

OUR BRANDS

DAIKI-EMD

HYBRID ELECTRIC INJECTION MOLDING MACHINE
EMD SERIES



JWM®

PLASTIC INJECTION
BLOW MOLDING MACHINE



TECO SMART
ROBOT

PICK AND PLACE
SERVO ROBOTS



TECHNO- HQMC

HYDRAULIC QUICK MOLD
CHANGE SYSTEM



WORKS : PLOT NO 734, SECTOR 69, IMT FARIDABAD, HARYANA
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E-mail : kamal.agarwal@technovation.co.in
GST : 06AALCT0252H1ZG. CIN : U28299HR2024PLC121928

Sales Partner :

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-MEPER™



SMD-Series MAKE IN INDIA

Dynamaster Servo Energy-Saving

High Precision Plastic Injection molding machine

TECHNOVATION
International Machines Limited

PRECISION MACHINERY MANUFACTURER

www.technovation.co.in | www.technomeper.com

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 AUXILIARIES. 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 MACHINE.

IN YEAR 2025, TECHNOVATION INTERNATIONAL MERGED INTO TECHNOVATION INTERNATIONAL MACHINES LIMITED (TIML) AND THEREAFTER TIML TOOK OVER ALL BUSINESS ACTIVITIES AND BRANDS OF GROUP TECHNOVATION.

WE ARE FASTEST GROWING COMPANY IN NORTH INDIA AND LARGEST COMPANY IN FARIDABAD IN THE FIELD OF PLASTIC PROCESSING MACHINERIES.

OUR MACHINES EQUIPPED WITH AUTOMATIC ROBOTIC ARMS GIVE US A CUTTING EDGE ADVANTAGE TO COMPETE WITH OVERSEAS COMPETITION

TIML USP IS SUCH THAT IT DESIGNS CUSTOMISED PRODUCTS TO FIT INDIAN CONDITIONS AND CONDITIONS OF POWER FLUCTUATIONS. TIML USES HIGH QUALITY RAW MATERIAL, GIVING OUTPUT OF MORE PRODUCTION IN LESS EXPENSE, ALSO GIFTING THE PRODUCTS WITH HIGH FUNCTIONALITY AND A LONG LIFE SPAN. THE MACHINES ARE FUTURISTIC DESIGNS KEEPING IN MIND OF ROBOTIC AUTOMATIONS IN ORDER TO INCREASE PRODUCTIVITY, ARE THE GREAT BENEFITS TO MSME COMPANIES WHO RELY ON MARKET JOB WORK.. THE COMPANY GIVES MUCH EMPHASIS TO CUSTOMER FEEDBACKS IN ORDER TO WORK ON WEAKNESSES AND IMPROVE ON THE PRODUCTS. IT DEPLOYS FAIR BUSINESS POLICIES.



FROM THE DIRECTOR DESK

OUR VISION

MANUFACTURE 1,000 MACHINES ANNUALLY
EMPLOY MORE THAN 500 SKILLED PROFESSIONALS
ACHIEVE AN ANNUAL TURNOVER OF 300 CRORE

OUR MISSION

UTILISE THE LATEST AI TECHNOLOGIES TO ENHANCE
MACHINE EFFICIENCY AND PERFORMANCE.
INTEGRATE ADVANCED ROBOTIC ARMS TO ENSURE
HUMAN SAFETY AND MAXIMIZE PRODUCTIVITY IN OUR
MACHINES.

