



Machine Specifications (Equipped with Energy-saving Servo Pump)

MODEL	ITEM	UNIT	CI-25E				CI-45E				CI-90E				CI-125E				CI-160E													
INJECTION UNIT	Screw Dia.	mm	16	19	22	16	19	22	19	22	26	30	19	22	26	30	28	32	36	40	28	32	36	40	32	36	40	45	32	36	40	45
	Inj. Volume	cm ³ /shot	15	21	28.5	15	21	28.5	27	36	50	67	27	36	50	67	77	101	127	157	77	101	127	157	116	148	182	231	116	148	182	231
	Inj. Capacity	g / shot (ps)	14	20	27	14	20	27	25	34	48	64	25	34	48	64	73	96	120	150	73	96	120	150	110	132	162	206	110	132	162	206
	Plasticizing Rate	kg / hr (ps)	6.5	10	14	6.5	10	14	11	15	22	34	11	15	22	34	22	28	38	52	22	28	38	52	32	43	59	80	32	43	59	80
	Inj. Press	kgf / cm ²	3076	2181	1627	3076	2181	1627	3870	2890	2070	1555	3870	2890	2070	1555	3124	2390	1890	1530	3124	2390	1890	1530	2875	2270	1840	1455	2875	2270	1840	1455
	Inj. Rate	cm ³ /sec	60	85	114	60	85	114	47	63	89	118	47	63	89	118	115	151	191	236	115	151	191	236	128	162	201	254	128	162	201	254
	Screw L/D Ratio		25	21	18	25	21	18	27	24	20	18	27	24	20	18	25	21	19	18	25	21	19	18	24	21	19	18	24	21	19	18
	Inj. Stroke	mm		75			75				95				95				125				125				145				145	
	Inj. Speed	mm/s		300			300				168				168				188				188				160				160	
	Screw Speed	rpm		0-330			0-330				0-390				0-390				0-316				0-316				0-327				0-327	
Nozzle Stroke	mm		210			210				240				240				280				280				300				300		
Nozzle Force	tonf (kn)		2.2			2.2				2.2				2.2				3.5				3.5				3.5				3.5		

MODEL	ITEM	UNIT	CI-160E				CI-200E				CI-250E				CI-300E																
INJECTION UNIT	Screw Dia.	mm	36	40	45	50	36	40	45	50	40	45	50	56	40	45	50	56	63	45	50	56	63	45	50	56	63	50	56	63	70
	Inj. Volume	cm ³ /shot	178	220	278	343	178	220	278	343	251	318	392	492	251	318	392	492	358	441	554	701	358	441	554	701	490	615	779	962	
	Inj. Capacity	g / shot (ps)	169	209	264	325	169	209	264	325	238	302	372	467	238	302	372	467	340	419	526	666	340	419	526	666	466	584	740	914	
	Plasticizing Rate	kg / hr (ps)	4.7	6.6	9.0	12.1	4.7	6.6	9.0	12.1	6.6	7.3	9.8	13.4	6.6	7.3	9.8	13.4	7.7	9.7	13.1	18.3	7.7	9.7	13.1	18.3	100	125	167	235	
	Inj. Press	kgf / cm ²	2837	2300	1816	1471	2837	2300	1816	1471	2626	2076	1681	1340	2626	2076	1681	1340	2685	2176	1734	1370	2685	2176	1734	1370	2464	1964	1552	1256	
	Inj. Rate	cm ³ /sec	131	162	205	253	131	162	205	253	175	222	274	344	175	222	274	344	219	270	340	430	219	270	340	430	300	376	477	588	
	Screw L/D Ratio		25	22	20	18	25	22	20	18	25	22	20	18	25	22	20	18	25	22	20	18	25	22	20	18	25	22	20	18	
	Inj. Stroke	mm		175			175				200				200				225				225				250				250
	Inj. Speed	mm/s		129			129				140				140				138				138				153				153
	Screw Speed	rpm		0-325			0-325				0-311				0-311				0-280				0-280				0-225				0-225
Nozzle Stroke	mm		320			320				330				330				380				380				430				430	
Nozzle Force	tonf (kn)		4.2			4.2				4.2				4.2				6.8				6.8				6.8				6.8	



High speed thin sheet molding assures outstanding thickness uniformity and low internal stress.

High plasticizing capability and excellent pressure retention.



