

TECHNOVATION INTERNATIONAL
PRECISION MACHINERY MANUFACTURER

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www.technomeper.com



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Regional Offices

* Ahmedabad * Bengaluru * Pune

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

TECHNO-MEPEP™



F-Series

3rd Generation high-precision modular servo injection molding machine

F-SERIES / V-SERIES / MDS



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TECHNO-MEPEER

IMM

PLASTIC INJECTION MOLDING MACHINE

ABOUT US

TECHNOVATION INTERNATIONAL was Established in the year 2015 at Faridabad (Haryana, India), We are engaged in manufacturing & importing a wide range of Servo Plastic Injection Molding Machine, Quick Mould Change System (Hydraulic / Magnetic), Bi Metal Screw Barrel, Servo Systems, Servo Robots and all types of Auxillaries. Our mission is to provide world class product with efficient after sales service network.

The company was founded by Mr. Kamal Agarwal (B.tech., MBA Mktg.) and Mrs. Priyanka Agarwal (MBA HR) in 2015 keeping in mind to provide one stop solution for all plastic molders in the field of plastic processing machinery.

Mr. Kamal Agarwal has worked in various MNCs till march 2015 and well known face in plastic molding industry. He gathered appreciation for his work all around India and Abroad. His major experience is in machinery (CNC and Plastic Molding) and has established many brands from all over the world. In his leadership, TechnoMeper has become one of the top three brand of Plastic Injection Molding machine in Delhi NCR

Mrs. Priyanka Agarwal has worked in HR till 2015 and now is proprietor of Technovation International. She is also Heading HR and Admin Department in the Company.



Other Products

HYDRAULIC QUICK MOLD CHANGE SYSTEM - *TECHNO- HQMC*

- Mold changing time can be reduced by 70% as compared to traditional system.
- One person is enough to change the mold.
- Highly safe and secure for operators.
- Most economical solution for Molding Machines having T-slot Platens.



PICK AND PLACE SERVO ROBOTS-*TECO SMART* ROBOT

- Single and three axis Servo Robots.
- Sprue Pickers (Swing Arm Robots)
- End of Arm Tooling (EOAT)
- Online degating unit and Static Control