OUR BELIEVE

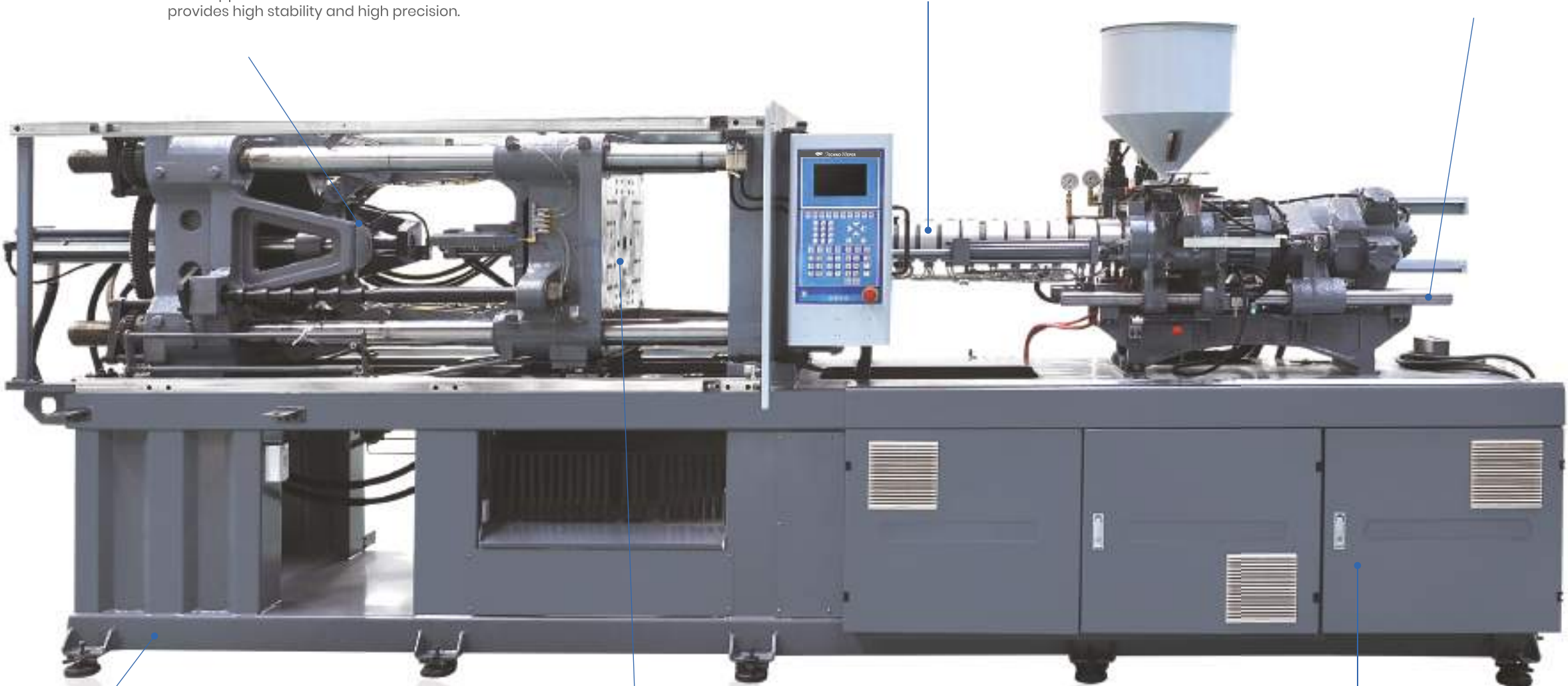
WE STRONGLY BELIEVES THAT "INDIA WILL BE THE
LEADING HUB FOR TECHNOLOGICAL INNOVATION AND
ECONOMIC DEVELOPMENT OVER THE NEXT DECADE."
THUS IT IS A GREAT TIME TO PROSPER. RECEIVED
AWARDS FROM ABP NEWS MAKE IN INDIA CONCLAVE,
DAINIK JAGRAN FOR BEST MSME, APPRECIATION FROM
RAJASTHAN PLASTIC MOULDING ASSOCIATION, ALL
INDIA PLASTIC MOULDING ASSOCIATION, ETC.



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

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

Two pillar guider design makes the injection fast, stable and precise.



High rigidity base and integrated pipeline design enhance machine stability.

Big tie bar space and clamping stroke.

Embedded electric-box design saves precious space.



M-Series

Servo Energy-Saving High Precision Plastic Injection molding machine

TM-MD

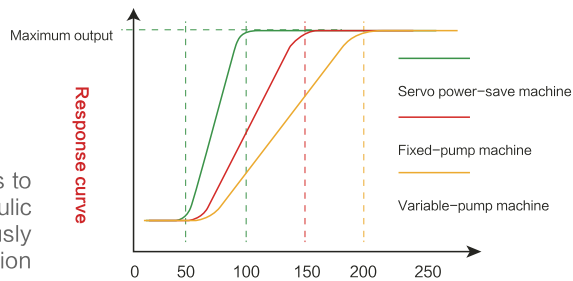
Servo energy-saving

SERVO INJECTION MOLDING MACHINE

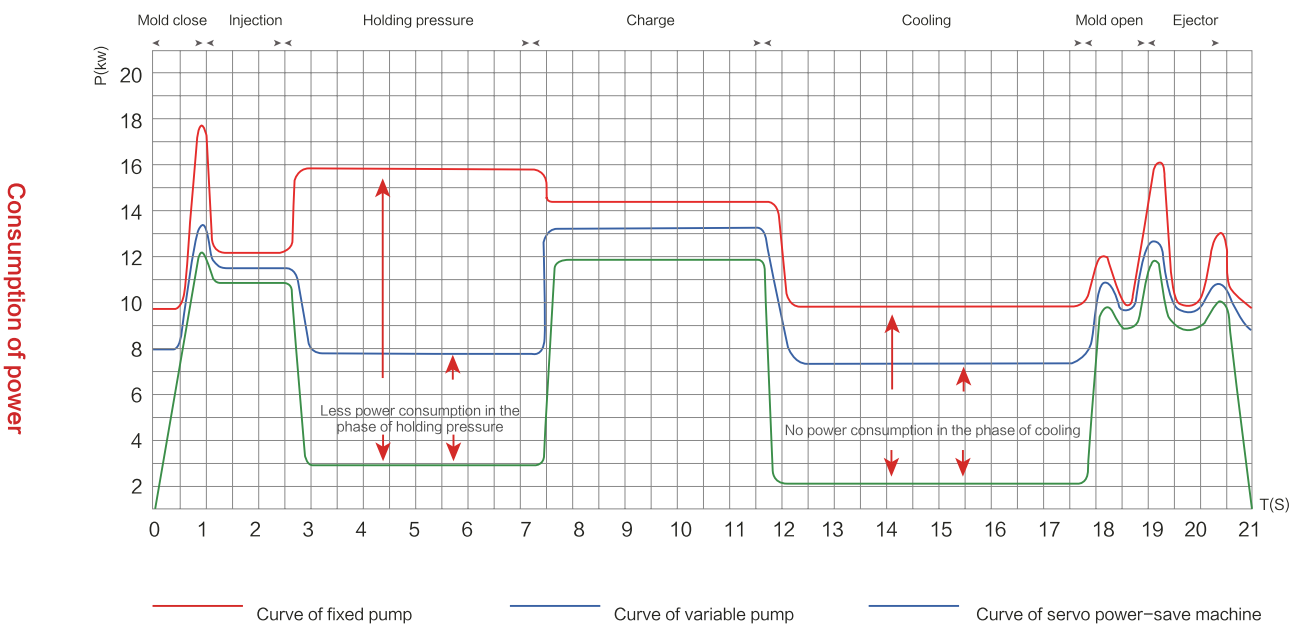


Quick response of servo motor

It costs only 0.05s for servo energy saving injection molding machines to achieve the maximum output, in comparison with conventional hydraulic injection molding machines, their response speed have been obviously quickened and cycle time effectively shortened, improving production efficiency.



