



SERVO-ELECTRIC INJECTION MOLDING MACHINE



series

MODEL • E550

• E850

• E1100

• E1400

• E1800

• E2800

• E3500

• E4500



The "E-series" had created excellent performance,
due to the best application of servo motor

- > High Speed
- > High Precision
- > High Stability
- > High Reliability
- > Energy Saving
- > Environmental Friendly



E1800/230N

SERVO-ELECTRIC INJECTION MOLDING MACHINE

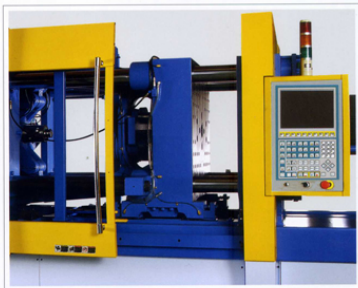
The new "E-series" is a concept revolution,
in the plastic injection industry.

It adopts the first class of servo motor and servo driver,
to achieve the machine with high speed, high torque,
high efficient and high precision injection molding.

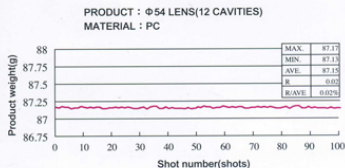
Humanized Operation	Swivelable control panel with 12.1 inch color LCD.
Increase Productivity	Big space between tie-bar suitable for big mold and thin product
Increase Quality	Adopting high speed servo control
High Precision	High rigid platen with fast response high speed injection
Molding Field Extended	Multiple injection unit selectable for various molding
Fast Response Control	Fast response and high speed control to achieve the best precision and stability injection performance

High rigid clamping unit offer the stable operation, and make sure the products quality.

1. "H type" platen design to get high rigid, and make sure the clamping force to the mold averagely.
2. Strong supporting structure for platen to make sure the platen parallel and mold precision lock-in.
3. Wider platen offer big space between tie-bar for bigger mold.

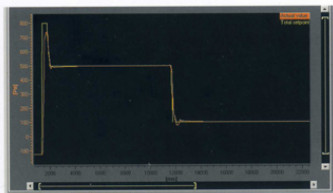


High speed & fast response injection function had promoted the precision and quality control.



Precision and Stability

Fast response injection control, high precision positioning and injection switching to holding, high precision plasticizing and back pressure control to achieve the best and stable products.



Precision Pressure Control

The pressure real value is approximate with setting value, it has precision response.

The precision pressure control is not only in the injection, holding pressure, but also back pressure of plasticizing.

STANDARD equipment

Injection Unit

1. 6 steps injection speed (Selective)
2. 5 steps holding pressure (Selective)
3. 3 steps screw speed and back pressure (Selective)
4. Swivel for injection unit
5. Barrel temperature pause changeover function
6. Pre-heating (Weekly)
7. Automatic purging circuit
8. Retraction select for injection unit
9. Screw suck-back device
10. Cold start-up prevention
11. Purge cover (with interlock)
12. Temperature control to material loading zone
13. Automatic greasing
14. 9 mode control for injection switch holding pressure
15. Hopper move-out device

Clamping Unit

1. Greaseless toggle bushings
2. Automatic greasing
3. High performance mold platen support
4. Safety device for mold closing (Mechanical+Electrical)
5. Clamping force auto setting
6. Mold thickness control device
7. Low pressure mold protecting device
8. 5 steps mold close speed (Selective)
9. 5 steps mold open speed (Selective)
10. 2 steps ejector advance speed (Selective)
11. 2 steps ejector retract speed (Selective)
12. Ejector function setting

Controller and Production Magament

1. Color LCD controller
2. 200 sets memory of molding conditions
3. Memory by "USB" saving
4. Diagnose input and output status
5. Execute input/output detecting
6. Multiple layer password setting
7. Protection key lock parameter
8. Circuit for product take-out robot
9. Language switching function (Chinese, English)
10. Date zero reset
11. Alarm instruction
12. Production quantity control
13. Packaging quantity control
14. Key pad detection