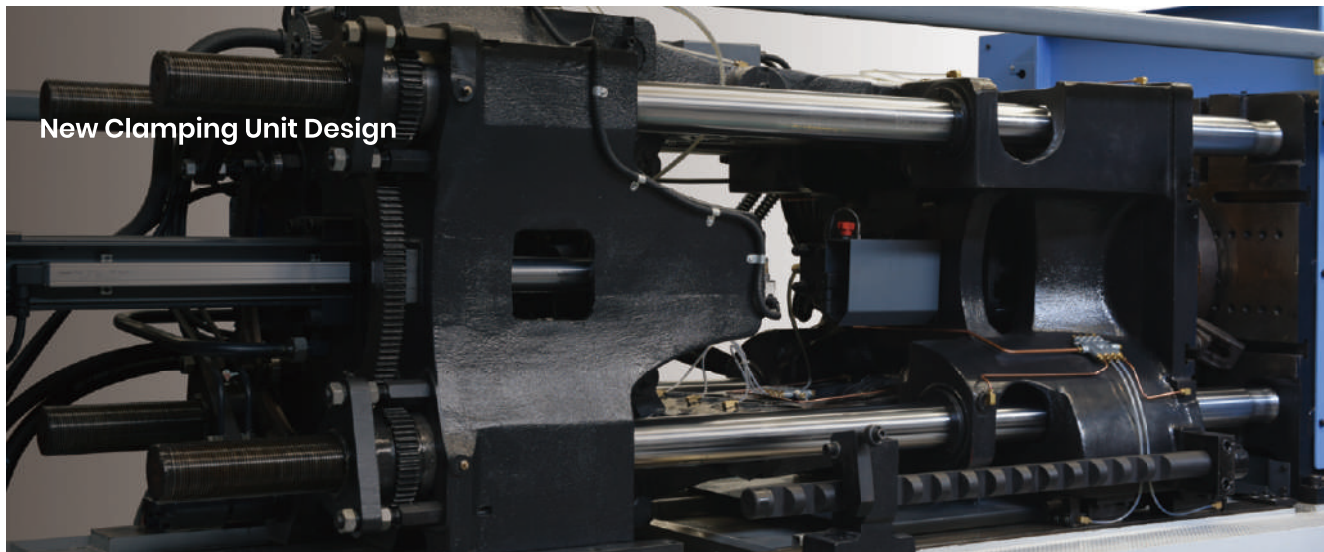


F-Series



3rd Generation *high-precision modular servo injection molding machine*

Product Advantage

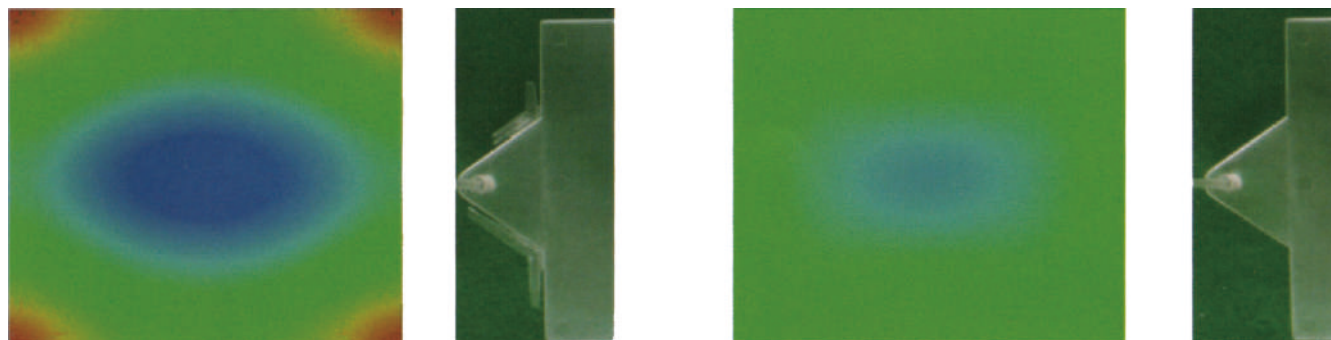


The machine has increased tie bar distances and uniform clamping force platen design. It enables the machine to run on extra bigger molds.

The machine is equipped with Euro design strengthened tie bars. It allows faster, more stable, more accurate clamping movement.

System pressure is completely tuning into 175Bar with MPS. The machine is capable of extreme working conditions and high precision requirement.

