



ZHANGJIAGANG GREAT MACHINERY CO., LTD.

PLASTIC MACHINERY TOTAL SOLUTION PROVIDER



ZHANGJIAGANG GREAT MACHINERY CO., LTD.

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Great Machinery, Molding Your Dream



Brief Introduction

Zhangjiagang Great Machinery Co., Ltd. is located in the new river port city-Zhangjiagang, which is about two hours by car from Shanghai airport.

Our company is specialized in designing and producing Blow molding machine, Injection molding machine, PET bottle blowing machine, Injection blow molding machine, Plastic mould and Plastic products.

Our company established in 1991. For about 20 years study and endeavor, we have great development in plastic industry field. Our machines and moulds have been exported to many countries in Southeast Asia, Middle Asia, South Africa, South America, Europe, Canada, New Zealand and Russia. All of our clients give high reputations for our machines and services.

Our main products like:

0.2L-220L Blow molding machine

60T-4000T injection molding machine

0.2L-5L Fully-automatic PET bottle blowing machine

0.2L-20L Semi-automatic PET bottle blowing machine

0.1L -0.6L injection blow molding machine

PET preform mold from 1 up to 72cavities

PET preform and cap for mineral water & carbonated beverage

Look forward to your visiting and cooperation!

Great machinery, Molding your dream!



**We will offer a 360° solution includes everything for you!
There is one-to-one quickly service for every client.**

Services

Our service object is the real demand of your project and your specific product. Our service goal lays in increasing your investment efficiency and reducing the avoidable wastes and costs.

From the beginning of your first email for inquiry and the first step into our company, our service has begun. Studying your samples seriously, analyzing your demands carefully, choosing the suitable machine model objectively, even customizing machines for you specially..., the customer service we believe in will give expression through the equipments and engineering we provide. We keep carrying out our responsibility always in the field of plastic molding machinery and mold.

Engineering

There is no lonely machine, but an integrated system.

Right! We focus our eyes on the plastic molding machinery engineering as a whole, rather than as simple as supplying an injection molding machine or blow molding machine only.

Guarantee

Machine need insurance as same as human.

The guarantee and insurance to the machine, is what the customers care most and what we attach importance to. The entire guarantee system could lengthen the machine life substantially and reduce the machinery investment shared by the products, making your product more competitive. We have established a suit of entire organization:

- ⊗ One year guarantee time and spare parts provided as a present, insuring the normal running and production.
- ⊗ The training to your operators before delivery, avoiding the mistake possibility due to wrong operation
- ⊗ The engineers dispatched to install and adjust the machine in your factory, laying the good beginning for your production.
- ⊗ Enough spare parts stored to make sure we can send to you replaced parts without any delay
- ⊗ The free technical supports and consultant service all the machine and mold life



GRT SINGLE STATION SERIES

FULLY AUTOMATIC SINGLE STATION BLOW MOLDING MACHINE



BASIC EQUIPMENT

Clamping system	Single station +High-precision guide+Large arm cylinder axle
Extrusion system	Hard gear box+ inverter
Die system	Control-incoming die with special steel
Hydraulic system	Hydraulic valve, seal parts and proportional control
Control system	Import PLC+Human-machine+PLC automatic temperature control model

Main Specifications

Main Parameters	Unit	GRT50-2L	GRT60-5L	GRT70-12L
Max. Product Volume	(L)	2	5	12
Dry Cycle	(pcs/h)	1500	1100	900
Screw Diameter	(mm)	50	60	70
Screw L/D Ratio	(L/D)	24	24	24
Screw Drive Power	(KW)	11	15	22
Screw heating Power	(3ΦKW)	4.2	6.5	7.8
Screw Heating Zone	(Zone)	3	3	4
HPDE Output	(kg/h)	35	70	90
Oil Pump Power	(KW)	5.5	7.5	11
Clamping Force	(KN)	40	65	120
Mold Stroke	(mm)	138-368	164-524	280-660
Mold platen size	(W×H)(mm)	300×320	320×380	520×540
Max. Mold Size	(W×H)(mm)	300×320	380×390	530×520
Blowing Pressure	(MPa)	0.6	0.6	0.6
Air Consumption	(M3/min)	0.4	0.5	0.8
Cooling Water Pressure	(MPa)	0.3	0.3	0.3
Water Consumption	(L/min)	35	50	60
Machine Size	(L×W×H)(m)	2.6×1.6×2.4	2.9×1.8×2.6	3.8×2.2×3.1
Machine Weight	(Ton)	3.2	5.8	6.0

