

SES Standard Equipment



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Injection Unit

- General purpose screw assembly for unfilled resin
- Profile program for injection
 - 2 or 5 injection velocity set points
 - 2 or 4 hold pressure set points
- Ramping control of injection fill and hold
- Three selectable programs for plasticizing
- Injection unit programming in engineering units
- Digital readout of screw position to 0.01mm
- Injection start and plasticizing delay timers
- Peak pressure control during injection
- V/P switchover control (pressure/time/position)
- Timers for hold pressure profile to 0.01 sec.
- Screw pull back before and/or after plasticizing
- Auto slowdown function for screw rotation
- Automatic purging program
- Screw cold start-up protection (+/- 5°C from set point)
- Adjustable screw interlock timer with auto-reset
- PID temperature control of nozzle and barrel zones
- Selectable sprue break with delay timer
- Nozzle contact sensor
- Digital readout of screw RPM
- Water cooling jacket temperature indicator
- Protective purge shield with interlock
- Injection unit swivel and control panel pivot
- Closed-loop velocity and pressure control system

Clamp Unit

- Three-stage mold open/close speed control (%)
- Closed-loop control of mold open/close position and speed
- Selectable auto-ramping modes for clamp open/close
- Low pressure mold protection setting to 0.3mm
- Digital setting of mold open/close positions to 0.1mm
- Digital setting of mold clamping force
- Ejector with selectable multiple functions and speed
- Ejector forward delay and hold timers
- Digital setting of ejector stroke and speed (%)
- Ejector return confirmation signal
- Manual mode interlock for ejector
- Ejection during mold opening
- Motorized mold height adjustment
- Robot interface circuit (5 in/ 7out relay contacts)
- Standby mode for mold mounting with low clamp speed
- Operator's door interlocked electrically and mechanically
- Operator's door and rear guard with clear PMMA window
- Emergency stop button on operation side
- Mounting holes on top of fixed platen for robot
- Adjustment-free mechanical safety stop bar
- Grease-lubricated tie bar bushings
- Central automatic grease lubrication system
- Fully implemented ANSI B151.97 guarding

Electronic & Mechanical Systems

- Full-color TFT liquid crystal display
- Auto-programming of initial molding conditions
- Automatic calendar start-up system
- Multi-language selection
- On-screen operation guide for easy use
- Internal memory of 40 mold setup conditions
- Metric or English units selection
- Indicator of current molding cycle phase
- Logging of last 50 setup changes
- Real-time readout of actual operating values
- Graphic display of injection and clamp set values vs. actual
- Running hour meter and shot counter
- Supervision function monitor for unattended operation
- PID barrel temperature control setting to 0.1°C
- Temperature control for production and standby modes
- Fast-rise PID response curve for barrel heat up
- Two-second PID cycle for temperature control
- SSR control circuit for heater bands
- Hi/Lo alarm monitor of barrel temperatures
- Logging and display of abnormal functions
- Product quality control by injection value monitor
- Production control monitor and completion warning
- On-screen operation guide for maintenance
- On-screen diagnostics and troubleshooting
- Printer port with print screen function
- Audible warning alarm
- Two closed-circuit water connection lines
- Spare power supply receptacle
- Moving platen supports

Note:

Specifications subject to change without notice.



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