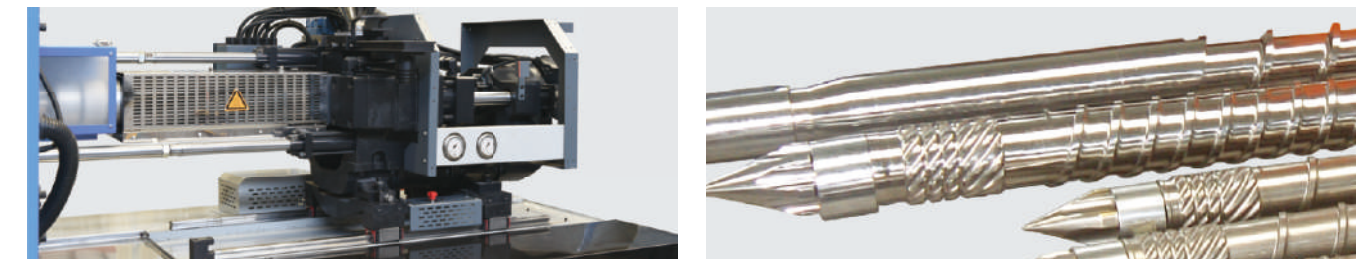
F III-Series



- STABILITY
- PROFESSIONAL
- EFFICIENCY
- PRECISION

Product Advantage

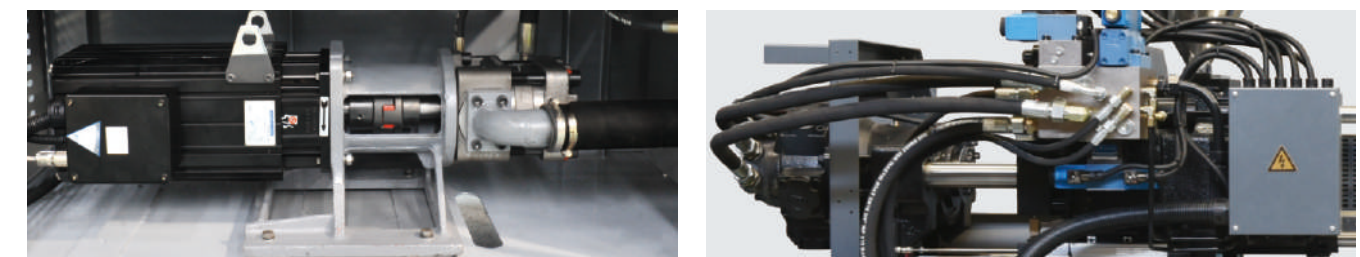
The machine has customized high precision linear injection system in modular design. It is capable to optimizing high injection speed for various of different materials.



Fast response and optimized control system enables the machine connecting to Industry 4.0 operation. It opens the possibility of high speed and high efficiency production management.



Extreme fast response servo hydraulic system increases the production and system efficiency. It saves power and brings more benefits to customers.



F_{III}-Series

SPECIFICATION TABLE

We reserve the right to make any product improvement or specifications change without prior notice.



SPECIFICATION ITEM	UNIT	F _{III} -170			F _{III} -250			F _{III} -300			F _{III} -400			F _{III} -500																		
		490			870			1140			1650			2530			3600			4430												
		A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	A(PC)	B	C	
INJECTION UNIT	Screw Diameter	mm	36	40	45	45	50	55	50	55	60	60	65	70	60	65	70	65	70	75	65	70	75	75	80	85	75	80	85	80	85	90
	Screw L/D Ratio	L/D	22	22	19.6	22	22	20	22	22	20.2	22	22	20.4	22	22	20.4	22	22	20.5	22	22	20.5	22	22	20.7	22	22	20.7	22	22	20.8
	Shot Volume(Theoretical)	cm ³	204	251	318	398	491	594	530	641	763	792	929	1078	792	929	1078	1261	1462	1679	1261	1462	1679	1811	2061	2327	1811	2061	2327	2287	2582	2895
	Injection Weight(PS)	g	197	229	289	386	447	541	514	584	695	768	846	981	768	846	981	1223	1331	1528	1223	1331	1528	1757	1875	2117	1757	1875	2117	2218	2350	2634
		OZ	7.0	8.1	10.2	13.6	15.8	19.1	18.1	20.6	24.5	27.1	29.8	34.6	27.1	29.8	34.6	43.1	46.9	53.9	43.1	46.9	53.9	62.0	66.2	74.7	62.0	66.2	74.7	78.3	82.9	92.9
	Injection Pressure	Mpa	230	186	147	219	177	146	215	177	149	201	171	147	201	171	147	200	173	150	200	173	150	198	174	154	198	174	154	191	169	151
	Injection Stroke	mm	200			250			270			280			280			380			380			410			410			455		
	Injection Speed	mm/sec	173			147			121			115			115			126			126			113			113			121		
	Max. Injection Rate	g/sec	171	198	250	227	263	318	230	262	311	315	347	403	315	347	403	406	441	507	406	441	507	484	517	584	484	517	584	590	625	700
	Max. Screw RPM	r/min	385			235			210			240			240			220			220			195			195			210		
CLAMPING UNIT	Clamp Tonnage	kN	1500			2500			3000			4000			4000			5000														
	Toggle Stroke	mm	420			570			660			780			870																	
	Max. mold Thickness	mm	920			1150			1340			1560			1750																	
	Mold Height(Min~Max)	mm	160 ~ 500			220 ~ 580			250 ~ 680			250 ~ 780			350 ~ 880																	
	Space Between Tie Bars	mm	470 X 420			580 X 580			680 X 680			780 X 780			860 X 860																	
	Ejector Tonnage	kN	41			58			77			88			111																	
	Ejector Stroke	mm	150			180			200			220			240																	
OTHERS	Max. Pump Pressure	Mpa	17.5			17.5			17.5			17.5			17.5																	
	Heater Power	kW	10.1		13.8		16		18.5		18.5		23.5		23.5		32		32		43											
	Pump Motor Power	kW	25		32		32		46		46		53		53		63		63		75											
	Oil Tank Cubage	L	260			330			530			670			750																	
	Machine Dimension(LxWxH)	m	5.2 X 13.5 X 2			6.3 X 1.55 X 2.2			7.7 X 1.65 X 2.4			8.2 X 1.85 X 2.5			9.5 X 2.1 X 2.7																	
	Machine Weight	Ton	5.2			8.5			13			18			24																	

