

All-electric injection molding machine





Compact machine for Large works

Supporting molded products in excess of 8500 kN class.

By consolidating the latest molding technologies of all-electric machines, condensed a plethora of advanced features and larger mold mounting performance into a compact machine frame, to deliver a "compact large class electric machine". Even the molded products at right - and larger versions as well -- that previously were produced on 8500 kN class machines can be made without defects, stress or waste using the CL2-7000 and its actual molding clamping force of 4420 kN.

■ Data

Product: Outer panel

Resin: PC

Num. of cavities: 2 (1set) Product weight: 580 g (1pc.) Projected area: 2240 cm² Cycle time: 65.0 sec

The figure of the product is 3D illustration of actual works.

Comparison of actual clamping force and mold parting Molds same product without flash



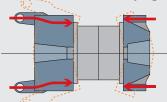
Mold parting: Opening between mold surfaces caused by injection pressure

Reduces the required clamping force by evenly distributing surface pressure against the mold

Double Center Press Platen

The Double Center Press Platen has greatly changed the concept of clamping force. Center Press Platens of extremely low flexing are provided on both the stationary and mobile sides. By evenly distributing surface pressure applied to the mold, the platens simultaneously eliminate center-lying burrs and short shots along the periphery, and enable molding at lower clamping forces than before.

■ Transmission of clamping force



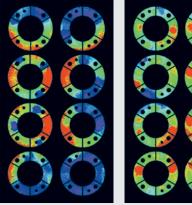
Conventional platen

The platen greatly flexes when applying force to the top and bottom ends.

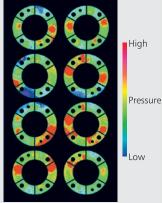
Double Center Press Platen

Because clamping force is evenly distributed, flash is prevented and gas is readily released even at low clamping force.

■ Comparison of surface pressure distribution

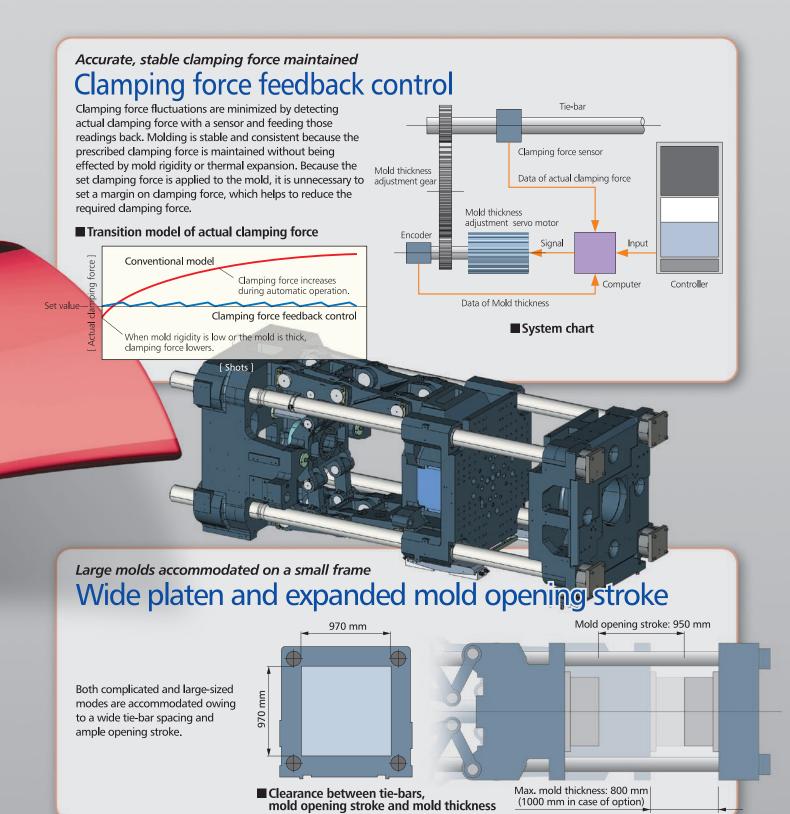


Similarly structured platens of other manufacturer



Double Center Press Platen

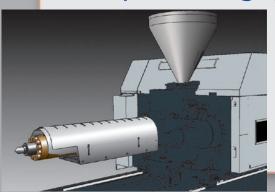
Surface pressure measurement of 8-cavity mold for container. Double Center Press Platen demonstrates excellent performance that similarly structured platens of other manufacturer cannot compare with.



Compact machine size enabled by the latest plasticizing technology

New plasticizing system

The CL7000 incorporates a new plasticizing system that employs the latest technology to eliminate stress and waste in plasticizing operations. Because of this new system, the full machine length has been greatly shortened.