Die-head

Number of heating zone	(Zone)	3	3	3
Power of die heating	(4ΦKW)	1.8	2.5	3
Max.die pin diameter	(mm)	100	140	230
Center distance of double die	(mm)	130	150/160	240/180
Center distance of tri-die	(mm)	110	110	160/110
Center distance of tetra-die	(mm)	60/80	80	110/80





GRT DOUBLE STATION SERIES

FULLY AUTOMATIC DOUBLE STATION BLOW MOLDING MACHINE



Main Specifications

Main Parameters	Unit	GRT60-2L	GRT70-5L	GRT90-12L
Max. Product Volume	(L)	2	5	12
Dry Cycle	(pcs/h)	900×2	700×2	600×2
Screw Diameter	(mm)	60	70	90
Screw L/D Ratio	(L/D)	24	24	25
Screw Drive Power	(KW)	15	22	37
Screw heating Power	(3ΦKW)	6.5	7.2	8.8
Screw Heating Zone	(Zone)	3	3	4
HPDE Output	(kg/h)	70	90	130
Oil Pump Power	(KW)	5.5	7.5	11
Clamping Force	(KN)	40	65	120
Mold Stroke	(mm)	138-368	164-524	280-660
Mold platen size	(W×H)(mm)	300×320	320×380	520×540
Max. Mold Size	(W×H)(mm)	300×320	380×390	530×520
Blowing Pressure	(MPa)	0.6	0.6	0.6
Air Consumption	(M3/min)	0.5	0.6	0.8
Cooling Water Pressure	(MPa)	0.3	0.3	0.3
Water Consumption	(L/min)	50	60	60
Machine Size	(L×W×H)(m)	2.8×2.2×2.4	3.2×2.2×2.5	4.6×3.1×2.8
Machine Weight	(Ton)	4.3	7.8	11

Die-head

Number of heating zone	(Zone)	3	3	4
Power of die heating	(4ΦKW)	1.8	2.5	3
Max.die pin diameter	(mm)	100	140	230
Center distance of double die	(mm)	130	150/160	240
Center distance of tri-die	(mm)	110	110	160
Center distance of tetra-die	(mm)	60/80	80	110

BASIC EQUIPMENT

Clamping system	Double station +High-precision guide+Large arm cylinder axle
Extrusion system	Hard gear box+ inverter
Die system	Control-incoming die with special steel
Hydraulic system	Hydraulic valve, seal parts and proportional control
Control system	Import PLC+Human-machine+PLC automatic temperature control model





GRT SINGLE STATION SERIES

FULLY AUTOMATIC ENERGY SAVING BLOW MOLDING MACHINE



Main Specifications

Main Parameters	Unit	GRT60-10L	GRT70-15L	GRT85PC-30L
Max. Product Volume	(L)	10	15	30
Dry Cycle	(pcs/h)	850	900	650
Screw Diameter	(mm)	60	70	82
Screw L/D Ratio	(L/D)	24	24	38
Screw Drive Power	(KW)	15	22	40
Screw heating Power	(4ΦKW)	6.5	7.8	21
Screw Heating Zone	(Zone)	3	4	8
HPDE/PC Output	(kg/h)	70	90	150
Oil Pump Power	(KW)	7.5	7.5	45
Clamping Force	(KN)	80	120	220
Mold Stroke	(mm)	280-642	280-640	400-900
Mold platen size	(W×H)(mm)	520×580	560×750	760×660
Max. Mold Size	(W×H)(mm)	345×580	420×750	600×700
Accumulator Capacity	(L)	2.5		1.9
Max. Die Diameter	(mm)	180	250	150
Die Heating Power	(4ΦKW)	7.0	3.5	8.0
NO. of Heating Zone	(Zone)	4	4	4
Blowing Pressure	(MPa)	0.6	0.6	1
Air Consumption	(M3/min)	0.7	0.8	1
Cooling Water Pressure	(MPa)	0.3	0.3	0.3
Water Consumption	(L/min)	50	60	130
Machine Size	(L×W×H)(m)	3.3×1.4×2.8	3.8×2.2×2.7	5.1×2.4×3.8
Machine Weight	(Ton)	5.1	6	13.5

BASIC EQUIPMENT

1. Import PLC+Human-machine+PLC automatic temperature control model
2. Introduce "quick-charge" and energy saving valve to the hydraulic system, effective reduce to be the lower working temperature, extend the working life of the hydraulic parts, and save 20% to 40% energy power than the normal type.
3. Variety of function used for different product technological requirements: bottom blow and lift, rotation, encapsulation, sub-mould, robot, Parison control system, etc...