TECHNO-MEPEP™

PET-Series

Dedicated servo injection molding machine



Energy saving: Servo control system and ceramic heating system

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TECHNOVATION INTERNATIONAL

PRECISION MACHINERY MANUFACTURER

PET

Product Advantage

MINGZHEN INJECTION MOLDING MACHINE

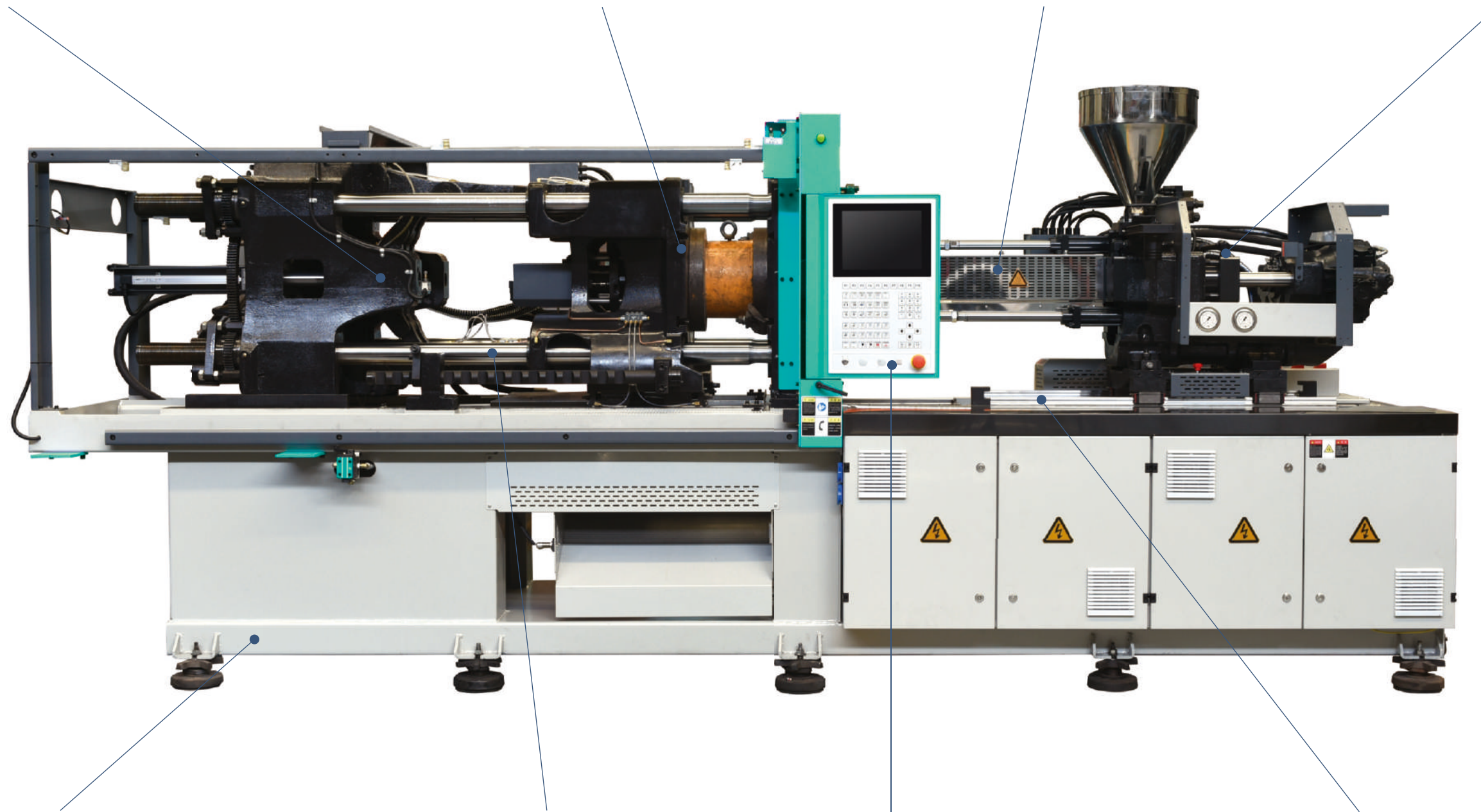


Five-support crankshaft structure provides high stability and high precision.