Monitor

1. Mold close speed and pressure curve display
2. Mold open speed and pressure curve display
3. Lower pressure mold protecting pressure curve display
4. Clamping belt broken detect
5. Injection speed and pressure curve display
6. Holding pressure curve display
7. Screw speed and pressure curve display
8. Ejector speed and pressure curve display
9. Ejector position curve display
10. Ejector belt broken detect
11. Temperature curve display
12. Auto detection and alarm device
13. History of alarm (1000 sets)
14. History of molding conditions value (100 sets)
15. Abnormal flashlight
16. Barrel temperature upper and lower alarm
17. Upper and lower limit for molding conditions
18. Grease lubrication abnormal alarm
19. Machine process monitor
20. Setting value resume (1000 record)
21. Servo motor abnormal alarm
22. Barrel heating system abnormal alarm

OPTION equipment

1. Open long nozzle
2. Bi-metal barrel for abrasion
3. Bi-metal screw for abrasion
4. Anti-corrosion and anti-scraping screw
5. High speed injection
6. Ultra speed injection
7. Daylight extension
8. T-slot platen
9. Heat isolated plate for platen
10. Core puller circuit (Hydraulic)
11. Photocell type product chute confirmation
12. Drilling of product take-out robot mounting holes
13. Other language select

TECHNICAL DATA

Model			E550									E850												
Item	Inj. model		25N			35N			50N			35N			50N			75N			120N			
Injection	Screw symbol		H	A	B	H	A	B	H	A	B	H	A	B	H	A	B	H	A	B	H	A	B	
	Screw diameter	mm	18	20	22	20	22	26	22	26	28	20	22	26	22	26	28	26	28	32	28	32	36	
	Theoretical shot volume	cm ³	20	25	30	28	34	47	38	53	61	28	34	47	38	53	61	66	77	100	92	120	152	
	Injection pressure(MAX.)	bar	2800	2267	1874	2800	2314	1657	2800	2004	1728	2800	2314	1657	2800	2004	1728	2800	2414	1848	2800	2143	1693	
	Holding pressure (MAX.)	bar	2520	2040	1690	2520	2080	1490	2520	1800	1550	2520	2080	1490	2520	1800	1550	2520	2170	1660	2520	1920	1520	
	Plasticizing capacity(PS)	kg/h	15	19	25	19	25	40	25	40	48	19	25	40	25	40	48	40	48	70	48	70	96	
	Injection rate	Standard(S)	cm ³ /S	89	110	133	110	133	186	133	186	215	110	133	186	133	186	215	186	215	281	184	241	305
		High speed(HS)		140	173	209	173	209	292	209	292	338	173	209	292	209	292	338	265	307	402	246	321	407
		Ultra speed(US)		203	251	304	251	304	424	304	424	492	251	304	424	304	424	492	424	492	643	—	—	—
	Injection speed	Standard(S)	mm/S	350			350			350			350			350			350			300		
High speed(HS)			550			550			550			550			550			500			400			
Ultra speed(US)			800			800			800			800			800			800			—			
Screw revolution	rpm	400			400			400			400			400			400			400				
Clamping	Mold clamping force	kn	550									850												
	Mold clamping stroke	mm	250									300												
	Mold thickness (min-max)	mm	160-370									160-410												
	Daylight opening	mm	620									710												
	Space between tie-bars	mm	360X310									410X360												
	Mold platen	mm	530X480									610X560												
	Ejector stroke	mm	70									80												
	Ejector point		3									5												
Other	Heater	kw	3.2			4			5			4			5			5.5			5.5			
	Machine dimensions	m	3.6X1.3X1.8			3.6X1.3X1.8			3.6X1.3X1.8			4.2X1.4X1.9			4.2X1.4X1.9			4.2X1.4X1.9			4.2X1.4X1.9			
	Machine weight	ton	3.7			3.8			4			4.7			4.8			5			5.2			