■ Full length comparison against same class clamping force electric machines of other manufacture





High performance, safe and energy-saving

Numerous high-tech features can be operated comfortably and safely. Moreover, advances in energy-saving technology help to reduce energy costs and protect the global environment.

High performance nozzle touch system

High precision, high power nozzle touch and nozzle touch control Nozzle touch depressuriz

The CL7000 adopts a 2-axis arm supporting structure that is symmetrically positioned with nozzles. The highly accurate, high output nozzle touch mechanism does not tilt the stationary platen. And, control capabilities are provided to remotely set nozzle touch force according to the type of mold.

■ Comparison of nozzle touch systems

Conventional system

The high power nozzle touch causes a tilt of the stationary platen. High clamping force is needed to compensate the tilting and maintain accuracy.

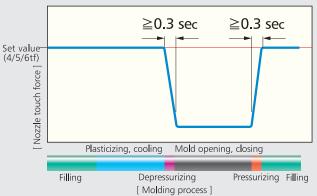


2-axis arm nozzle touch system of the CL2-7000

Despite the high power, mold clamping accuracy is maintained without tiling of the stationary platen.



■ Nozzle touch depressurizing and pressurizing



Nozzle touch depressurizing and pressurizing are very high response and short. By lowering the nozzle touch force during mold opening and closing, the load placed on the stationary mold is lessened, which effectively extends the service life of the mold. It is also effective towards minimizing cycle loss in molding processes that require nozzle retraction.

Applicable for heavy load molding of thick-walled products

Heavy duty motors for injection and plasticizing

Heavy duty injection motor for retaining pressure over longer periods of time

Because of the performance limitations of motors, existing electric machines could not retain high pressures for long periods of time. The CL²-7000 comes standard with a high torque injection motor and can retain 3x the pressure loads of existing electric machines.For example, molding is possible without problems under the below harsh conditions.

- Retains maximum injection pressure for 10 sec. (60-sec cycle)
- Retains 75% of the maximum injection pressure for 18 sec. (60-sec cycle)
- Retains 50% of the maximum injection pressure for 40 sec. (60-sec cycle) All figures above are theoretical.



Heavy duty plasticizing motor that can plasticize high viscosity resins over long periods of time

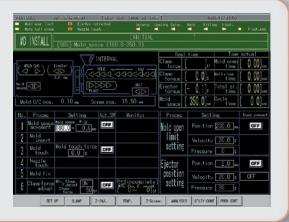
With earlier electric machines, motor speed had to be reduced and cycles extended to mold high viscosity engineering plastics resin because of insufficient motor capacity. The CL7000 comes standard with a heavy duty plasticizing motor that supports stable molding of high viscosity resins.

Improved setup performance

Mold thickness remote control

Mold thickness can be quickly and accurately set by one-touch operation from the controller display. This effectively improves setup performance by shorting mold changeover time.

■ Mold thickness control



Safe operation

Enhanced safety

In response to user demands, the CL7000 make a diversity of high-end features safer and easier to use. The machine is fully compliant with JIMS K-1001 (Safety Standard of Japan Society of Industrial Machinery Manufacturers).



■ Emergency stop button lockout

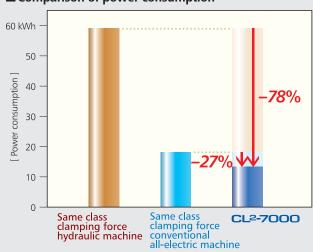


■ Heat cylinder with full cover

Far greater energy-saving performance than earlier all-electric machines

Low energy consuming, low running costs

■Comparison of power consumption



The energy reducing effect is obvious when compared against hydraulic machines of the same class. Furthermore, technological progress has greatly reduced power consumption compared to earlier all-electric machines. Users can take full advantage of the sophisticated features at low running costs.





Restart from the origin.

'Zero-molding

Complicated molding made simple.
Innovative molding processes only
Imagine no defects, loss or faults! Zero!



<u>'Zero</u>-molding system

Stable sound quality products via smooth filling

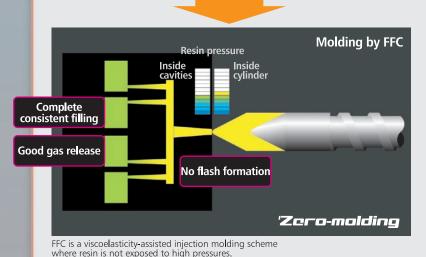
Overfilling occurs at inner cavities

Poor gas release

Flash formation

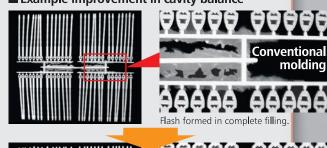
General programmed control

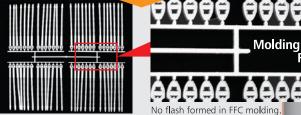
In conventional molding systems, resin is fully charged into mold cavities and consequently is apt to suffer excessive compression.



