise process-triggers. The HMI design is modern and very intuitive, minimizing the learning curve for your operators.

The UTC-MP platform from Automation Control Source is worry free and easy to maintain, as all of the machine parameters and configurations are controller based. This makes the replacing of individual machine control components a breeze. The UTC-MP’s open architecture also allows for seamless integration into existing SCADA, OPC UA, or any other IOT reporting or analytics platform.



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**UTC-MP TECHNICAL SPECIFICATIONS:**

DESCRIPTION OF FEATURES	MP MACHINE CONTROL	MP MACHINE OPTION(S)
<b>HMI</b>		
Panel Mount Model	Beckhoff CP2921	-
Standalone Model	Beckhoff CP3921	Dell S22440T
Size	21.5"	21.5"
Resolution	1920 x 1080, HD	1920 x 1080, HD
Touchscreen	Multitouch	Multitouch
Development	< 4000 Tags	
<b>Embedded Industrial PC</b>		
Model	Beckhoff CX5120	
Processor	Intel Atom 1.4 GHz, 1 Core	
Operating System	Win7 Standard Embedded, 32 or 64 Bit	
RAM, SSD	2 GB DD3 RAM, 8 GB CFAST Card	
<b>Safety PLC Module</b>	Beckhoff EJ-6900	Beckhoff EL-6900
<b>Safety Input Module EJ1914</b>	1, 4 Channel	EL1904 1, 4 Channel
<b>Safety Output Module EJ2914</b>	1, 4 Channel	EL2904 1, 4 Channel
<b>Safety Relay</b>	1	
<b>PCB Board &amp; I/O MODULES</b>		
PCB BOARD (4 Layer)	1	
Digital and Analog I/O (ALL EJ Modules are Included)	< 300 Channels	
<b>Supported Motor Drive Interfaces</b>		
Analog	0-10V, -10-+10V	0-10V, -10-+10V, 4-20mA
Digital	Step/Direction	Step/Direction, PWM, Fieldbus
Fieldbus Protocols*  *(EtherCAT and one other included)	EtherCAT	EtherCAT, Ethernet, Profibus, Profinet, Ethernet/IP, CANopen, Sercos, CC-Link, Modbus, RS232/485 and many others
Servo Control Type	Position, Velocity	Position, Velocity or Both
Encoder Feedback 5 Modules Included	8-Bit Graycode CMOS	Incremental/SinCos, RS422, SSI, EnDAT2.2, BISS or Fieldbus
<b>Lifetime Licenses (Included)</b>		
HMI Runtime License	4000 Tags	
TC3, PLC, NC-PTP and Temperature Controller Runtime Licenses	Performance Plus (40)	
<b>Pricing</b>		
UTC-MP Kit	Upon request	