Ultimate energy efficiency of servo power-save injection molding machines



TM-MD

Machine features



1

High energy saving

In an ideal working state, compared with conventional injection molding machines, their energy saving can reach 20%-80%.

2

Better molding stability

Compared with conventional injection molding machines, repeatability is greatly improved due to servo motor close-loop control.

3

Quick response

Sensitive servo motor, the response time only 0.05 second.

4

Quiet & low noise

The machine runs with low noise, and will be much quieter in a low speed.

5

Reliable holding pressure

Comparing with all electric injection molding machine, the time for pressure holding will be much longer and steady.

6

Oil temperature rise slowly

Servo motor proportionally deliver hydraulic oil base on our needs, it's can prevent unnecessary heat being generated, even in some cases does not require cooling.

7

MZ-MD excellent characteristics inheritance

Outstanding machine stability, being safety and dependability, strong mechanical parts, complete functional human-oriented operation system and long service life.

[SERVO INJECTION MOLDING MACHINES]
TECHNO-MEPEP

Product advantage

Techno-Meper Servo Injection Molding Machines.

Five-support
crankshaft structure
provides high stability
and high precision
Five point Toggle
Design

High rigid base and
integrated pipeline design
to enhance machine stability

It adopts imported plastic injection computer, with
large screen high definition crystal display and
human-computer interface in both Chinese and
English. Through CPU independent control and
treatment, it has raised the running speed of the
control system and alarming of ultra-high oil
temperature, this improving the operational
efficiency

Clamping, ejection,
injection with imported
electronic scale control,
more accurate.

Servo pump pressure controller
is specially optimized for the
work characteristics of injection
molding machine, which is used
for rapidly and accurately follly the
action curve of system pressure
direvitive. Meanwhile, the digitalized
pressure controller integrated to
actuator can optimize the controller
properties.

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

Two pillar guider design
makes the injection fast,
stable and precise

Electrical
CHNT China
FE Japan
Schneider France

tec sis GERMANY

autofast ITALY

GEFRAN
BEYOND TECHNOLOGY

TECHNO-MEPEP
TAIWAN

[SERVO INJECTION MOLDING MACHINES]
TECHNO-MEPEP

Product advantage

Techno-Meper Servo Injection Molding Machines.

It adopts the imported to
quality hydraulic components
and the cart ridge valve

USA
Eaton VICKERS
HNC Taiwan

Most Advanced Servo motor with
Low inertia, wide power range,
high speed and compact
structure can guarantee the high
dynamic requirements of system

INOVANCE

Screw & barrel

Travel switch
OMRON Japan

Big tie-bar space and
clamping stroke.

Sealing
YATO Japan

hydraulic
tubing
Gefran Germany

It is specially designed for servo system,
which adjust seal clearance
compensation and can maintain high
efficiency ever under the conditions of
low speed rotation and low viscosity oil.

Japan
SUMITOMO

With double hydraulic
core pulling device

USA
VICKERS

The machanical, hydraulic
and electrical protections have
ensured the human saftey.

Taiwan

SERVO ENERGY SAVING PLASTIC INJECTION MACHINES

CONTROL PART

It adopts imported plastic injection computer, with large screen high definition crystal display and human-computer interface in both Chinese and English, through CPU independent control and treatment, it has raised the running speed of the control system and alarming of ultra-high oil temperature, thus improving the operating speed of the machine.



INJECTION PART

The injection cylinder is parallel or balance to both sides of the barrel, so as to ensure the non-deviation of the nozzle, good sealing and non-leakage of rubber. It is equipped with double guide pillar supporting system, which can inject under multipressure and at various speeds. It also uses one stop hydraulic motor pre-injection device



HYDRAULIC PART

It adopts the imported top quality hydraulic components and the car ridge valve.



MOLD ADJUSTMENT PART

Oil motor drives the adjustment of gear mold, with good synchronization. The die can be adjusted automatically in accordance with the set pressure, which is both convenient and reliable.



FIVE POINT TOGGLE SYSTEM

Five-support crankshaft structure. The mold and the supports all use the portal structure, with good rigidity and high precision. Adopting the computer optimized design, the mold employs definite analysis less system. With double core pulling device, it boasts super sensitive low pressure protection functions. The mechanical, hydraulic and electrical protections have ensured the human safety. The dismountable fill-out hopper can be installed conveniently and automatically. The moveable platen is running in roll, with little friction and balanced and dependable moving.



SERVO DRIVE

Servo pump pressure controller is specially optimized for the work characteristics of injection molding machine, which is used for rapidly and accurately follow the action curve of the system pressure controller integrated to actuator can optimize the controller properties.