Model			E1100									E1400								
Item	Inj. model		75N			120N			160N			120N			160N			230N		
			H	A	B	H	A	B	H	A	B	H	A	B	H	A	B	H	A	B
Injection	Screw symbol																			
	Screw diameter	mm	26	28	32	28	32	36	32	36	40	28	32	36	32	36	40	36	40	45
	Theoretical shot volume	cm ³	66	77	100	92	120	152	128	162	201	92	120	152	128	162	201	183	226	286
	Injection pressure(MAX.)	bar	2800	2414	1848	2800	2143	1693	2531	2000	1620	2800	2143	1693	2531	2000	1620	2500	2025	1600
	Holding pressure (MAX.)	bar	2520	2170	1660	2520	1920	1520	2280	1800	1460	2520	1920	1520	2280	1800	1460	2220	1800	1420
	Plasticizing capacity(PS)	kg/h	40	48	70	48	70	96	52	72	96	48	70	96	52	72	96	72	96	122
	Injection rate	Standard(S)	186	215	281	184	241	305	201	254	314	184	241	305	201	254	314	254	314	398
		High speed(HS)	265	307	402	246	321	407	281	356	440	246	321	407	281	356	440	356	440	556
		Ultra speed(US)	424	492	643	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Injection speed	Standard(S)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		High speed(HS)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Ultra speed(US)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Clamping	Screw revolution	rpm	400	—	—	400	—	—	300	—	—	400	—	—	300	—	—	300	—	—
	Mold clamping force	kn	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Mold clamping stroke	mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Mold thickness (min-max)	mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Daylight opening	mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Space between tie-bars	mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Mold platen	mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Ejector stroke	mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	Ejector point		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Heater	kw	5.5	—	—	5.5	—	—	7.2	—	—	5.5	—	—	7.2	—	—	8	—	—
	Machine dimensions	m	4.6X1.45X2	—	—	4.6X1.45X2	—	—	4.6X1.45X2	—	—	5X1.53X2.1	—	—	5X1.53X2.1	—	—	5X1.53X2.1	—	—
	Machine weight	ton	5.9	—	—	6.1	—	—	6.3	—	—	7.6	—	—	7.8	—	—	8	—	—

Remarks:

- High speed (HS) and ultra speed (US) injection is for option.
- PC, HPVC, other engineering plastic, etc. low temperature setting and high speed molding may require a high torque depending on the grade or molding conditions. Please contact us with your plan.
- Due to continual improvements, specifications are subject to change without notice.

Model		E1800						E2800					
Item	Inj. model	160N		230N		320N		450N		620N		1000N	
Injection	Screw symbol	H	A	B	H	A	B	H	A	B	H	A	B
	Screw diameter	mm	32	36	40	36	40	45	50	55	50	55	60
	Theoretical shot volume	cm ³	128	162	201	183	226	286	351	451	546	617	735
	Injection pressure(MAX.)	bar	2531	2000	1620	2500	2025	1600	2531	2000	1620	2345	1900
	Holding pressure (MAX.)	bar	2280	1800	1460	2220	1800	1420	2280	1800	1460	2110	1710
	Plasticizing capacity(PS)	Kg/h	52	72	96	72	96	122	96	122	174	110	148
	Standard(S)	cm ³ /S	201	254	314	254	314	398	314	398	490	254	314
	High speed(HS)	cm ³ /S	281	356	440	356	440	556	440	556	687	398	490
	Ultra speed(US)	cm ³ /S	—	—	—	—	—	—	—	—	—	—	—
	Standard(S)	mm/S	250	—	—	250	—	—	200	—	—	160	—
Injection speed	High speed(HS)	mm/S	350	—	—	350	—	—	300	—	—	250	—
	Ultra speed(US)	mm/S	—	—	—	—	—	—	—	—	—	—	—
	Standard(S)	rpm	300	—	—	300	—	—	300	—	—	250	—
	High speed(HS)	rpm	—	—	—	—	—	—	—	—	—	—	—
Clamping	Screw revolution	rpm	300	—	—	300	—	—	300	—	—	250	—
	Mold clamping force	kn	—	—	—	1800	—	—	—	—	—	2800	—
	Mold clamping stroke	mm	—	—	—	450	—	—	—	—	—	600	—
	Mold thickness (min-max)	mm	—	—	—	200-550	—	—	—	—	—	250-650	—
	Daylight opening	mm	—	—	—	1000	—	—	—	—	—	1250	—
	Space between tie-bars	mm	—	—	—	530x530	—	—	—	—	—	660x610	—
	Mold platen	mm	—	—	—	800x800	—	—	—	—	—	970x920	—
	Ejector stroke	mm	—	—	—	130	—	—	—	—	—	160	—
Other	Ejector point	mm	—	—	—	9	—	—	—	—	—	13	—
	Heater	kw	7.2	—	—	8	—	—	9	—	—	12	—
	Machine dimensions	m	5.67X1.55X2.18	—	—	5.67X1.55X2.18	—	—	5.67X1.55X2.18	—	—	6.8X1.65X2.28	—
Machine weight	ton	8.8	—	—	9	—	—	—	9.5	—	—	13.5	—
	ton	—	—	—	—	—	—	—	—	—	—	14	—
	ton	—	—	—	—	—	—	—	—	—	—	15	—