Power Saving 70%

A New Generation Hydraulic Clamping Injection Molding Machine
A Perfect Combination of Power Saving, Low Noise and High Accuracy

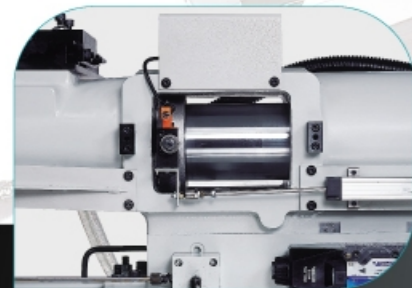
Environmental Protection!
Technological!
Valuable Application!



High-precision Hydraulic Clamping Injection Molding Machine

The New Concept of Power Saving Servo frequency inverted energy-saving pump

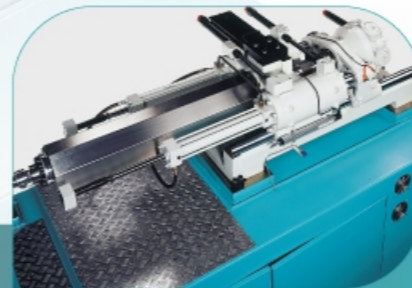
The new generation injection molding machine from CREATOR employs a Japan Daikin servo frequency inverted energy-saving pump. It's a perfect combination of hydraulic, mechanic and electric machinery that presents extraordinary performance in power saving, low noise and environmental protection. When it comes to gaining a competitive edge, CREATOR CI series is your No. 1 choice.



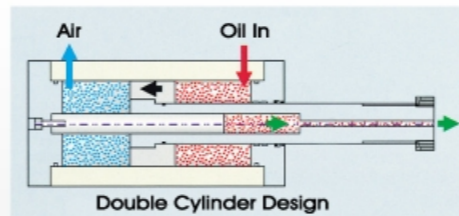
Modular Injection Unit
The modular injection unit design permits the use of various injection units to meet flexible production requirements.



Single Cylinder Injection Superior Plasticizing Capability
The single cylinder injection design features direct coupling between hydraulic cylinder and manifold. This outstanding design not only minimizes the possibility of oil leakage, but also reduces response delay time. These features guarantee product quality consistency, and are especially ideal for producing high precision 3C products.



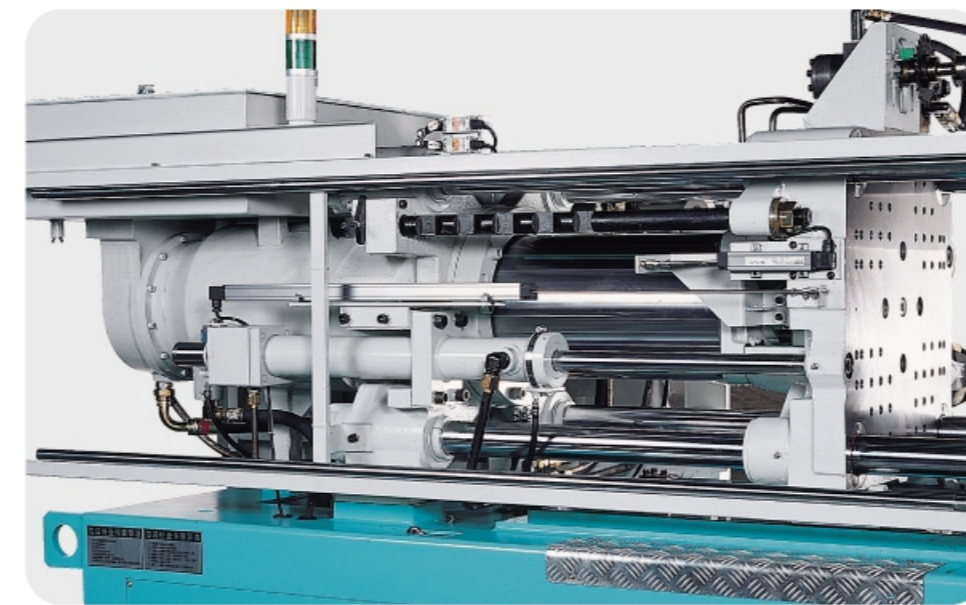
Double-cylinder Fast Injection
The double-cylinder injection mechanism features low resistance, providing fast and accurate injection motions. The hydraulic motor with high torque output exhibits stable and fast plasticizing capability.