SERVO MOTOR

Servo motor with low inertia, wide power range, high speed and compact structure can guarantee the high dynamic requirements of the system.

INTERNAL GEAR PUMP

It is specially designed for servo system, which adopts seal clearance compensation and can maintain high efficiency even under the conditions of low speed rotation and low viscosity oil.



ELECTICAL CABINET PART

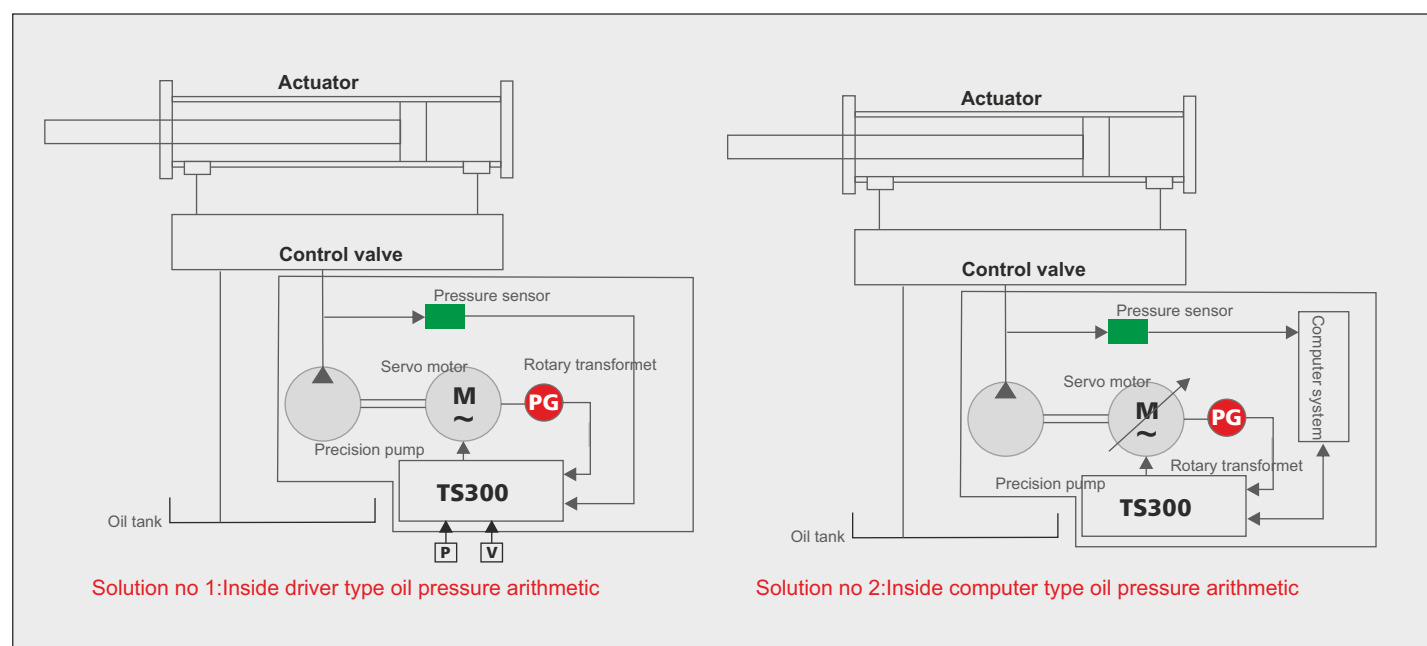
Systematic/Ergonomic design and placing of each electric component/wire improves overall functionality and performance. Bigger fans ensure right ventilation which is must for smooth functioning. In built UPS (for PLC) and Energy meter are standard in our panels It uses closed-loop temperature control system to ensure the accuracy and the reliability of the barrel temperature. It is also equipped with the functions of cold-proof start, alarming and parameter memory for the modeling, with password protection. The injection and switch are controlled by imported location ruler.