GRT LARGE SERIES

FULLY AUTOMATIC ENERGY SAVING BLOW MOLDING MACHINE



Main Specifications

Main Parameters	Unit	GRT80-30L	GRT90-60L	GRT100-90L
Max. Product Volume	(L)	30	60	90
Dry Cycle	(pcs/h)	650	500	360
Screw Diameter	(mm)	80	90	100
Screw L/D Ratio	(L/D)	25	25	25
Screw Drive Power	(KW)	30	37	45
Screw heating Power	(4ΦKW)	16	21	24
Screw Heating Zone	(Zone)	4	4	4
HPDE Output	(kg/h)	100	140	180
Oil Pump Power	(KW)	15	18.5	22
Clamping Force	(KN)	180	350	500
Mold Stroke	(mm)	400-900	500-1200	550-1250
Mold platen size	(W×H)(mm)	760×660	950×900	1000×1350
Max. Mold Size	(W×H)(mm)	600×700	700×900	800×1000
Accumulator Capacity	(L)	4	6.6	12
Max. Die Diameter	(mm)	300	350	430
Die Heating Power	(4ΦKW)	11.9	17	20
NO. of Heating Zone	(Zone)	4	4	5
Blowing Pressure	(MPa)	0.8	0.8	0.8
Air Consumption	(M3/min)	0.8	1.0	1.2
Cooling Water Pressure	(MPa)	0.3	0.3	0.3
Water Consumption	(L/min)	60	85	100
Machine Size	(L×W×H)(m)	4.6×2.4×3.5	5.2×2.5×3.9	5.5×2.8×4.6
Machine Weight	(Ton)	11.7	13.0	16

BASIC EQUIPMENT

1. Import PLC+Human-machine+PLC automatic temperature control model
2. Introduce "quick-charge" and energy saving valve to the hydraulic system, effective reduce to be the lower working temperature, extend the working life of the hydraulic parts, and save 20% to 40% energy power than the normal type.
3. Variety of function used for different product technological requirements: bottom blow and lift, rotation, encapsulation, sub-mould, robot, Parison control system, etc...





GRT LARGE SERIES

FULLY AUTOMATIC ENERGY SAVING BLOW MOLDING MACHINE



Main Specifications

Main Parameters	Unit	GRT120-120L	GRT160-160L	GRT220-220L
Max. Product Volume	(L)	120	160	220
Dry Cycle	(pcs/h)	360	300	280
Screw Diameter	(mm)	100	120	120
Screw L/D Ratio	(L/D)	28	28	33
Screw Drive Power	(KW)	55	75/90	110/132
Screw heating Power	(4ΦKW)	24	30	36
Screw Heating Zone	(Zone)	4	5	6
HPDE Output	(kg/h)	200	250	350
Oil Pump Power	(KW)	37	45	55
Clamping Force	(KN)	550	800	900
Mold Stroke	(mm)	550-1400	600-1500	700-1600
Mold platen size	(W×H)(mm)	1100×1100	1250×1600	1350×1600
Max. Mold Size	(W×H)(mm)	800×1250	1000×1500	1100×1600
Accumulator Capacity	(L)	14	18	25
Max. Die Diameter	(mm)	450	520	580
Die Heating Power	(4ΦKW)	21	25	30
NO. of Heating Zone	(Zone)	5	5	6
Blowing Pressure	(MPa)	0.8	0.8	0.8
Air Consumption	(M3/min)	1.6	1.6	1.8
Cooling Water Pressure	(MPa)	0.3	0.3	0.3
Water Consumption	(L/min)	150	180	220
Machine Size	(L×W×H)(m)	6.1×2.7×4.5	5.85×2.7×4.6	6.0×3.0×4.9
Machine Weight	(Ton)	17	22.5	30

BASIC EQUIPMENT

1. Import PLC+Human-machine+PLC automatic temperature control model
2. Introduce "quick-charge" and energy saving valve to the hydraulic system, effective reduce to be the lower working temperature, extend the working life of the hydraulic parts, and save 20% to 40% energy power than the normal type.
3. Variety of function used for different product technological requirements: bottom blow and lift, rotation, encapsulation, sub-mould, robot, Parison control system, etc...





World famous brand name components Build world brand name enterprise.

We aspire after perfection in each area and detail.

Only qualified parts can compose of high-function complete equipment.

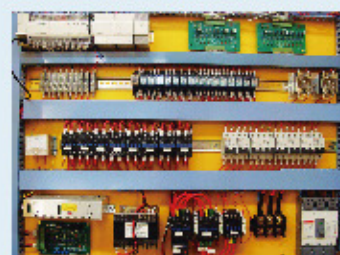
We believe that only the same quality in both inner and outer, which makes good products.