FFC (Flow Front Control) optimizes the flow front by restricting screw movement to match flash control. This enables molding at low internal pressures inside cavities, which, besides preventing flash, eliminates short shots by effectively releasing gases when filling.

■ Example improvement in cavity balance





With conventional molding, flash forms because of complete filling. FFC molding offers good cavity balance, therefore complete filling can be done without raising peak pressure, hence preventing flash from forming.

■ Example clamping force reduction by FFC

In tests conducted by Sumitomo, a table disc was molded with a clamping force of 70 kN by FFC molding, whereas 1100 kN were required in conventional molding.

Clamping force reduced by 90%!

Product: Table disc Resin: PC



Zero-molding by MCM (Clamping system) PAT. P.

Low pressure clamping without unnecessary force

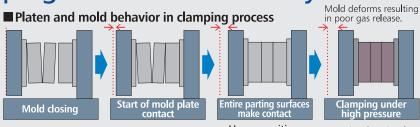
The CL2-7000 builds in detection capabilities for sensing the minimum force (home position) required to clamp the mold. Even with molds for the complicated profiles of heat shields, springs, sliding cores or angular pins, the clamping force required for actual molding can be set by measuring the home position, so molding is performed effectively without applying unnecessary force. Moreover, the difference in mold sitting before and after maintenance can be easily identified.

■ Mold comparison after 1000 shots

MCM (Minimum Clamping Molding) enables molding with the detected minimum required clamping force. Gas is greatly reduced to the following benefits.

- Burning and short shots are eliminated
- Mold maintenance is required less frequently

By reducing the mold clamping force, users can expect reductions in power consumption and shorter cycles, besides avoiding damage such as broken pins.



Home position



Excessive clamping force compresses the mold more than necessary.

Home position is measured using clamping force detection.

Conventional molding



Gas burning occurs in flow end.

Molding at low clamping force



Gas burning is avoided because gas is released from entire parting surfaces

Zero-molding by SPS (Setting system) PAT. P.

Simple operation without mistakes and oversights

■ Process up to mass-production start

Equipment checks

Conditions setting

and purging

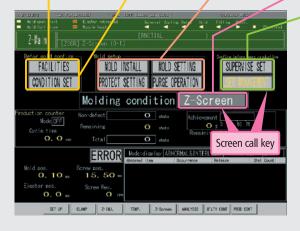
Mold preparations Mass-production setup

Monitoring and Control setting

Mass-production

Example of improved operability

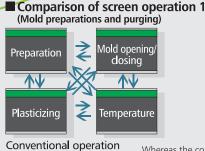
SPS reduces screen switching for mold preparations and purging by 68%.



SPS (Simple Process Setting) arranges settings by process from the operator's position.

Setting screens have been created according to process operations rather than the conventional setup of functions. A series of setting operations can be completed on a single screen.





(Screens arranged by function)

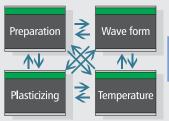
68% switching Screen Conventional operation SPS

Purging

Whereas the conventional screens that were arranged by function required frequent switching between screens, SPS reduces operations to a minimum by arranging setting parameters according to process

Protection Mold setting installation setting SPS (Screens arranged by process)

■ Comparison of screen operation 2 (Mass-production setup)



Conventional operation (Screens arranged by function)



Even the fine-adjustments used in mold changeover and parameter setting for production launches with new molds can be handled with this one Z-Screen.



Main specifications

Items		unit	CL2-7000		
■ Clamping unit					
Clamping system			Double toggle (5 points)		
Max. clampin	Max. clamping force		5390		
Clearance between tie-bars (L x H)		mm	970 x 970		
Platen size (L x H)		mm	1410 x 1390		
Daylight		mm	1750(^[5] 1850/ ^[6] 1950)		
Mold opening	Mold opening/closing stroke		950		
Mald man	Max.	mm	400		
Mold space	Min.	mm	800(<mark>[5]</mark> 900/ <mark>[6]</mark> 1000)		
Locating ring diameter		mm	ø 150		
Ejector type			Electric (21 points)		
Ejection force		kN	128		
Ejection stroke		mm	200		