TM-MD

SERVO ENERGY SAVING PLASTIC INJECTION MACHINES

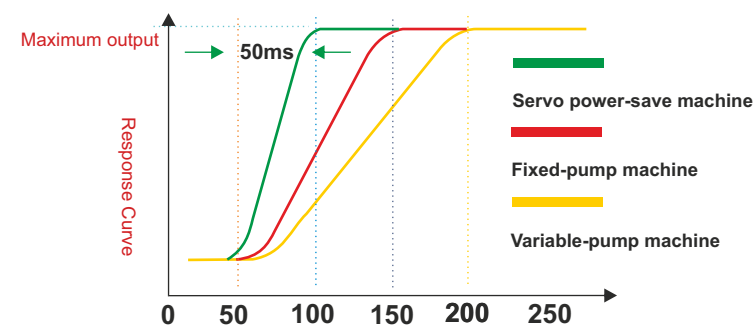
SERVO SYSTEM PRINCIPLE



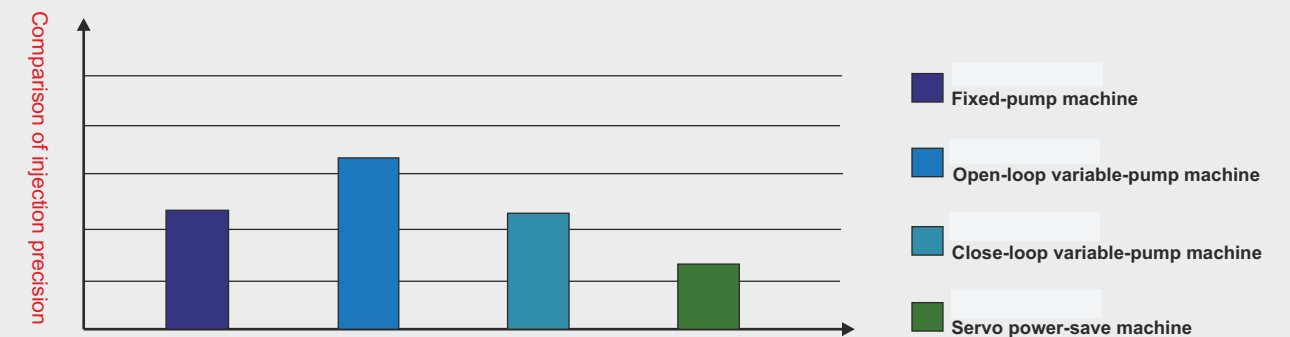
Servo energy-saving machines are equipped with rotary encoder and pressure sensor and both of them had feedback of flow and pressure. Through changing the speed and torque, high quality synchronous servo motor makes corresponding flow and pressure adjustments to reach the effects of close-loop precision control and energy saving.

QUICK RESPONSE SERVO MOTOR

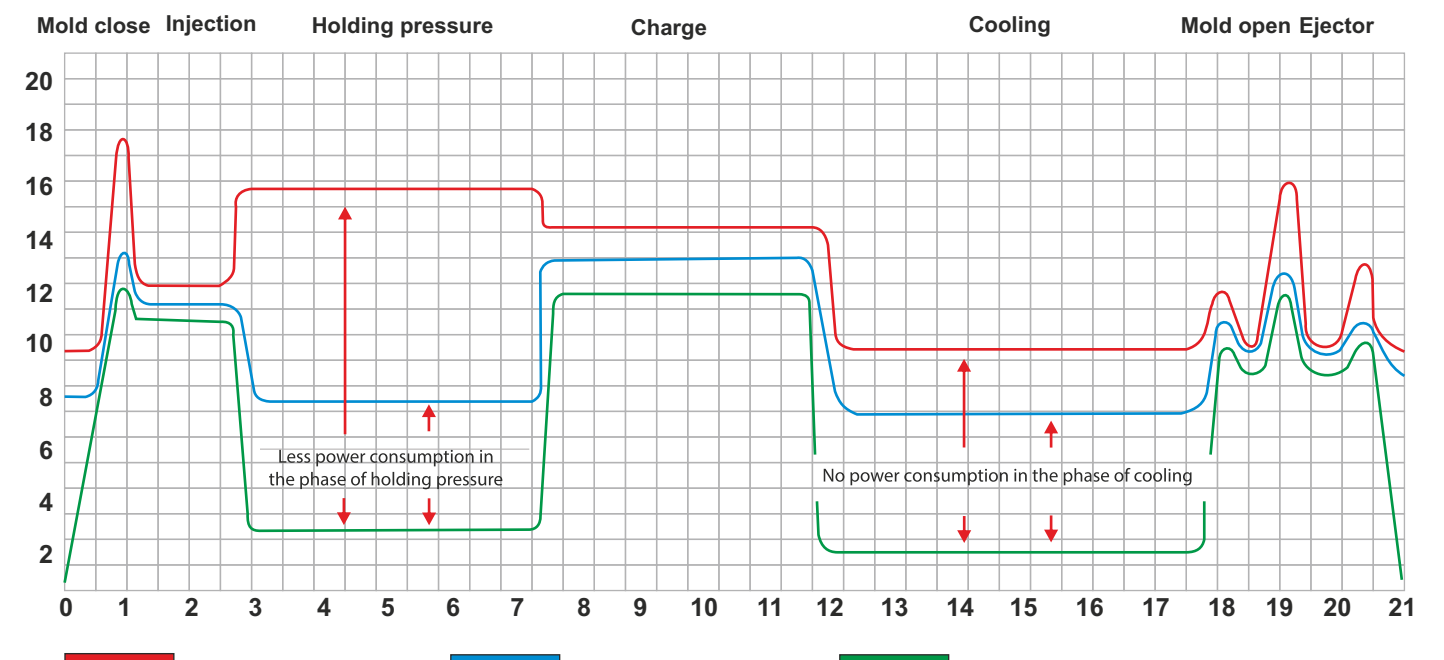
It Costs only 0.5s for servo energy saving injection machines to achieve the maximum output in comparison with conventional hydraulic injection molding machines, therefore it is more efficient.