HYDRAULIC PATTERN AND PNEUMATIC SYSTEM

We adopted the oil circulation system from America vielcers or Japan YUKEN. The selecting of oil pump, circulation board and the unique filter system, makes the oil circulation with faster speed, stability in reducing speed, low noise, energy conservation and long duration.

ELECTRICAL CONTROLLING SYSTEM

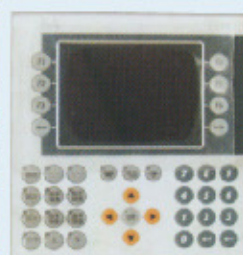
On the basis of our rich experiences in extrusion field, we all adopt quality pneumatic accessories, and in accordance with the requirement of each extrusion blow products, we design different blowing article, air exhausting, air dryness and so on blow system.



Electric box



Japan, Mitsubishi PLC system



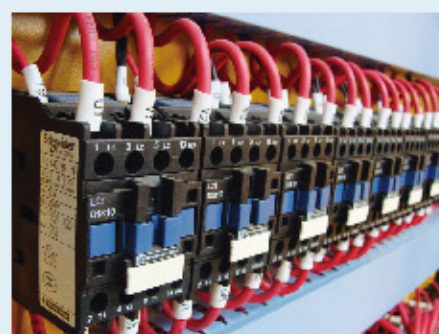
B&R parison control



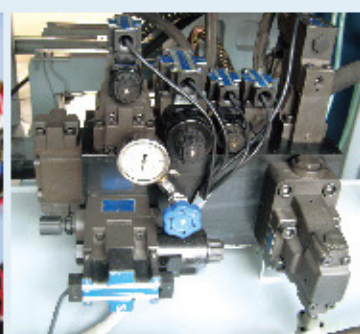
MOOG parison control



Bottom blow mechanism



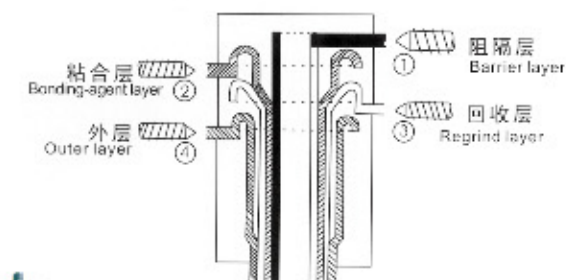
Contactor switch



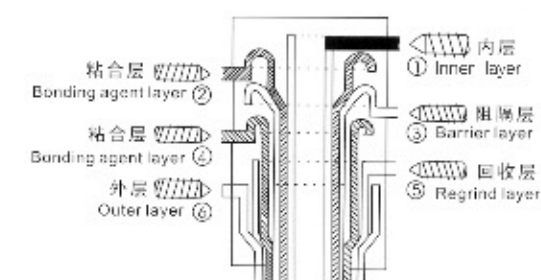
Famous hydraulic valve

Diehead System

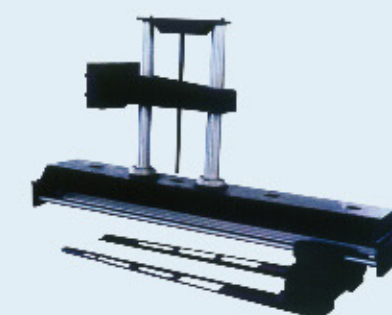
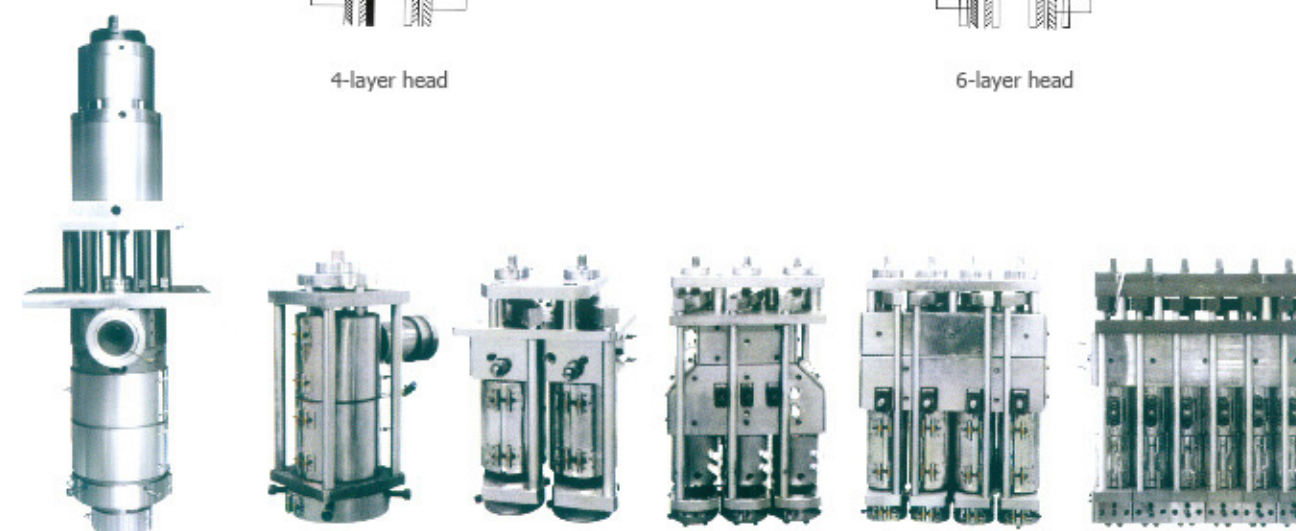
1-layer single diehead, 2-layer double diehead, 2-layer diehead with view stripe by centre feeding of out-layer, triple diehead quad diehead, hexa diehead, 3-layer, 4-layer, 5-layer and 6-layer diehead.



