

Hybrid Electric Injection Molding Machine Parameters



SPECIFICATION	EMD100			EMD140			EMD200			EMD230			
	A	B	C	A	B	C	A	B	C	A	B	C	
INJECTION UNIT													
Screw Diameter	mm	25	28	32	36	40	36	40	45	40	45	50	
Screw L/D ratio	L/D	24.6	22	19.2	24.8	22	20	24.4	22	20	24.75	22	19.8
Shot volume	Cm ³	54	68	88.5	120	152	188	203	251	318	251	318	392
Injection weight(PS)	g	49	62	80.5	109	139	171	185	228	289	228	289	357
Injection speed	mm/s	300			300			300			300		
Injection rate	Cm ³ /s	147	183	240	240	300	375	300	375	470	375	470	580
Injection pressure	Mpa	275	220	168	240	190	154	272	220	175	278	220	178
Injection stroke	mm	110			150			200			200		
Screw Speed	rpm	400			400			400			400		

CLAMPING UNIT

Clamp force	KN	1000			1400			2000			2300		
Open stroke	mm	330			400			435			485		
Space between tie bars (WxH)	mm	370x370			430x430			480x480			530x530		
Max mold thickness	mm	400			480			535			550		
Min mold thickness	mm	150			160			180			200		
Dia of mold location hole	mm	100			100			125			125		
Ejector Stroke	mm	100			130			145			142		
Ejector Force	KN	31			45			53			70		
Ejection Number	PC	5			5			5			9		

CLAMPING UNIT

Max pump pressure	Mpa	16			16			16			16		
Pump motor power	KW	12			18.5			18.5			23		
Total motor power	KW	41			52			67			76		
Heating power	KW	8.8			10			11			13		
Machine dimension (L*W*H*)	m	4.4x1.3x1.65			4.5x1.35x1.9			5.13x1.45x2.1			5.6x1.5x1.22		
Machine weight	ton	3.8			4.6			6			7		

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Regional Offices

For constant improvement upon reach, our company reserves the right to change the design parameters and configurations. No notice will be given for any change



HYBRID ELECTRIC INJECTION MOLDING MACHINE EMD SERIES

INJECTION SPEED 300 MM PER SECOND

Hybrid Electric Injection Molding Machine Applications

PRODUCT APPLICATION



THIN WALL



OPTICAL



MEDICAL



AUTO MOBILE



CONSUMER DURABLE

Mold locking mechanism, strong rigidity of the overall machine frame, improve product stability.

- Mold platen thicken, so relative deformation is small, the mold locating hole is small, can prolong the mold lifetime.
- The second stage sliding foot joint design of the movable platen can ensure that the movable platen copper sleeve is not worn.
- The frame adopts through beam structure, with strong overall rigidity and small deformation.
- Enlarged tie bar, clamping shaft and steel sleeve, reasonable lubrication design can ensure the effective service life of the machine.
- The internal pressure mold closing oil loop design, with high precision of mold opening position. Excellent performance, the main parameters are better than those of hydraulic servo motor series IMM.
- Short cycle time, fast injection response and strong power of the whole machine.
- Fast injection speed, the standard injection speed is between 0.1mm/s to 300mm/s, of which can realize low-speed but high-pressure injection, to meet more product requirements.
- Large mold opening stroke, applicable for larger molds, with high positioning accuracy.
- Small energy consumption, 10–20% energy saving compared with that of hydraulic servo motor series IMM.
- Low noise, can be used in various occasions.
- Closed loop back pressure control is adopted for melting, which has fast back pressure response and high precision of back pressure control.
- The accuracy of the computer is high, the temperature tolerance is controlled at 0.1 degree, the injection position tolerance is controlled at 0.01 mm, and the injection response is adjustable between 40Ms to 100 Ms.

Hybrid Electric Injection Molding Machine Features



Intelligent control module, increase machine perception.

- It is equipped with standard temperature monitoring and real-time temperature display, which can accurately control the temperature of material feeding port.
- Two sets of lubrication are provided as standard. Mold locking and electric injection are lubricated separately to ensure sufficient lubrication and reduce maintenance cost.
- It is equipped with standard servo motor temperature monitoring, and the cooling fan is opened when servo motor reaches to a specific temperature, which can reduce noise and power consumption.
- Standard hydraulic oil temperature monitoring, real-time temperature display, minor hydraulic oil temperature rise, can achieve zero cooling water use.
- The host computer can operate and monitor the auxiliary machine.
- Optional with Hongsu Cloud monitoring system, the machine dynamic parameters and production efficiency integration will be real-time monitored by mobile phone.
- Optional power meter monitoring system, real-time display of machine energy consumption, of which can calculate accurately the power cost of a single product. Multiple modular injection device, convenient to expand all kinds of special engineering, reduce machine delivery time.
- Electric injection device with precision linear guide can expand screw barrel of various lengths, equipped with standard precision and super durable screw, applicable to all kinds of engineering plastics.
- Servo electric charging device, precise control of charging pressure and speed, can effectively ensure precision molding.
- Double injection moving cylinder can stably control injection seat deformation.
- Mold clamping and injection movement at the same time, also for mold opening and charging and etc, it can solve all kinds of complex injection molding process.
- Extra space reserved for electric box.