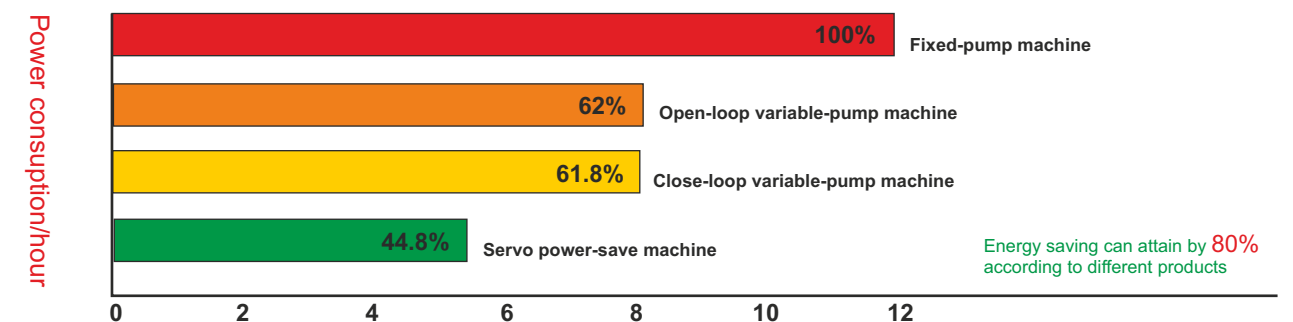
Comparison table of practical measured injection precision of hydraulic injection molding machines(For wall-thin products)



Ultimate energy efficiency of servo power-save injection molding machines



Servo energy-saving injection molding machines : there is no extra energy consumption due to output volume changes according to load alteration. In the phase of holding pressure, servo motor lowers rotate speed and consumes a little of energies. In the phase of cooling, motor doesn't work and consumes no energy. According to different products, servo energy-saving injection molding machines will save 20%-80% energy and bring you prominent economic benefit.

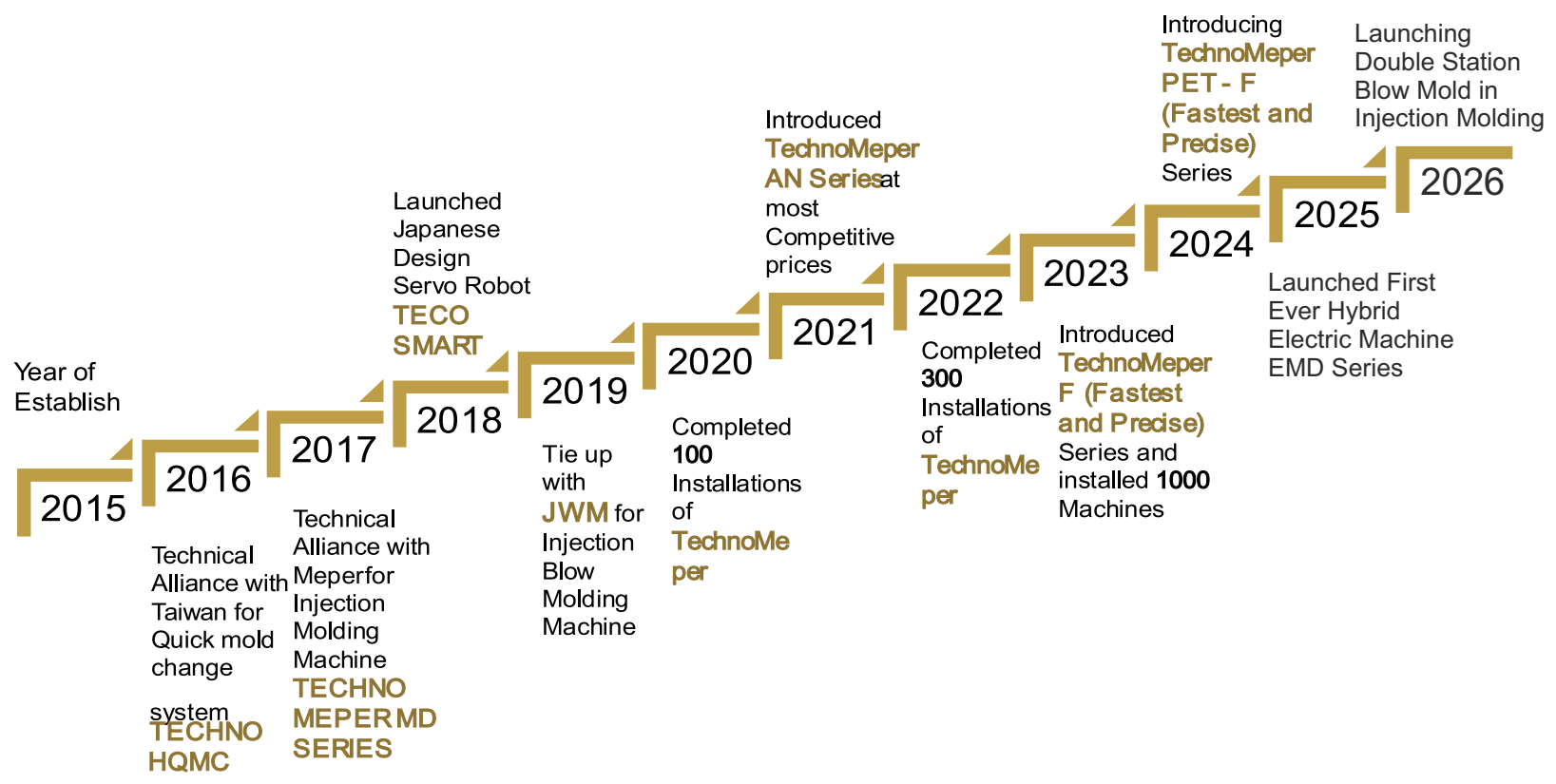


OUR TIML TEAM & INFRASTRUCTURE



HIGHLY EXPERIENCED AND TRAINED TEAM OF ENGINEERS FOR MANUFACTURING ASSEMBLY, QUALITY CONTROL & AFTER SALES MAINTNEANCE.