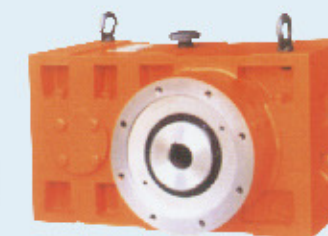
4-layer head



6-layer head



Robot arm



Reducer



Extrusion system
Various screw design for high efficiency of mixing and plasticizing the quality.



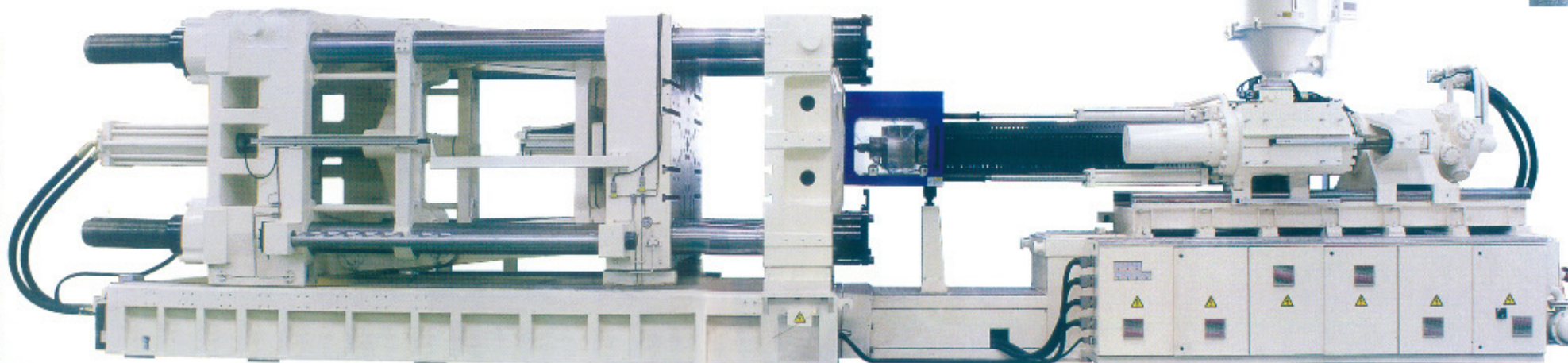
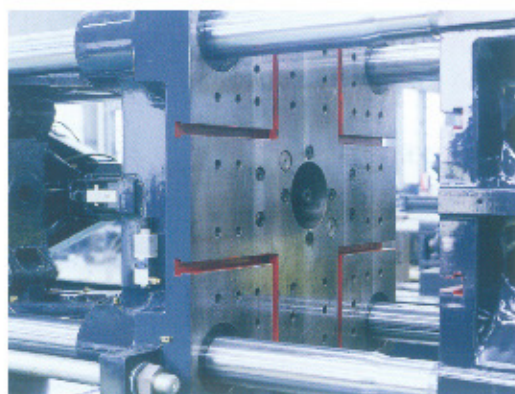
CLASSIC SERIES

Our injection molding machine could using all kind of thermoplastic material, such as PP, PE, ABS, PET, PC, PVC... We could supply the machine from 60ton to 4000ton. It can meet the client's all kind of purchase demand and profits, with high quality & reliability, stable working & attractive price-performance ratio.

Our plastic injection molding machine can be widely used for products like pipe fitting, auto-mobile parts, home appliances, logistic & transportation equipments, electron, food packages, medical equipments, toy etc. We offer customers with turn- key solutions and good service support. The wide application range will sure to offer the plastic industry with more IMM solutions and choices.