■ Injection unit

		C2300		C3200	
Screw diameter		CL		CL	
Screw diameter	mm	63	76	76	84
Max. injection pressure [1][2]	MPa	215	148	186	153
Max. hold pressure [1][2]	MPa	215	148	186	153
Theoretical injection volume	cm ³	982	1429	1633	1995
Injection weight (GPPS)	g	943	1372	1568	1915
Plasticizing capacity (GPPS) [3] (Screw rotation speed)	kg/h	182	201	201	274
Injection rate	cm ³ /s	499	726	726	887
Screw stroke	mm	315		360	
Max. injection speed	mm/s	160		160	
Max. screw rotation speed	min ⁻¹	250	200	200	200
Number of temperature control zones		6		6	
Heater capacity	kW	25.6	29.9	29.9	34.2
Nozzle touch force	kN	58		58	
Displacing stroke (Ejection quantity)	mm	680 (100)		680 (100)	
Hopper capacity	L	100		100	

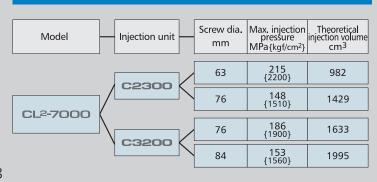
■ Machine dimensions and weight

Dimensions (L x W x H) [4]		mm	8440 x 2334 x 2573 (<mark>[5]</mark> 8540 x 2334 x 2573) (^[6] 8640 x 2334 x 2573)	8440 X 2334 X 2573 ([5]8540 X 2334 X 2573) ([6]8640 X 2334 X 2573)
Weight		t	35.7	36.7

- The max. injection pressure and hold pressure are calculated values,

- The max. Injection pressure and hold pressure are calculated values, which are the outputs of the machine, but not the resin pressures. The max. injection pressure and hold pressure are not pressures that can be generated continuously. Plasticizing capacity is the same level as when the SD screw is installed. The total length of the machine is the value measured up to the advance position of the injection unit with a smallest screw installed.
- Dimensions when the optional 100 mm mold thickness extension is selected. Dimensions when the optional 200 mm mold thickness extension is selected. The value in $\{\ \}$ is given for reference. The specifications may be subject to change for performance improvement without notice.

Selection of injection module

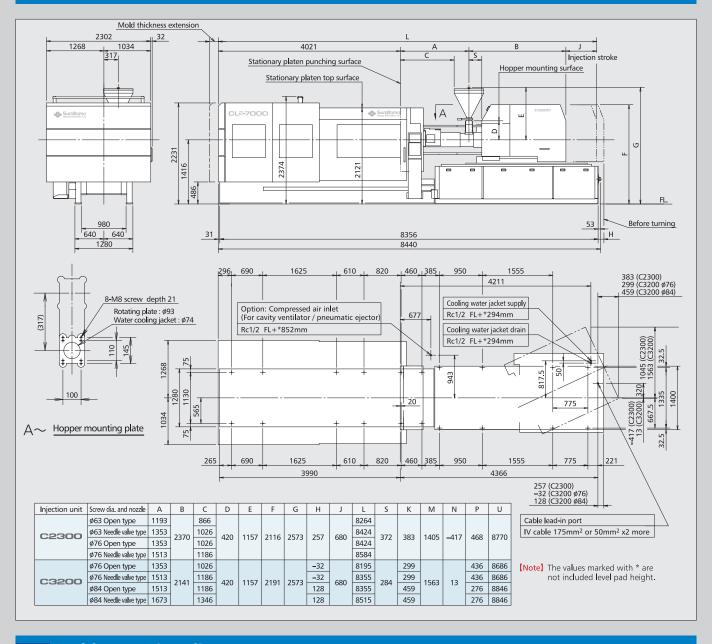


Screw assembly

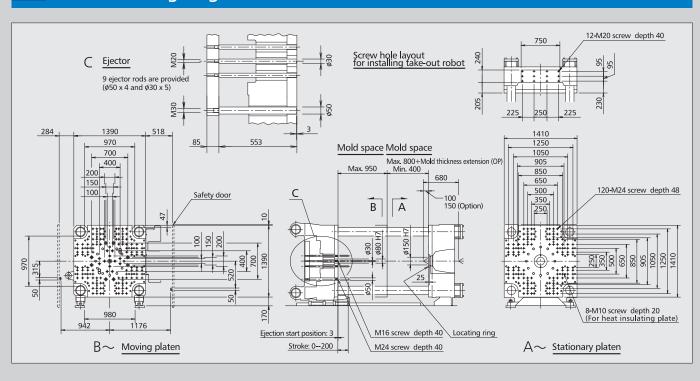
Specifications	Wear resistant (I)	Wear and corrosion resistant (II)
Screw	Wear and corrosion resistant (II)	Wear and corrosion resistant (II)
Barrel	Wear resistant (I)	Wear and corrosion resistant (II)
Screw tip	Wear and corrosion resistant (II) (No corotation)	Wear and corrosion resistant (II) (No corotation)
Resin	Resin not containing wear- prone additive / Resin of low wear-prone additive and no corrosive additive	Resin containing less than 30% wear-prone additive / Resin containing corrosive additive

[Note] Contact using resins that contain 30% or more wear-prone compounding ingredients or highly corrosive compounding ingredients.

