



ABS-VH Series

Vertical cum Horizontal Screw type Micro Processor Controlled Plastic Injection Moulding Machine

Swivel Injection Unit



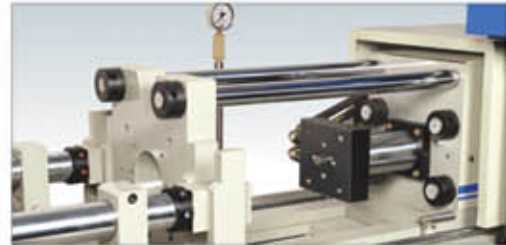
Special Features:

- Vertical injection as well as horizontal injection with the same machine.
- Fully hydraulic swivel injection unit with programmable speed & pressure controls.
- Very easy to mount mould of hand operated & horizon auto.

Standard Features:

Clamping Unit

- Linear transducer for clamping with 0.1mm accuracy.
- Strong clamping force.
- High tensile steel tie bars with wear resistant chromium plated.
- Multiple stage speed and pressure control for mold closing & opening.
- Quick clamping capability. (with high speed mould clamp)
- Initial and final stage of mould clamping action can be programmed to reduce speed.
- Mold clamping action can be set easily on the LCD display.
- Ejector speed & pressure control with digital settings.
- Adjustable high speed multiple shaking ejector function.



- Ejector with timer control.
- Variable ejector's forward and backward stroke control with inductive proximity switches.
- Safety doors with electric interlock and mechanical drop-bar protection.

Injection Unit

- The surface of screw and barrel are plasma-nitride to form a hard & wear resistant layer.
- Each injection stage has a ramp or delay for advance or retracts adjustment.
- Injection equipped with linear transducer of 0.1 mm accuracy.
- USA makes high torque hydraulic motor with variable speed control.
- Melt decompress device.
- Adjustable "back-pressure" control with pressure gauge.
- Injection process control has 5-speed & 5 pressures.
- Refill speed profiling 2 stages.
- Suck back with speed & pressure controls.
- Cold starting protection to prevent injection screw from damaging.



- Adjustable speed, position & pressure for injection & metering motion are set on the LCD display.
- Melt decompression & metering start under computer's timer control.
- PID temperature control with 7 zones.



We built the machine with the latest trends.

Hydraulic Control Unit

- Hydraulic components are imported from USA, Italy and Japan.
- The latest proportional 3-ways valve and circuit provides low energy consumption and excellent repeatability.
- Low-noise electric motor and hydraulic pump are standard.
- All valves are operated with 24v DC solenoid to prevent burning out or over heat.
- Suction line filter and return line filter and air breather.
- High performance hydraulic accessories and pipe fitting to get maximum pressure.



Electric Control Unit

- Standard A62 system is a user friendly, multiple function computer with a LCD display.
- All temperature control and operating data is shown and programmable on the LCD screen.
- Max. 7 zones of PID control for barrel temperature and one channel for hydraulic oil temperature detection.
- Production control and injection shot counters.
- Self-diagnostic and error history display.
- The main control board equipped with LED indicator.
- Machine status display functions, such as input or output signal.
- Internal memory storage up to 30 sets of mold data.
- Data lock & two level passwords to prevent improper adjustment.
- Screw tachometer with actual speed shown on LCD panel.
- Emergency stop button.



Technical Specifications

Injection Unit	Unit	ABS VH 60	ABS VH 100	ABS VH 150
Shot Weight Capacity	grams	60	100	150
Screw Diameter	mm	30	35	40
Injection Pressure	kg/cm ²	1500	1500	1500
Screw l/d Ratio	l/d	18:1	18:1	17:1
Screw Stroke	mm	100	120	160
Screw Speed	RPM	0-200	0-220	0-220
Hooper Capacity	kg	5	5	7

Clamping Unit	Unit	ABS VH 60	ABS VH 100	ABS VH 150
Mould Clamping Force	ton	25	35	40
Mold Height (Min-Max)	mm	75-225	75-260	75-270
Max Mould Size	mm	225 x 225	250 x 250	270 x 270
Mould Closing Stroke	mm	174	210	245
Max. Daylight	mm	444	530	580
Rem Diameter	mm	65	88	88
Mould Width Adj. Screw	mm	74	155	170
Locking Voice Travel	mm	100	100	100
Hydraulic Ejector Stroke	mm	50	50	75
Hydraulic Ejector Force	ton	1.8	1.8	1.8

General Data	Unit	ABS VH 60	ABS VH 100	ABS VH 150
Hydraulic Oil Tank Capacity	liters	150	210	210
Hydraulic Pump Motor	kW/HP	2.2 / 3	2.2 / 3	3.5 / 5
Heating Capacity	kW	3.9	3.9	4.8
Total Connected Load	kW	6.1	6.1	8.3
Heating Zones	nos.	4	4	4

Actual shot weight will be varied to various materials, all above data are subject to change without notice.