TIML GROWTH STORY



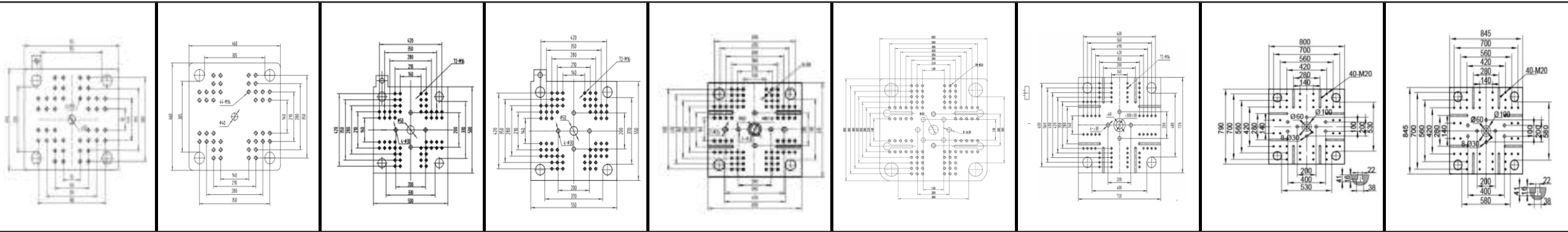
SMD Series

SMD Series Technical Specification



MODEL PARTS		TM40SMD			TM60SMD			TM80SMD			TM100SMD			TM120SMD			TM160SMD			TM180SMD			TM220SMD			TM280SMD		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
INJECTION UNIT																												
INJECTION UNIT														INJECTION UNIT														
Screw Diameter	mm	19	22	25	25	28	32	32	34	36	32	35	38	35	38	42	42	45	50	42	45	50	45	50	55	55	60	64
Screw L/D Ratio	L/D	20.5	17.7	15.5	22.6	20.2	17.7	22.3	21	19.8	24.8	22	20	23.8	22	19.9	23	21.5	19.4	23.6	22	19.8	23.4	21	19.1	22.8	21	19.7
Shot Volume Theoretical	cm³	22.6	30	38	56	70	92	113	127	142	117	139	164	192	227	287	311	357	441	311	357	441	397	490	593	641	763	868
Injetion Weight (PS)	g	20.6	27	34	51	64	83	103	116	130	106	127	150	175	206	252	283	325	402	283	325	402	362	446	540	583	694	790
Injection Rate	g/sec	30	40	50	59	74	96	89	115	129	84	100	118	111	130	159	138	160	196	138	160	196	190	235	280	251	299	340
Injection Pressure	Mpa	280	209	162	265	211	162	203	180	160	232	194	165	219	186	152	216	188	152	216	188	152	207	168	139	193	162	143
Screw Speed	rpm	0.200			0.200			0.200			0.200			0.-200			0.-200			0.-200			0.-200			0.-200		
Plasticizing Capacity (PS)	g/sec	2	2.6	3.3	5.6	6.9	8.8	10.5	11.6	13	10.4	11.6	13	12	17	23	20	27	34	20	27	34	27	34	40	40	52	64
CLAMPING UNIT																												
CLAMPING UNIT														CLAMPING UNIT														
Clamping Force	KN	400			600			800			1000			1200			1600			1800			2200			2800		
Open Stroke	mm	155			270			300			330			350			415			435			485			553		
Space between tie-bars (WxH)	mm	255x220			305x305			330x330			370x370			410x410			460x430			480x480			530x530			580x580		
Mold Platen	mm	375x340			460x460			500x500			550x550			615x610			684x650			720x720			800x790			845x845		
Max. Mold thickness	mm	260			340			360			400			450			510			535			550			580		
Min. Mold Thickness	mm	80			100			130			150			150			160			180			200			220		
Ejector Stroke	mm	40			70			85			100			130			130			145			142			150		
Ejector Force	KN	13			25			31			31			45			45			53			70			70		
Ejector number	PC	1			1			5			5			5			5			5			9			9		
Dia of Mould location hole	mm	55			80			100			125			125			125			125			160			160		
OTHERS																												
POWER														POWER														
Max pump pressure	Mpa	14			16			16			16			16			16			16			16			16		
Servo motor power	KW	5.5			7.9			13.4			13.4			16.4			20.5			20.5			26.7			31.4		
Heating Power	KW	2.6			4.7			6			7.2			8.5			12			12.3			14.8			16.8		
Machine dimension("WxH")	m	2.85x0.88x1.6			3.3x1.1x1.6			3.9x1.2x1.65			4.2X1.2X1.65			4.4x1.28x1.9			4.7x1.4x2.0			5.13x1.45x2.12			5.6x1.5x2.2			5.9x1.6x2.2		
Oil tank capacity	L	85			115			130			150			230			250			300			320			360		
Machine weight	T	1.1			1.9			2.5			2.8			3.6			4.9			5.3			6.9			7.9		

Platen dimensions(Facing)