Big tie bar space and clamping stroke.

Closed-loop temperature control system ensures fast and accurate temperature control.

Independent servo motor melting unit



High rigidity base and integrated pipeline design enhance machine stability.

Special ejector mechanism

PET special control system for pet preform mold

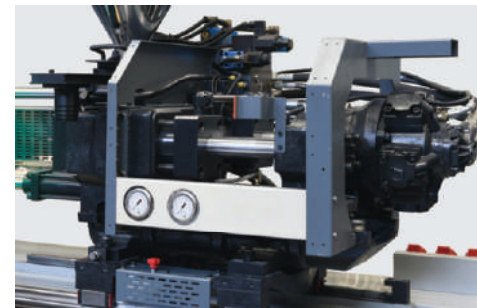
Bilinear guide rail structure makes the injection fast, stable and precise.

Product Advantage

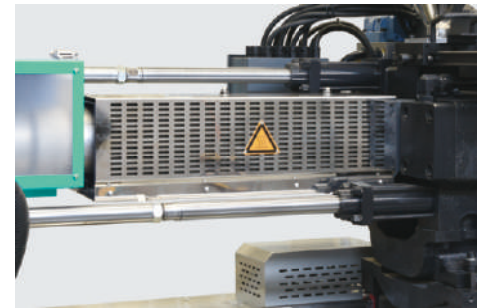
- Adopt European high precision PLC, cooperate with special program for PET preform mold, response speed faster.



- Adopt independent electric motor melt method, effectively shorten the molding cycle time more than 50%, save energy more than 30% and melt is more stable.
- Special ejector structure design, the eject out and back cycle time only 0.8 seconds.



- The barrel heating adopts the nanometer infrared heaters with national energy saving standard, which can save more than 40% electricity, heating time faster and make the machine life longer more than three years.

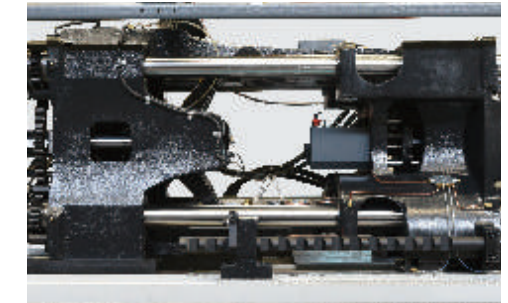


- Hydraulic series save energy with the best servo motor can save more than 20%, and faster response time.

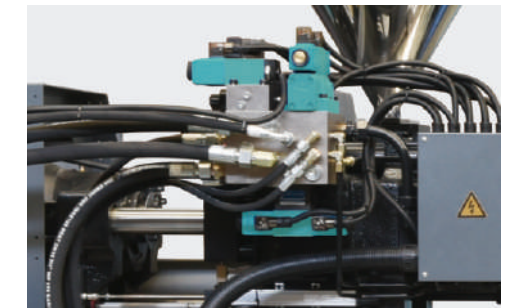


Product Advantage

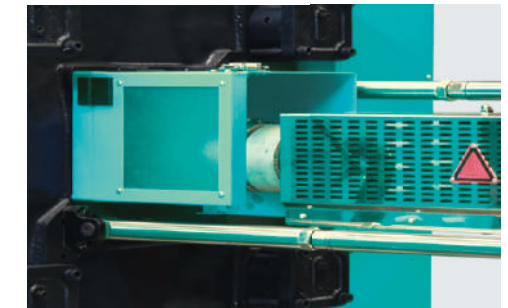
- New open and close mold structure, adopting new design concepts, optimized structure, and novel appearance.



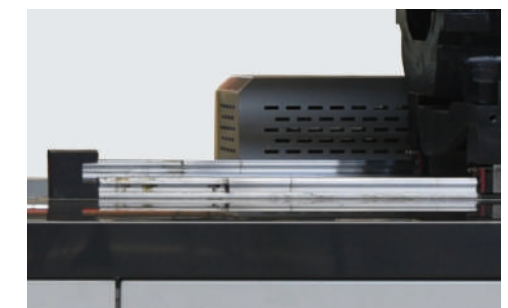
- Using a high-speed injection system, the sol and pressure retaining actions are performed simultaneously, effectively shortening the molding cycle.