Machine dimensions and Installation diagrams



Mold mounting diagram





'Zero-molding equipment

- 'Zero-molding Main screen: Simple process setting
- Zero-molding Main Screen: Product molding monitor (Product count, Process, Abnormal, Detect)
- Screen for confirm spec. and functions (STD., Option, Abnormal transaction, Peripheral device signal)
- Minimum clamping force detect
- Setup guidance: Mold installation setting screen
- Setup guidance: Mold condition setting screen 6
- Setup guidance: Mold protection setting screen
- Setup guidance: Multiple purge 8
- Setup guidance: Supervise and warning for resin remaining
- Setup guidance: Nozzle and heating cylinder heating-up mode (Step/Nozzle delay) 10
- Setup guidance: Nozzle, heating cylinder, water cooling jacket temp. profile graphic display 'Zero-molding: Molding condition setting screen– Z-Screen(Fill., HP, Plast., Time, Temp., Clamping force) 11
- 12
- 'Zero-molding: Flash Control 13
- 'Zero-molding: Short shot mode by Flash Control

- Decompression by reverse after plasticizing
- 'Zero-molding: Clamping force feedback 16
- Multiple clamping force control (Cross head position control) 17
- 18 Zero-molding: Molding condition guidance monitor (Peak clamping force, Pack Pres., Situation monitor) Detection monitor change (Detect, Detail, Process, Detect and real time) 19
- 20 Protection for molding condition
- Initial molding by auto change (Condition)
 Protection: Screw protection 21
- 22
- Wave form: Display by process (IJ,HP, Plast.,Mold open, Mold close, EJ) 23
- Wave form: Display by process (Preservation message) 24
- 25 Quality Control: Wave form distinction
- 26 Quality Control: Molding process monitor logging
- Production control: Operation status control (Operation time, Motor over load monitor)

Standard equipment

Plasticizing and injection unit

- Wear resistant (I) Screw assembly
- Zone1 High capacity heater
- Programming control of injection
- 4 Programming control hold pressure
- Screw pull back (After screw rotating/after holding pressure)
- Screw position digital indicator
- Step timer for hold pressure to 0.01 sec.
- 8 V-P switchover controller (Pressure, Position)
- Injection start delay timer
- Automatic purging program Interlock attaching (Select between nozzle touch and plasticizing unit withdraw limit) 10
- 11 Heater 6 division control
- 2-mode temperature control (Production/Standby) 12
- Cold screw startup protection (Interlock variable timer attaching) 13
- Injection unit retraction delay selector (With delay timer) 14
- Sprue break stroke remote setting (Detection of nozzle touch, Moving time) 15
- Screw speed digital indicator 16
- Flow indicator for water cooling jacket 17
- 18
- Protective purge shield (With limit switch)
 Swivel injection unit (with nozzle core adjuster) 19
- Remaining cooling timer indicator 20
- Plasticizing start delay timer 21
- Injection/Holding response 10-mode 22
- 23 Hold pressure speed setting
- Pull back delay control 24
- 25 Synchro-plast control
- 26 Temperature controller for nozzle
- 27 Energy-saving heating cylinder cover (2-layer structure)
- 28 High-precision, high-output nozzle touch system
- 29 Screw centering mechanism
- 30 Mold open operation during plasticizing (Needle nozzle drive control)
- 31 Multi-step filling pressure control
- Manual one-touch plasticizing

Control unit

- 12.1-inch TFT Color LCD screen
- Input setting device: Sheet-key and touch panel
- Internal memory of mold conditions (200 conditions)
- Operation guide for beginners
- Production guide for beginners
- Molding profiles display functions (Mold profiles storage, Cursor, Display, etc.) 6
- Screen hard copy
- 8 Take-out robot connection circuit
- Three languages screen changeover (Japanese/English/Chinese)
- 10 Operation guide for maintenance
- Automatic starting system (Heater warming, Heater start, Machine stop) 11
- Molding process indication 12
- 13 SSR control circuit for heater bands
- Input expressed in industrial units of velocity, position, pressure & screw revolution 14
- Signal output for machine condition (5 ch) 15
- Automatic startup function (Heater, External output signal) 16
- USB ports (Printer, Memory card) 17
- PC connection circuit (RS232C) 18
- Molding condition protection 19
- 20 Alarm sequence selection
- Initial rejection and short stop rejection