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

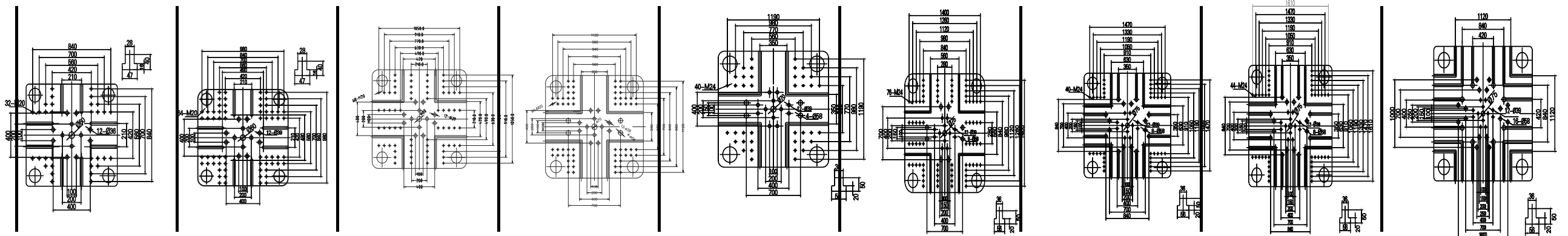
MD Series

MD Series Technical Specification



ITEM \ SPECIFICATION		TM320MD			TM400MD			TM500MD			TM600MD			TM700MD			TM900MD			TM1050MD			TM1200MD			TM1400MD		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
INJECTION UNIT																												
Screw Diameter	mm	60	65	70	65	70	75	75	80	85	80	85	90	85	90	100	90	100	110	100	110	120	110	120	130	120	130	140
Screw L/D Ratio	L/D	23.8	22	20.4	23.7	22	20.5	23.5	22	20.7	23.4	22	20.8	23.3	22	19.8	24.4	22	20	24.5	22.3	20.4	24.2	22.2	20.5	23.8	22	20.4
Shot Volume Theoretical	cm³	792	929	1078	1261	1462	1679	1811	2061	2327	2287	2582	2895	2667	2990	3691	3117	3848	4657	4163	5037	5994	5037	5994	7035	6786	7964	9236
Injetion Weight PS	g	728	855	991	1160	1345	1544	1666	1896	2140	2104	2375	2663	2454	2751	3396	2868	3541	4284	3830	4634	5515	4634	5515	6472	6243	7327	8497
Injection Pressure	Mpa	198	169	145	194	168	146	191	168	148	188	167	148	198	177	143	227	184	152	212	175	147	181	152	129	184	156	135
Injection Rate	g/sec	247	290	337	252	292	335	360	410	463	410	463	519	437	490	605	518	640	774	640	774	921	750	892	1047	800	939	1089
Motor Displacement	ml/r	894			1234			1648			1815			2553			3218			4153			4968			6540		
Screw Speed	rpm	230			165			175			180			140			150			130			110			95		
Platisizing Capacity (ps)	g/ses	54.7	64.1	74.4	53	61.6	70.8	74.4	84.7	95.5	86.3	97.5	109	77.5	86.9	107	99.7	123	149	129	156	186	130	155	182	141	165	191
CLAMPING UNIT																												
Clamp Tonnage	KN	3200			4000			5000			6000			7000			9000			10500			12000			14000		
Toggle Stroke	mm	640			700			780			860			970			1100			1200			1250			1350		
Min.Mold Height	mm	250			280			300			350			400			430			440			450			600		
Max.Mold Height	mm	680			780			820			900			950			1100			1150			1200			1400		
Space Between Tie Bars	mm	680 x 620			750x710			830 x 780			880 x 830			960 x 960			1060 x 1060			1160 x 1160			1220 x 1220			1350 x 1350		
Platen dimensions	mm	905 x 855			980x920			1205 x 1155			1290 x 1240			1400 x 1400			1510 x 1510			1570 x 1570			1690 x 1690			1770 x 1770		
Tie-bar diameter	mm	Ø105			Ø110			Ø135			Ø150			Ø160			Ø170			Ø190			Ø190			Ø200		
Ejetor Tonnage	KN	70			100			120			150			170			200			240			240			280		
Ejector Stroke	mm	185			200			230			260			280			320			340			350			400		
Ejector Number	PC				17			13			17			17			21			21			21			29		
OTHERS																												
POWER																												
Max.Pump Pressure	Mpa	16			16			16			16			16			16			16			16			16		
Hwater Power	KW	18.5			23.5			32			43			47			52			65			71.35			84		
Servo Motor Power	KW	33			33			33+13			33+18			33+20			33+33+13			33+33+20			33+33+20			33+33+33		
Oil Tank Cubage	L	550			630			700			900			1200			1500			2000			2000			2300		
Machine Dimension LXWXH)	M	6.9x1.6x2.3			7.5x1.65x2.35			8.15x1.95x2.5			9.3x2.2x2.71			9.8x2.4x2.7			11.5x2.56x2.82			12x2.58x3.7			12.3x2.6x3.7			15x2.75x4.2		
Machine Weight	T	10.5			13.2			17.5			24			31			49			55			60			85		

Platen dimensions(Facing)



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

TRADE FAIR



AWARDS FROM GOVT. OF INDIA



AWARDED BY:
HONORABLE CABINET MINISTER SH. JITAN RAM MANJHI & MEMBER OF PARLIAMENT SH. MANOJ TIWARI JI
BEST MSME IN INJECTION MOLDING MACHINE CATEGORY (VOCAL FOR LOCAL)



AWARDED BY:
HONORABLE CABINET MINISTER SH. CHIRAG PASWAN
(MAKE IN INDIA CONCLAVE BY ABP NEWS)

FEW OF OUR PRESTIGIOUS CLIENTS