CLAMPING UNIT

- ◎ Five points tri-toggle clamping unit, finite-element analysis for palten design and modular structure guarantee rigidity of clamping as well as prolonged operation life.
- ◎ Thread hole(Domestic) or T slot(Export) for varies mould setting.
- ◎ Self-lubricated bushes in toggle system.



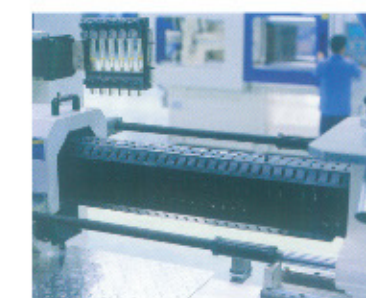
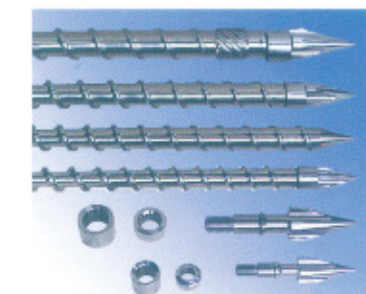
ELECTRIC UNIT

- ◎ Waterproof cabinet. Electric parts from famous brands to ensure reliability.
- ◎ Highly precise professional controller. Multiple languages in.



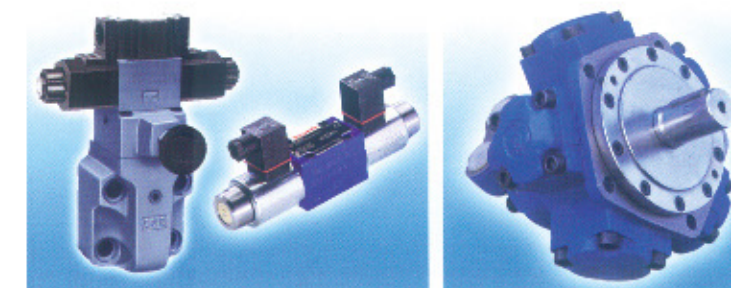
INJECTION UNIT

- ◎ Specially designed nitride steel screws for PE, PC, PVC & PET. Bimetallic screws fit for corrosive materials or fiber glass(Optional).
- ◎ Twin cylinder nozzle movement and balance on both sides ensures no skewing on spray nozzle and no leaking of materials(standard for export).



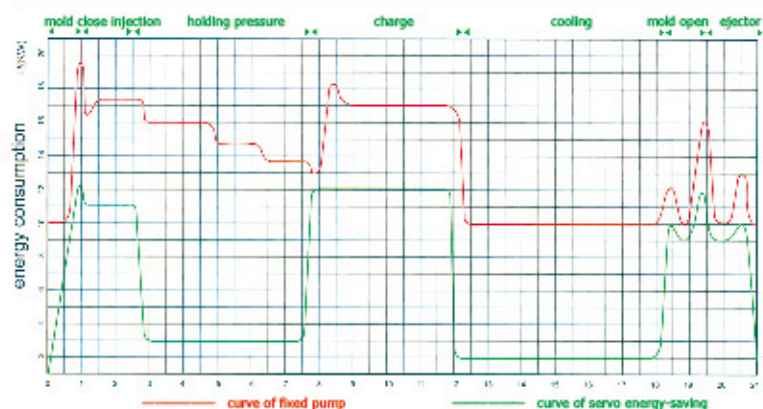
HYDRAULIC UNIT

- ◎ Pressure & speed proportional load induction hydraulic system.
- ◎ Hydro-motor, pumps, valves, seals and high pressure hoses from prestigious brands to ensure high quality.

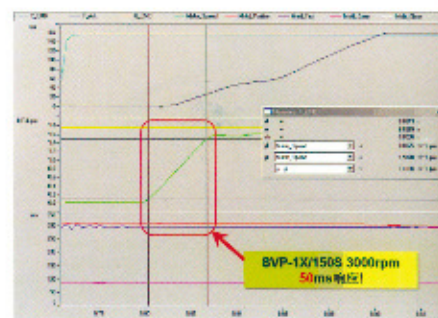




DREAM SERIES MACHINE ADVANTAGES



③ Save power by 30~80%, comparing with traditional hydraulic motor system



③ Servo motor system with quick response, response time 30~50ms.