Double Cylinder Design
When retracting, the sub-cylinder is located at the center of the piston rod that pushes the piston backward.

Hydraulic Clamping Unit

The hydraulic clamping structure provides extremely uniform force distribution on the mold. This results in longer life of the mold and easy control for precision molding.



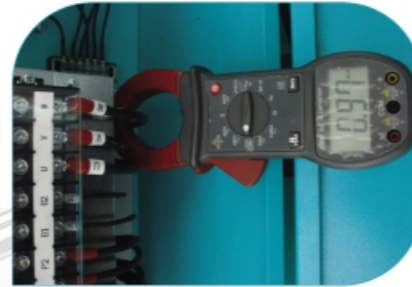
The servo motor employs an encoder and pressure sensor for fully closed-loop control of oil flow and pressure.



The large capacity machine is equipped with several sets of power saving servo pumps (Japan imported).



The servo motor control driver is combined with fully digitized parameter control enable acceleration response to achieve the class of PQ valve.



Under the ready condition, the servomotor consumes only about 1 Amp. current for great power saving.

Servo Frequency Inverted Pump Bring Yourself to a New Era of Power Saving!

Easy Adjustment
Fully digitalized setting enables the operator to change parameters according to desired requirement of performance.

Increased Product Consistency
Reduce product weight error, increase weight consistency and effectively lower material waste.

Extend Equipment Service Life
Minimum oil temperature growth. Longer service life of the equipment and hydraulic oil lowers maintenance costs.

Accurate Speed Control
By using the frequency inverter for controlling the motor speed, the oil flow of the hydraulic pump can be set as desired. It may replace the traditional proportional flow control valve for increased accuracy of speed control.

Accurate Pressure Control
The pressure is calculated by closed-loop feedback, which ensures accurate pressure at all times, even under variable hydraulic system conditions.

Power Saving Over 70% Low Noise
The pump speed output depends on the actual oil flow. The motor nearly does not run when in ready condition, exhibiting extraordinary power saving. Minimum oil temperature growth either does not require a cooler or only requires a low capacity cooler. Speed varies at any time. It is not necessary to set at the highest speed for running at all times, reducing noise to a minimum.

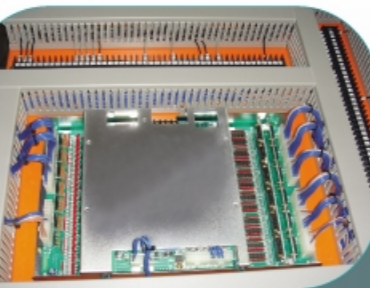
Japanese PLC control combined with LCD screen. Easy to operate. Accurate and clear molding parameters setting. High operational efficiency.



Control Features (Optional)

- › Instant monitoring display.
- › 5-stage injection. 3-stage pressure retention. 1-stage material filling before injection.
- › Forward/backward retracting. 3-stage material feeding.
- › Automatic material cleaning.
- › 4-stage mold clamping/unclamping, 2-stage mold ejecting. Mold eject modes include stop before ejecting, repetitive ejecting and vibration ejecting.
- › Injection compression molding.
- › 2-step injection unit moving forward.
- › Easy to install mold. Easy to adjust clamping pressure.
- › 2 sets of cores. 1 set of cores can be changed for threading. 1 set of special cores.
- › 4-step PID temperature control system can be expanded. Preheating, screw heating protection, temperature retention and product outfeed port temperature control.

- › Digitizing position control for injection mold clamping and mold ejecting.
- › Real time management for qualified products.
- › Temperature curve, injection accuracy curve and accuracy statistics curve.
- › 100 sets of injection molding records.
- › 100 sets alarm.
- › 100 sets of modification records.
- › Memory capacity of up to 60 sets of molding parameters.
- › Chinese/English display conversion.
- › Injection speed and pressure curve.
- › Data printing.
- › Immediate modification for PLC data.
- › Data saved in CF card.



› Japan STAR controller is a single board design, featuring interference-proof, minimum heat generation and aging-free properties.
› 1000 graduations of speed and pressure allows for settings from 0.1 to 100.0.

› The CR6000 controller is 10 times faster than a traditional PLC. More accurate injection end control. No mold bumping at low pressure.
› Allows for using a CF card for saving data.

