

PLASTICS

KePlast i2900

Flexible all-rounder – powerful multi-talent with intuitive touch screen



KePlast i2900 is designed for the flexible use of hydraulic, hybrid, or fully electric injection molding machines (IMM). Thanks to its scalable hardware platform, the system is also particularly suitable for usage in 2-platen machines, multi-component, or special machines with additional peripheral devices. The intuitive operation of the system is performed on the established and industrially suitable resistive single-touch screen.

Industry 4.0-compatible control with single-touch operation

The hardware consists of a powerful single-board computer with scalable performance levels. I/O modules or electrical drives are connected via the integrated EtherCAT real-time bus. The modern Linux-based software platform guarantees Industry 4.0 readiness through interface standards such as OPC UA and EUROMAP 77.

Hardware-supported control concepts

With up to 500 μ s cycle time and innovative control concepts with direct hardware support, the best results in the process quality are guaranteed, and new standards are set in the control of complex injection molding processes. You can achieve an optimum process quality through the innovative features Fast Cut-Off Reaction and Fast Reaction Control.

KePlast i2900 highlights

- // For hydraulic, hybrid, and fully electric IMMs
- // Scalable hardware – based on Intel Atom
- // High-speed EtherCAT fieldbus
- // 12" to 15" TFT displays with single-touch operation
- // Seamless integration of KEBA drive technology including application packages for all-electric IMMs
- // Linux software platform for Industry 4.0



KePlast i2900

Navigate to the future with the optimized automation solution for injection molding machines

HMI – Visualization

- User-friendly operating panels with established single-touch screen
- 12” and 15” displays via DVI interface
- Analog resistive single-touch screens incl. an established machine keyboard & switches
- Fully customizable HMI hardware & software

Control & I/Os

- Powerful Linux-based platform & future-proof architecture
- Intel x86 multi-core CPU
- Compact control with integrated I/Os
- CP 053/054: KeControl C2 pin size of 5.08mm
- CP 056: KeControl C5 pin size of 3.81mm
- Fast EtherCAT fieldbus
- Fast response & up to 500µs cycle time



System	KePlast i2980	KePlast i2985
CPU	CP 053/Y, CP 054/Y, CP 056/E, CP 056/Y	
Interfaces	1x EtherCAT, 2x Ethernet, 2x USB, 1x CAN, 1x RS232/485	
Onboard I/Os	48 DI, 56 DO, 8 AI, 6 AOI, 10 TI	
OS / HMI	Linux OS / KeView Trend Single-touch Framework	
Operating panel	KeTop OP 350	KeTop OP 362

Operating panel	KeTop OP 350	KeTop OP 362
Display	12,1" SVGA 4:3 Landscape	15" XGA 4:3 Portrait
Touch & Operation	Single-touch analog resistive, microswitch keyboard	
Digital I/O	12 DI / 4 DO for external keys, buttons and lamps	

Control	CP 053	CP 054	CP 056
CPU	x86, 1x 1.91GHz	x86, 2x 1.91GHz	/E: 2x 1.75GHz, /Y: 3x 1.91GHz
Memory media	Compact Flash		micro SD
Cycle time	1ms	500µsec	/E: 1ms, /Y: 500µs
EtherCAT	Software Stack	Hardware Stack	Hardware Stack
Cut-off detection	x	x	
Cut-off reaction, up to 62.5µs			x
Fast reaction control		EtherCAT only	optional