

Innovative professional manufacture and design



digital
fashional
customized

Improvement of the traditional plastic injection molding machine functions.

Provide the high quality but low cost products.

Development of the network system software to strengthen management capabilities

Customized design provides the best service for the customer

The Most Widely Utilized Injection Molding Machine Control System in the World.

On all in-house co-developed software and hardware design and development offers an independent and exclusive controller that is fully customizable to the customers' needs and demands to offer the biggest scope of growth opportunity.

Mold group design is fully adaptable to all large machinery companies. Techmation is able to redesign and/or reinstall to fulfill all of the customers' specific demands and needs.

Both the changeable rack and single board controller are suitable for all types of large-scale or small-scale machinery. Furthermore, specific customization can be achieved with numerous extension for more variety or an efficiently packed unit for low cost design.

Controller

HYB Controller (*Analog saving hydraulic power unit)

size(mm) : 426(L)x255(W)x75(H)

Central Processor : TM320VC5402PGE100(DSP 16bit@80MHz)

Analog Input	4 channels :
(Position/Pressure Sensor)	16 bits 0~10 Vdc
Analog Input	7 zones :
(Temperature)	6 zones (barrel) + 1 zone (Hyd.Temperature)
Analog Output	3 channels :
(Proportional Valve)	0~+10 Vdc
Input	24 points Photo Couple Isolated (Max. 32 points) - EXDI088 Optional
Output	28 points (Max.36 points) - EXDI088 Optional
Relay Output	12 points :
	6 points (Temperature) + 3 points (Motor Start) + 3 points (Other)

> HYB Controller



CUSTOMIZED Controller size(mm) : 424(L)x80(W)x47(H)

Central Processor : TMS320F2812PGFA DSP 32bit @150MHz

Analog Input	7 channels :
(Position/Pressure Sensor)	16 bits 0~10 Vdc
Analog Input	24 zones :
(Temperature)	(-25-770°C 16bit resolution)
Analog Output	4 channels
(Proportional Valve)	
Input	16 points, Photo Couple Isolated
Relay Output	48 points

> CUSTOMIZED Controller



PILOT3 Controller size(mm) : 426(L)x255(W)x75(H)

Central Processor : TMS320VC5402PGE100(DSP 16bit @80MHz)

Analog Input	8 channels :
(Position/Pressure Sensor)	16 bits 0~10 Vdc
Analog Input	10 zones :
(Temperature)	9 zones (barrel) + 1 zone (Hyd.Temperature)
Analog Output	8 channels :
(Proportional Valve)	12 bits 0~1 Adc x4 // 0~+10 Vdc x4
Input	40 points • Photo Couple Isolated (Max 48 points) , EXDI088 Optional)
Output	40 points • MOSFET Output , (Max 48 points) • EXDI088 Optional
Relay Output	16 points :
	9 points (Temperature) + 3 points (Motor Start) + 4 points (Other)

> PILOT3 Controller



AK668 Controller size(mm) : 426(L)x255(W)x75(H)

Central Processor : TMS320VC5402PGE(DSP16bit @80MHz)

Analog Input	8 channels :
(Position/Pressure Sensor)	16 bits 0~10 Vdc
Analog Input	10 zones :
(Temperature)	9 zones (barrel) + 1 zone (Hyd. Temperature)
Analog Output	4 channels :
(Proportional Valve)	12 bits 0~1 Adc x4 // 0~+10 Vdc x4
Input	32 points , Photo Couple(Max.40points)-EXDI088 0pints
Output	32 points (Max. 40 points) — EXDI088 Optional
Relay Output	16 points :
	9 points (Temperature) + 3 points (Motor Start) + 4 points (Other)

> AK668 Controller



AK668E Controller size(mm) : 426(L)x255(W)x75(H)

Central Processor : TMS320VC5402PGE100(DSP 16bit @80MHz)

Analog Input	4 channels :
(Position/Pressure Sensor)	16 bits 0~10 Vdc
Analog Input	7 zones :
(Temperature)	6 zones (barrel) + 1 zone (Hyd. Temperature)
Analog Output	3 channels :
(Proportional Valve)	12 bits 0~1 Adc x3 // 0~+10 Vdc x2
Input	24 points , Photo Couple Isolated(Max.32points)-EXDI088 Optional
Output	28 points(Max. 36 points) —EXDI088 Optional
Relay Output	12 points :
	6 points (Temperature) + 3 points (Motor Start) + 3 points (Other)

> AK668E Controller



C7000 Controller RACK-4 size(mm) : 345(L)x145(W)x205(D)

Central Processor ; TMS320VC5402PGE100(DSP16bit @80MHz)

Analog Input	6 channels + 2ch (-10V~0~+10V) :
(Position/Pressure Sensor)	16 bits 0~10 Vdc
Analog Input	10 zones :
(Temperature)	9 zones (barrel) + 1 zone (Hyd. Temperature)
Analog Output	3 channels 0-1Adc x 3 :
(Proportional Valve)	(Max.16 channels) (0~10V) or (Max 8 channels) (±10V)
Input	32 points or 48 points (Max.96 points) , Photo Couple
Output	32 points or 48 points (Max.96 points)

> C7000 Controller



C8000 Controller size(mm) : 325(L)x226(W)x226(H)

Central Processor ; Intel ULV Celeron 400MHz

Analog Input	6 channels + 2ch (-10V~0~+10V) :
(Position/Pressure Sensor)	16 bits 0~10 Vdc
Analog Input	10 zones :
(Temperature)	9 zones (barrel) + 1 zone (Hyd. Temperature)
Analog Output	8 channels 0~1Adc x 4+0~+10V Vdc x 4 :
(Proportional Valve)	(Max.16 channels) (0~10V or ±10V)
Input	32 points , Photo Couple + 48 points use in panel
Output	32 points + 48 points use in panel

> C8000 Controller



Techmation Co., Ltd.

Founded in 1985, Techmation Co., Ltd. was the first to develop a Chinese-display computer control or injection molding machine in Asia.

We adopt an operating model that integrates both software and hardware in our production of full-computer automatic control systems to fully support machinery industry, maintenance, upgrading and full-scale integration of machinery.

In 2003, we developed iNet (Injection Molding Machine Premier Network System) to facilitate factory's production and management.

To follow the global trend of energy-saving and carbon reduction, we have been sparing no efforts in the development of HYB (Hybrid Machine Controller).

More than 200,000 units of plastic machine control system have been sold to over 100 customers around the world. Our system has been the world's most widely used injection molding machine control system.

We have set up our service offices in the US, Brazil, Turkey, Iran, India and other countries to provide our customers with the most expeditious and effective terminal services in the world.

In addition to the professional control system for plastic injection machine, we also provide system integration service and control systems for blow moulding machine, extruder control machine, injection blow moulding machine, etc. Moreover, we also deal with industry automation system such as the development of control systems for die casting machine, punching machine, rolling ring machine and so on.

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