

SE-HD Standard Equipment



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Injection Unit

General purpose screw assembly for unfilled resin
Wear-resistant bimetallic lined barrel
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
High nozzle contact force
Digital readout of screw RPM
Water cooling jacket temperature PID temperature control
Sliding protective purge shield with interlock
Injection unit swivel and control panel pivot
Closed-loop velocity and pressure control system
Screw pullback delay
Insulated plasticizing cylinder cover
Synchronized plasticizing

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
Ejector return confirmation signal
Manual mode interlock for ejector
Ejection during mold opening
Ejection during mold close
Digital setting of ejector stroke (mm), velocity (%) and pressure (%)
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 and non-operation sides
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 B151.1-1997 guarding
Temporary stop of mold open/close
Robot interface with ejected product sensor

Clamp Unit (continued from previous column)

Mold ejector plate return signal confirmation
Mold valve gate control circuit
Multi-toggle clamp control circuit
Moving platen supports
Fully implemented ANSI B151.1-1997 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 200 mold setup conditions
Metric or English units selection
Indicator of current molding cycle phase
Logging of last 200 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
Open machine base with three-way part removal
Two closed-circuit water connection lines
Spare power supply receptacle
Mold open/close signals for hot runner (Spear)
Heater band burnout monitor and alarm
Auxiliary facility monitor
Production & quality monitoring with stocker feed signal
Auto start of heater bands with output signal
Printer connection circuit
Internal and external mold setup data storage
PC communication circuit port
Single point setup from Overall screen
Five of 24 output signal selection

Note:

Specifications subject to change without notice.



1266 Oakbrook Dr., Norcross, GA 30093
PH: (770) 447-5430