- Leading technology for the pressure valve unit, so that the melting and pressure action simultaneously, effectively shorten the molding cycle time.



- The injection part adopts the bilinear guide rail structure with zero resistance, and the injection speed is faster and more stable.



PET

SPECIFICATION TABLE

We reserve the right to make any product improvement or specifications change without prior notice.



SPECIFICATION ITEM	UNIT	F _{III} -170	F _{III} -250	F _{III} -300	F _{III} -400	F _{III} -500
		PET	PET	PET	PET	PET
INJECTION UNIT						
Screw Diameter	mm	60	70	75	85	90
Screw L/D Ratio	L/D	24	24	24	24	24
Shot Volume(Theoretical)	cm ³	763	1078	1679	2327	2895
Injection Weight(PS)	g	824	1164	1813	2513	3126
	oz	29.1	41.1	64.0	88.6	110.3
Injection Pressure	Mpa	1495	1479	1507	1545	1516
Max. Injection Rate	g/sec	369	478	601	693	831
Max. Screw RPM	r/min	185	175	166	155	155
CLAMPING UNIT						
Clamp Tonnage	KN	1500	2500	3000	4000	5000
Toggle Stroke	mm	420	570	660	780	870
Min. mold Thickness	mm	920	1150	1340	1560	1750
Mold Height(Min~Max)	mm	160 ~ 500	220 ~ 580	250 ~ 680	250 ~ 780	350 ~ 880
Space Between Tie Bars	mm	470 X 420	580 X 580	680 X 680	780 X 780	860 X 860
Ejector Tonnage	Kn	41	58	77	88	111
Ejector Stroke	mm	150	180	200	220	240
OTHERS						
Max. Pump Pressure	Mpa	17.5	17.5	17.5	17.5	17.5
Heater Power	KW	15	20	25.5	35	47
Pump Motor Power	KW	32	46	53	63	75
Oil Tank Cubage	m	260	330	530	670	750
Machine Dimension(LxWxH)	L	5.2 X 13.5 X 2	6.3 X 1.55 X 2.2	7.7 X 1.65 X 2.4	8.2 X 1.85 X 2.5	9.5 X 2.1 X 2.7
Mahine Weight	ton	5.2	8.5	13	18	24

TM-MDS

MOBILE PHONE HIGH SPEED SPECIAL INJECTION MOLDING MACHINE

TECHNO-MEPEER™



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[TM-MDS SPECIFICATION TABLE]

TECHNO-MEPEER™

ITEM / SPECIFICATION

		TM131MDS			TM171MDS		
		A	B	C	A	B	C
INJECTION UNIT (Main equipment)							
SCREW DIAMETER	mm	29	32	35	29	32	36
SCREW L/D RATIO	L/D	21	21	22	21	21	21.4
SHOT VOLUME(THEORETICAL)	cm ³	99	121	144	99	121	153
INJECTION WEIGHT (PS)	g	91	111	133	91	111	140
INJECTION PRESSURE	Mpa	309	253	212	234	192	151
INJECTION RATE	g/sec	100	122	146	230	291	369
SCREW SPEED	rpm	260			260		
CLAMPING UNIT							
CLAMP TONNAGE	KN	1310			1710		
TOGGLE STROKE	mm	365			430		
MIN.MOLD HEIGHT	mm	150			150		
MAX.MOLD HEIGHT	mm	450			520		
SPACE BETWEEN TIE BARS	mm	420x385			470x470		
EJECTOR TONNAGE	KN	35			60		
EJECTOR STROKE	mm	130			150		
EJECTOR NUMBER	PC	5			5		
OTHERS							
MAX.PUMP PRESSURE	Mpa	17.5			17.5		
HEATER POWER	KW	7.1			7.1		
PUMP MOTOR POWER	KW	18			18+18		
OIL TANK CUBAGE	L	250			270		
MACHINE DIMENSION (LxWxH)	M	4.5x1.2x1.9			5.6X1.4X2		
MACHINE WEIGHT	T	3.5			5.2		