Clamping unit

- Programmed control of mold opening/closing speed (5-step/3-step)
- Low pressure mold clamp
- 4 Temporary stop of mold opening/closing
- Remote control of clamp force
- Remote control of mold space
- Ejector protrusion delay timer
- 8 Ejector remote control (Speed, Stroke, Pressure)
- Ejector 2-speed control
- Ejector protrusion holding device
- 11 Interlock for ejector (In manual operation, only the mold open limit is available)
- 12 Ejector protrusion during mold opening
- Ejector protrusion during mold closing 13
- Ejector plate return signal (Input signal for molding machine) Metal connector 14
- Mold close and mold opening signals (Spear control signal) No-voltage dry contact 15
- Valve gate drive circuit (Control circuit only) 16
- Standby mode for mold mounting (Low mold closing/opening speed) 17
- Safety doors with clear PMMA windows 18
- Emergency stop switch with lockout ring (Operation sides) 19
- Emergency stop switch (Non-operation sides)
 Toggle covers with clear PMMA windows sides 20
- 21 22
- Tapped hole for take-out robot installation 23 Grease central lubrication for clamping and injection
- 24 Interlocked safety doors (Electrically, Mechanically)
- 25 Mold opening/closing mode selection (Low vibration/High speed)
- 26 Moving platen support (Sliding type)
- 27 Double Center Press Platen
- 28 Ejected products sensor circuit
- 29 Multi-toggles
- Ejector with break mechanism

Monitor unit

- Actual operating values indicator
- Heater band burnout monitor
- Auxiliary facility monitor (1 ch)
- Alarm monitor (6 items)
- Automatic setting of monitor high/low value
- Abnormal history (Item and time)
- Statistics product quality control (Actual value control, Quality transition graph)
- Production control
- Automatic starting system (Heater, External output signal)
- 10 Cylinder heater temperature monitor (All zones)
- Self-diagnosis 11
- 12 Audible alarm
- 13 Shot counter
- Molding cycle time monitor (Attended/Unattended selection) 14
- 15 Low fluid level monitor
- Monitor setting fail protection 16

Miscellaneous

- Automatic centralized greasing device
- Mold cooling water block (2 lines) (Flow indicator and valve are optional)
- Standard tools (Nozzle ring spanner)
- 4 Standard spare parts (Touch-up paint, Fuses)
- File folder (Inside control panel)

Optional equipment

Plasticizing selection

- Wear and corrosion resistant (II) Screw assembly
- Needle valve nozzle (Pneumatic nozzle actuating cylinder)
- Extension nozzle (protrusion: 150mm)

Plasticizing and injection unit

- Resin temperature finder (Only for needle type nozzle)
- Standard type hopper
- V/P switchover by mold cavity pressure 3
- Needle valve nozzle drive circuit (Pneumatic cylinder)
- 5 Hopper swivel mounting plate
- 6 Purging saucer (Stainless steel)
- 7 Hopper stage
- Emergency stop switch on injection unit side (Operation and non-operation sides) 8

Control and monitor unit

- Leak circuit breaker (AC200V, 220V 3o/3W+E For Japan and Asia only)
- Mold temperature monitor 2 zones (Without thermocouple and type K/J)
- 3 Mold temperature monitor 4 zones (Without thermocouple and type K/J)
- Auxiliary facility monitor (Standard+2ch)
- 5 Analog data output connection circuit
- Mold temperature. controller (type K/J 2 zones) 3kW
- 7 Mold temperature. controller (type K/J 4 zones) 3kW
- 8 Mold temperature. controller (16 zones) 1kW For Hot runner system
- 9 Automatic starting system (Heater, Water supply, External output signal)
- Revolving alarm lamp (On the toggle support, non-operation side)
- 11 Revolving alarm lamp (On the toggle support, operation side)
- Revolving alarm lamp (On the injection unit, operation side) 12
- Multi-function 3-color LED alarm lamps (On the toggle support, non-operation side) 13
- Multi-function 3-color LED alarm lamps (On the toggle support, operation side) 14
- 15 Multi-function 3-color LED alarm lamps (On the injection unit, operation side)
- Closed circuit type cooling water piping 4 lines (Back side of the injection unit) 16
- Electric power supply sockets (Area 1--4, Type 1--4) 150A in Total 17
- Electric power supply socket for tools (1kWA, Operation side) 18
- Electric power supply socket for tools (1kWA, Non-operation side) 19
- Electric power supply socket for tools (1kWA, Both sides of Operation and Non-operation) 20
- Key-lock switch for molding setup 21
- 22 Motion07