Model		E3500						E4500					
Item	Inj. model	620N		1000N		1500N		1000N		1500N		2200N	
Injection	Screw symbol	H	A	B	H	A	B	H	A	B	H	A	B
	Screw diameter	mm	50	55	60	60	65	70	75	80	60	65	70
	Theoretical shot volume	cm ³	510	617	735	848	995	1154	1347	1546	1759	1943	2211
	Injection pressure(MAX.)	bar	2299	1900	1596	2230	1900	1638	2181	1900	1670	2230	1900
	Holding pressure (MAX.)	bar	2070	1710	1440	2007	1710	1474	1962	1710	1503	2007	1710
	Plasticizing capacity(PS)	Kg/h	148	180	210	210	275	320	280	320	370	210	275
	Standard(S)	cm ³ /S	314	380	452	452	530	616	616	707	804	452	530
	High speed(HS)	cm ³ /S	490	594	706	706	830	962	962	1104	1256	706	830
	Ultra speed(US)	cm ³ /S	—	—	—	—	—	—	—	—	—	—	—
	Standard(S)	mm/S	160	—	—	160	—	—	160	—	—	160	—
Injection speed	High speed(HS)	mm/S	250	—	—	250	—	—	250	—	—	250	—
	Ultra speed(US)	mm/S	—	—	—	—	—	—	—	—	—	—	—
	Standard(S)	rpm	250	—	—	250	—	—	250	—	—	200	—
	High speed(HS)	rpm	—	—	—	—	—	—	—	—	—	—	—
Clamping	Screw revolution	rpm	250	—	—	250	—	—	250	—	—	200	—
	Mold clamping force	kn	—	—	—	3500	—	—	—	—	—	4500	—
	Mold clamping stroke	mm	—	—	—	700	—	—	—	—	—	800	—
	Mold thickness (min-max)	mm	—	—	—	300-750	—	—	—	—	—	350-850	—
	Daylight opening	mm	—	—	—	1450	—	—	—	—	—	1650	—
	Space between tie-bars	mm	—	—	—	760x710	—	—	—	—	—	860x810	—
	Mold platen	mm	—	—	—	1110x1060	—	—	—	—	—	1270x1220	—
	Ejector stroke	mm	—	—	—	200	—	—	—	—	—	200	—
Other	Ejector point	mm	—	—	—	13	—	—	—	—	—	17	—
	Heater	kw	12	—	—	17	—	—	21	—	—	27	—
	Machine dimensions	m	7.5X1.8X2.3	—	—	7.8X1.8X2.3	—	—	8.1X1.8X2.3	—	—	8.4X1.95X2.3	—
Machine weight	ton	18	—	—	19	—	—	—	22	—	—	23	—
	ton	—	—	—	—	—	—	—	—	—	—	24	—

Combination of clamping unit with injection unit

Model		Injection Speed		mm/s
Clamping	Injection	Standard(S)	High(HS)	Ultra(US)
E550	25N	350	550	800
	35N	350	550	800
E850	50N	350	550	800
	75N	350	500	800
E1100	120N	300	400	
	160N	250	350	
E1400	230N	250	350	
	320N	200	300	
E1800	450N	160	250	
	620N	160	250	
E2800	1000N	160	250	
	1500N	160	250	
E3500	2200N	160	250	



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