

SHC Standard Equipment

110-385 US tons



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Injection Unit

- General purpose screw assembly for unfilled resin
- Fine Flow Control screw assembly (\leq SH160C)
- Profile program for injection and plasticizing:
 - 2 or 5 injection velocity set points
 - 2 or 4 hold pressure set points
 - 2 screw back pressure set points
 - 2 screw revolution set points
- Closed-loop control of velocity and pressure
- Digital readout of screw position to .001 in.
- Injection start delay timer
- Injection speed selection (standard or low speed mode)
- V/P switchover control (pressure/time/position)
- Timers for hold pressure profile to 0.01 sec.
- Screw pull back before and/or after plasticizing
- Selectable sprue break with delay timer
- Auto slow down function for screw rotation
- Automatic purging program
- Intrusion molding circuit
- Screw cold start-up protection
- Adjustable screw interlock timer
- PID temperature control of barrel zones
- Nozzle PID temperature control (\leq SH160C)
- Digital readout of screw RPM
- Water cooling jacket temperature indicator
- Protective purge shield with interlock
- Injection unit swivel and control panel pivot
- Single torque range screw drive motor

Clamp Unit

- Three-stage mold open/close speed control (%)
- Closed-loop control of mold closing and opening
- Low pressure mold protection setting to .001 in.
- Digital setting of mold open/close positions to .01 in.
- Digital setting of mold clamping force
- Hydraulic ejector with selectable multiple functions
- Hydraulic ejector forward delay timer
- Digital setting of hydraulic ejector position and speed
- Hydraulic ejector forward hold timer
- Manual mode interlock for hydraulic ejector
- Movable platen supports (\geq SH220C)
- Motorized hydraulic mold height adjustment
- Robot interface circuit (5 in/7 out relay contacts)
- Standby mode for mold mounting with low clamp speed
- Operator's door interlocked hydraulically, electrically and mechanically
- Operator's door 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 grease lubrication of adjusting die plate
- Fully implemented ANSI B151.97 guarding

Electronic & Mechanical Systems

- Color TFT display (large 10.4 in. high-intensity LCD)
- On-screen operation guide for easy use
- Auto-programming of initial molding conditions
- Internal memory of conditions for 40 mold setups
- Multi-language selection
- Indicator of current molding cycle phase
- Logging of last 50 setup changes
- Real-time readout of actual operating values
- Graphic display of injection set values vs. actual
- Running hour meter and shot counter
- Supervision function monitor for unattended operation
- PID barrel temperature control setting to 0.1°F
- 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
- Overall cycle and plasticizing time monitor
- On-screen operation guide for maintenance
- On-screen diagnostics and troubleshooting
- Printer connection port
- Print screen function
- Audible warning alarm
- Oil temperature PID control and readout
- In-line return filter with bypass alarm
- 3-micron oil cleaner
- Suction strainer with blockage alarm
- Direct Digital Servo (DDS) system with closed-loop control of pressure and flow
- Triple Pump System (TPS) drive system with electronically controlled variable volume pump and two fixed pumps
- Star-Delta starter for 40hp motor and larger
- Open machine base with three-way part removal
- Two closed-circuit water connection lines

NOTE:

Specifications subject to change without notice.