V Series

THIN WALL PACKAGE INJECTION MOLDING MACHINES



STANDARD OUTFIT

HYDRAULIC PART

Rexroth variable pump system, energy saving is more than 30%. Hydraulic system adopts famous plastic injection moulding hydraulic system designed by Germany company. The hydraulic valve are set adjacent to all the oil cylinders for rapid oil transfers. Hydraulic device can choose twice clamping system, which can meet second moulding product request. Injection part adopts dual nitrogen and cartridge valve's oil system design, which improve injections high speed performance. The pre-injection ration valves control device with easy operation and accurate control. The hydraulic system incorporates technology from reliable international manufacturers, which accurately control every machine movement. Injection mould close and open are controlled by servo valve is optional which improve movements' stable and accuracy.

CLAMPING PART

Moving platen owing bearing system have raised the efficiency of open/close mold and reduces energy consumption. 5 points vertical double toggle clamping system. T slot mold suitable for different mold setting. Automatic meticulous mold adjustment according to the clamping force. Cavity oil cylinder required for high speed movements, can alleviate the baging.

INJECTION PART

High quality linear guide couple ensure and accurate injection. It adopts the double oil circuit injection machinery to satisfy the injection speed requirements of high precision products. Optimized screw design to realize high speed injection and meet the requirement of thin-wall product molding. Specific screw and barrel designs are available for processing different material requirements.

CONTROL PART

Adopt imported computer which is special for injection machines. Its processed and controlled by CPU. This is to expediate response from the control system as well as to improve operational accuracy of the machine. Industrial quality components and circuit hardware design provide a stable and reliable control system. Ultra bright LEDs are provided for input and output point inspection, providing convenient indication of the machines operational and machine servicing.

V Series

Features

V SERIES TECHNICAL SPECIFICATION

THIN WALL PACKAGE INJECTION MOLDING MACHINES

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SPECIFICATION		250V7	320V7	400V7
ITEM				
INJECTION UNIT				
Screw Diameter	mm	45	50	55
Screw L/D Ratio	L/D	24.5	25	25
Shot Volume (Theoretical)	cm ³	318	432	594
Injection Weight (PS)	g	232	315	433
Injection Pressure	Mpa	147	150	148
Injection Speed	mm/s	299	330	431
Injection Rate	g/sec	347	474	747
CLAMPING UNIT				
Clamp Tonnage	KN	2500	3200	4000
Toggle Stroke	mm	520	600	550
Min. Mold Height	mm	200	260	300
Max. Mold Height	mm	650	700	810
Space Between Tie Bars	mm	560 x 560	630 x 630	680 x 680
Ejector Tonnage	KN	62	71	100
Ejector Stroke	mm	160	180	120
Ejector number	PC	5	13	7
OTHERS				
Max. Pump Pressure	Mpa	17.5	17.5	17.5
Heater Power	KW	18	20	22
Pump Motor Power	KW	22+22	30+37	55+55
Oil Tank Clubage	L	500	550	630
Machine Dimension (LxWxM)	M	5.9 x 1.6 x 2.1	6.5 x 1.8 x 2.2	6.9 x 1.9 x 2.2
Machine Weight	T	8.1	11	14.5