Clamping unit

- Pneumatic ejector 1 line
- Pneumatic ejector 2 lines
- 3 Cavity ventilator
- Hydraulic core pull control circuit 1 line (Control circuit, Piping connection)
- Hydraulic core pull control circuit 2 lines (Control circuit, Piping connection)
- Hydraulic core pull control circuit 4 lines (Control circuit, Piping connection) 6
- Pneumatic core pull control circuit 1 line (Control circuit, Piping connection)
- Pneumatic core pull control circuit 2 lines (Control circuit, Piping connection) 8
- 9
- SPI take-out robot connection circuit Heat insulating plate (10mm, Rectangle type) 10
- 11 Mold clamp control unit
- 12 Slide core return signal (Input signal for molding machine) Metal connector
- 13 Auto grease lubrication on liner guide
- Pneumatic valve gate drive circuit 1 line (Control circuit, Pneumatic circuit) 14
- 15 Pneumatic valve gate drive circuit 2 lines (Control circuit, Pneumatic circuit)
- 16 Pneumatic valve gate drive circuit 8 lines (Control circuit, Pneumatic circuit)
- 17 Hydraulic valve gate drive circuit 1 line (Control circuit, Hydraulic circuit)
- 18 Hydraulic valve gate drive circuit 2 lines (Control circuit, Hydraulic circuit)
- 19
- Hydraulic valve gate drive circuit 4 lines (Control circuit, Hydraulic circuit)
- 20 Hydraulic drive circuit
- 21 Hydraulic drive package
- 22 Tie bar plating
- 23 Locating ring (Fixed with bolts) I.D. Ø100
- 24 Locating ring (Fixed with bolts) I.D. Ø120
- 25 Automatic opening/closing of safety door (Operation side)
- 26 Mold thickness extension 200mm
- 27 Mold thickness extension 100mm
- 28 Tie-bar grease adherence prevention
- Circuit for magnet clamping system
- 30 Full metallic toggle cover
- 31 Tie-bar protector
- 32 Closed circuit type cooling water piping 1 line, 8/12/16/20/28 divergence (Clamping side)
- Closed circuit type cooling water piping 2 lines, 16/20 divergence (Clamping side)

Spare parts and accessories

- Spare parts A (Mechanical parts : Lubricant parts)
- Spare parts A (Electrical parts : Thermocouple)
- Spare parts for export. (Encoder, Limit switch, Proximity sensors)
- Leveling pads (For one machine)
- 5 Anchor bolts (for one machine)
- 6 Locating ring (Fixed with bolts) I.D. Ø100
- Locating ring (Fixed with bolts) I.D. ø120
- 8 Tools A
- Ejector rods
- 10
- Grease gun 11 Lubricant cartridge for automatic greasing (700cc x 6pcs./set)
- 12 Lubricant cartridge for automatic greasing (400cc x 6pcs./set) 13 Handle for the swiveling plasticizing unit
- 14 Emergency stop button release prevention key
- Tools for exchange the screw tips



External views appearing in this catalog may differ from the actual equipment.

Global Network Czech / Slovakia Austria Ireland Cleveland, U.S.A. United Kingdom -Poland Korea Chicago, U.S.A. France Spain / Portugal Tokyo / Chiba -Hungary Suzhou Ningbo Anaheim, U.S.A. Germany Dongguan Shanghai Atlanta, U.S.A. Mexico (Gurgaon, India -Philippines Chennai, India-Thailand Vietnam Malavsia-Indonesia Singapore Brazil

Sumitomo Heavy Industries, Ltd.

MEXICO

BRA7II

RUSSIA

DONGGUAN

VIETNAM

Industrial Machinery Segment, Plastics Machinery Div.

• токуо Sumitomo Heavy Industries, Ltd. Industrial Machinery Segment, Plastics Machinery Div., Global Sales Dept.

Tel:+81-3-6737-2576

CHIBA Sumitomo Heavy Industries, Ltd. Chiba Works / Technology Center Tel:+81-43-420-1471 U.S.A. Sumitomo (SHI) Demag Plastics Machinery North America, Inc. Atlanta Office / Technology Center

Tel:+1-770-447-5430

Sumitomo (SHI) Demag Plastics Machinery North America, Inc., Cleveland Office

Tel:+1-440-876-8960

Sumitomo (SHI) Demag Plastics Machinery North America, Inc. Chicago Office / Facility and Tech Center

Tel:+1-847-947-9569

Tel:+7-495-937-97-64

Sumitomo (SHI) Demag Plastics Machinery North America, Inc. Anaheim Office / Training and Demo Center