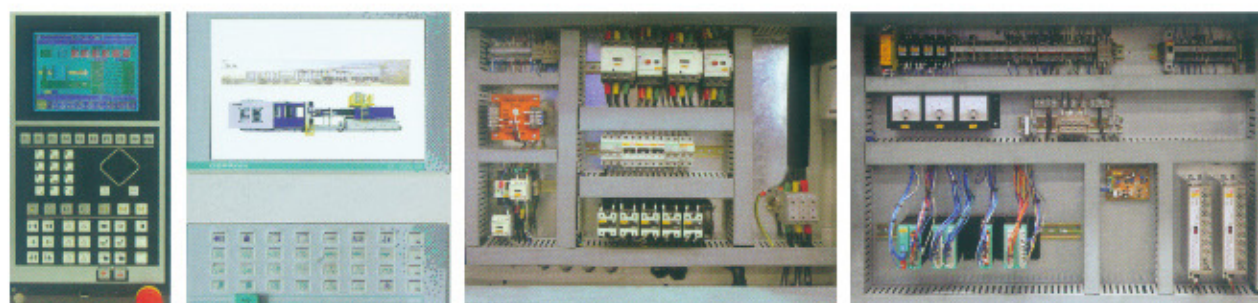
③ Versatile controller with excellent QC monitoring function, temperature detecting function.



③ Power-consumption monitoring function and clamping force instant display function.



③ World leading Servo motor system

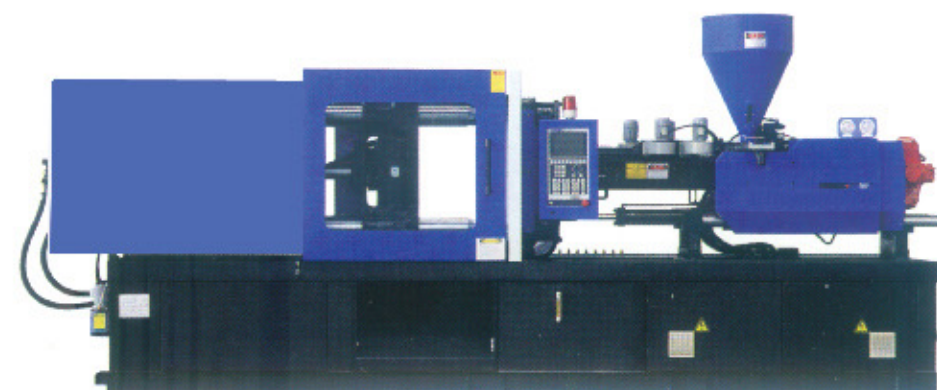


③ Water & dust-proof electrical cabinets, separated cabinets for strong current/weak current, electrical components from world famous brands.

SERVO INJECTION MOLDING MACHINE



PET&PVC&PPR INJECTION MOLDING MACHINE



DREAM SERIES INJECTION MOLDING MACHINE





CLASSIC SERIES

SPECIFICATION

		unit	TR60			TR80			TR100			TR140			TR160			TR188			TR230			TR280			TR320		
			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	25	28	32	28	32	35	35	38	42	40	45	50	40	45	50	45	50	55	50	55	60	55	62	67	62	67	72
	Screw L/D Ratio		22.4	20.0	17.5	22.9	20.0	18.3	21.7	20.0	18.1	22.5	20.0	18.0	22.5	20.0	18.0	22.2	20.0	18.2	24.0	21.8	20.0	22.5	20.0	18.5	22.7	21.0	19.5
	Theoretical Shot Volume	cm³	68	85	111	98	128	153	158	186	227	220	278	343	251	318	393	334	412	499	488	591	703	651	827	966	827	966	1116
	Injection Weight(PS)	g	62	77	101	89	116	139	144	169	207	200	253	342	229	289	357	304	375	454	444	538	640	592	753	879	753	879	1015
	Injection Rate into Air	cm³/s	46/68	58/86	76/112	56/69	74/90	88/108	84/95	99/112	121/137	91/116	115/147	142/182	116/135	147/170	182/210	126/156	156/192	189/233	133/152	160/184	191/218	153/214	195/271	227/317	275/346	321/404	371/467
	Injection Rate into Air(ACC)	cm³/s	208	262	3742	208	271	325	253	298	364	457	578	714	457	578	714	423	522	632	687	832	990	700	890	1039	890	1040	1201
	Injection Pressure	bar	2356	1878	1438	2360	1807	1511	1939	1645	1347	2015	1592	1290	2015	1592	1290	2175	1762	1456	2230	1843	1549	2189	1723	1475	1724	1476	1278
	Injection Stroke	mm	139			159			164			175			200			210			249			274			274		
CLAMPING UNIT	Screw Speed	rpm	0~206/0~307			0~189/0~230			0~187/0~212			0~190/0~242			0~237/0~280			0~181/0~223			0~154/0~175			0~133/0~187			0~167/0~211		
	Clamping Force	KN	600			800			1000			1400			1600			1880			2300			2800			3200		
	Clamping Stroke	mm	300			300			320			400			420			470			510			550			640		
	Space Between Tie Bar	mm	320×320			320×320			360×360			410×410			460×460			510×470			560×530			580×580			670×650		
	Max.Mold Height	mm	320			320			350			400			460			500			550			600			660		
	Min.Mold Height	mm	100			100			100			160			180			180			200			200			250		
	Eject Stroke	mm	100			100			100			110			120			125			135			167			167		
	Eject Force	KN	38			38			38			38			38			53			62			70			70		
OTHERS	No.Of Ejector Pins	piece	5			5			5			5			5			5			9			9			13		
	Max. Pump Pressure	Mpa	16			16			16			16			16			16			16			16			16		
	Pump Motor Power	KW	7.5/11.0			7.5/11.0			11.0/13.0			13.0/15.0			15.0/18.5			18.5/22.0			18.5/22.0			22.0/30.0			30.0/37.0		
	Heater Power	KW	5			6			7			11			11			14			16			18			20		
	Hopper Capacity	Kg	25			25			25			25			25			50			50			50			50		
	Oil Tank Capacity	L	160			180			180			245			245			310			400			500			600		
	Machine Dimension(L×W×H)	m	3.6×1×1.94			3.73×1.1×1.95			3.9×1.1×2			4.56×1.22×2.1			4.8×1.22×2.15			5.15×1.32×2.2			5.76×1.37×2.2			6.17×1.44×2.36			6.88×1.6×2.45		
	Machine Weight	T	2.6			2.7			3.1			4.1			4.8			5.5			7.3			8.8			11.5		