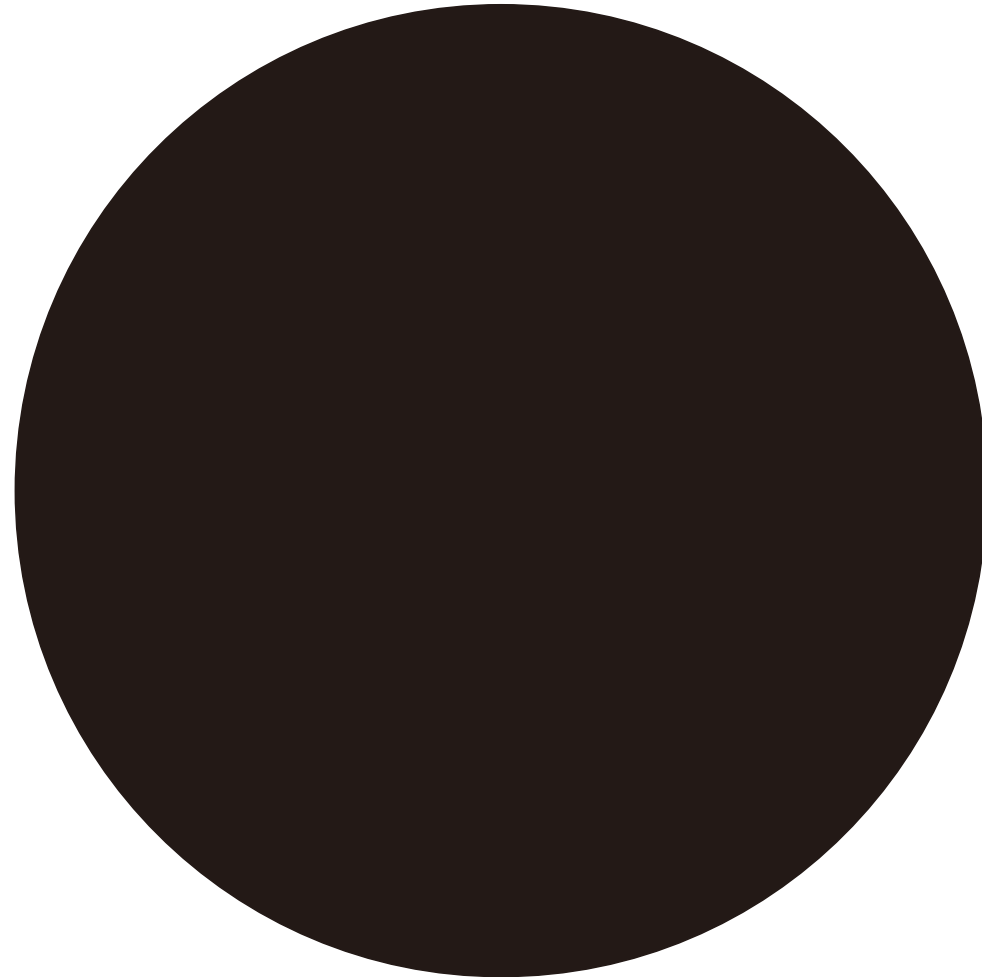
T-slot with Screw hole platen		<input type="checkbox"/>
5-point double toggle		<input type="checkbox"/>
Automatic central oil lubrication for toggle		<input type="checkbox"/>
Injection unit adopts linear guide		<input type="checkbox"/>
Injection unit adopts modular combinations		<input type="checkbox"/>
Double-cylinder balanced Injection system		<input type="checkbox"/>
Operation panel	8 inch <input type="checkbox"/> 12 inch <input type="checkbox"/>	
Language choice freedom (Chinese, English, Iran, etc)		<input type="checkbox"/>
Controller installation UPS		<input type="checkbox"/>
Robot interface	Euromap 67 <input type="checkbox"/> Euromap 12 <input type="checkbox"/>	
Clamp/Injection/Ejector stroke potentiometer control (linear transducer)		<input type="checkbox"/>
Injection unit move stroke potentiometer control (linear transducer)		<input type="checkbox"/>
hydraulic core-pullers on moving platen	1 set <input type="checkbox"/> 2 sets <input type="checkbox"/>	
Additional connections for hydraulic core-puller on fixed platen	1 set <input type="checkbox"/> 2 sets <input type="checkbox"/>	
Integrated oil cleaning unit for microfine bypass filtration		<input type="checkbox"/>
2 pneumatic valve		<input type="checkbox"/>
Automatic mould height adjustment		<input type="checkbox"/>
Mechanical, hydraulic and electric safety device		<input type="checkbox"/>
Quick-insert mould coolingwater	Fixed playen 4 sets <input type="checkbox"/> Move playen 4 sets <input type="checkbox"/>	
Automatic alarm on deviation oil temperture and oil-temperture preheating device		<input type="checkbox"/>
Proportional back pressure device		<input type="checkbox"/>
Automatic mould height adjustment		<input type="checkbox"/>
Ejector forward sfter mould open		<input type="checkbox"/>
Automatic purging function		<input type="checkbox"/>

Plast India



Few of our Prestigious Clients






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F-Series

3rd Generation *high-precision modular servo injection molding machine*

F-SERIES / V-SERIES / MDS



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