SHI Plastics Machinery de Mexico, S.A. DE. C.V. Monterrey Office Tel:+52-81-8356-1714, -1720, -1726 SHI Plastics Machinery de Mexico, S.A. DE. C.V. Leon Office Tel:+52-477-179-1730

Sumitomo (SHI) Demag do Brasil Comercio de Máquinas para Plásticos Ltda. Tel:+55-11-4403-9286

GERMANY Sumitomo (SHI) Demag Plastics Machinery GmbH (Schwaig) Tel:+49-911-5061-0

> Sumitomo (SHI) Demag Plastics Machinery GmbH (Roßleben-Wiehe) Tel:+49-34672-97-0

 UNITED KINGDOM Sumitomo (SHI) Demag Plastics Machinery (UK) Ltd. Tel:+44-1296-739-500

Sumitomo (SHI) Demag Plastics Machinery (France) S.A.S. Tel:+33-1-60-33-20-10 FRANCE

 SPAIN / PORTUGAL Sumitomo (SHI) Demag Plastics Machinery España Tel:+34-96-111-63-11 Sumitomo (SHI) Demag Plastics Machinery Polska Sp. z o.o. Tel:+48-34-370-95-40 POLAND

Sumitomo (SHI) Demag Plastics Machinery GmbH (Branch Austria) Tel:+43-664-2311357 AUSTRIA

HUNGARY Sumitomo (SHI) Demag Plastics Machinery Hungária Kft Tel:+36-70-332-7869

ITALY Sumitomo (SHI) Demag Plastics Machinery (Italia) Tel:+39-011-95-95-057

JSC Sumitomo (SHI) Demag Plastics Machinery OCZECH / SLOVAKIA Sumitomo (SHI) Demag Plastics Machinery Česko spol. s.r.o. Tel:+420-296-226-210

Sumitomo (SHI) Demag Plastics Machinery Ltd. Tel:+353-86-8254731 IRELAND

SHANGHAI SHI Plastics Machinery (Shanghai) Ltd. Tel:+86-21-3462-7556 SHI Plastics Machinery (Shanghai) Ltd. Dalian Office DALIAN Tel:+86-411-8764-8052

NICHAIT SHI Plastics Machinery (Shanghai) Ltd. Tianiin Office Tel:+86-22-5871-5537

SUZHOU SHI Plastics Machinery (Shanghai) Ltd. Suzhou Office / Technical Center Tel:+86-512-6632-1760

NINGBO Tel:+86-574-2689-0162 Ningbo Sumiju Machinery, Ltd.

Tel:+86-574-2690-6600 Demag Plastics Machinery (Ningbo) Co., Ltd.

Dongguan SHI Plastics Machinery Ltd. / Technical Center Tel:+86-769-8533-6071

TAIWAN SHI Plastics Machinery (Taiwan) Inc. Tel:+886-2-2831-4500 SHI Plastics Machinery (Taiwan) Inc. Taichung Office Tel:+886-4-2358-7334

KORFA SHI Plastics Machinery (Korea) Co., Ltd. Tel:+82-2-757-8656

SHI Plastics Machinery (Korea) Co., Ltd. Southern Office

SINGAPORE SHI Plastics Machinery (S) Pte., Ltd. / Technology Center Tel:+65-6779-7544

THAILAND SHI Plastics Machinery (Thailand) Ltd. / Technology Center Tel:+66-2-747-4053, -4054, -4055, -4056

SHI Plastics Machinery (Thailand) Ltd. South Office

SHI Plastics Machinery (Malaysia) SDN BHD Tel:+60-3-7958-2079, -2081

MALAYSIA SHI Plastics Machinery (Malaysia) SDN BHD Penang Office Tel:+60-4-604-397-5725

SHI Plastics Machinery (Vietnam) LLC Tel:+84-24-3728-0105

Tel:+84-8-3514-6645 SHI Plastics Machinery (Vietnam) LLC Ho Chi Minh Branch

INDONESIA Tel:+62-21-829-3872, -3873 PT. SHI Plastics Machinery (Indonesia) Tel:+63-2-8845-0877, -8844-0632 PHILIPPINES SHI Plastics Machinery (Phils) Inc.

INDIA SHI Plastics Machinery (India) Private Ltd. Tel:+91-124-2217056. -64

> SHI Plastics Machinery (India) Private Ltd. Chennai Office Tel:+91-124-2217056. -64

:L2-700 All-electric injection

molding machine

The machines in this series have acquired JIS B 6711:2021 (equivalent to ISO 20430:2020) certification.

We support the enhancement of our customers' corporate value through providing high performance, high quality, and safe injection molding machines.

www.shi.co.jp/plastics/