		unit	TR400			TR500			TR650			TR850			TR1000			TR1500			TR1800			TR2200			TR2800		
			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	70	75	80	75	80	85	80	90	100	90	100	110	100	110	120	120	130	140	130	140	150	150	160	170	200	210	220
	Screw L/D Ratio		21.4	20.0	18.8	23.5	22.0	20.7	24.8	22.0	19.8	24.4	22.0	20.0	24.2	22.0	20.2	23.8	22.0	20.4	23.7	22.0	20.5	23.5	22.0	20.7	23.1	22.0	21.0
	Theoretical Shot Volume	cm³	1385	1590	1809	1762	2005	2263	2372	3002	3706	3238	3997	4836	4155	5027	5983	6774	7950	9220	9145	10606	12175	13942	15863	17908	39552	43606	47858
	Injection Weight(PS)	g	1260	1447	1646	1640	1825	2060	2158	2732	3373	2946	3637	4401	3781	4575	5444	6164	7235	8390	8322	9651	11079	12687	14435	16296	39552	39681	43551
	Injection Rate into Air	cm³/s	341/407	391/467	445/531	382/457	434/520	490/587	463/592	586/749	723/925	599/717	740/885	895/1070	698/811	845/981	1006/1168	872/987	1023/1058	187/1343	1049/1153	1216/1337	1396/1535	1475/1651	1678/1878	1894/2120	1992	2197	2411
	Injection Rate into Air(ACC)	cm³/s	1228	1410	1604	1152	1311	1480	1507	1908	2355	1546	1909	2310	2923	3537	4210	3140	3685	4273	3151	3654	4194	3331	3790	4279	——	——	——
	Injection Pressure	bar	1748	1523	1339	1865	1639	1452	2240	1770	1434	2184	1769	1462	2101	1736	1459	1955	1666	1437	1948	1680	1463	1734	1524	1350	1711	1552	1414
	Injection Stroke	mm	360			399			470			509			529			599			689			789			1259		
Screw Speed	rpm	0~1790/0~214			0~153/0~183			0~132/0~169			0~103/0~123			0~105/0~122			0~98/0~122			0~93/0~102			0~86/0~92			0~60			
Clamping Force	KN	4000			5000			6500			8500			10000			15000			18000			22000			28000			
Clamping Stroke	mm	700			770			900			1000			1100			1250			1520			1700			1900			
Space Between Tie Bar	mm	720×720			800×800			900×900			1000×1000			1150×1150			1360×1200			1600×1480			1750×1620			1850×1650			
Max.Mold Height	mm	730			800			920			1000			1100			1400			1550			1600			1850			
Min.Mold Height	mm	220			250			320			350			400			600			650			700			700			
Eject Stroke	mm	180			231			245			280			323			350			400			400			403			
Eject Force	KN	126			152			181			212			282			282			407			502			554			
No.Of Ejector Pins	piece	13			13			17			21			21			25			25			29			29			
OTHERS	Max. Pump Pressure	Mpa	16			16			16			16			16			16			16			16			16		
	Pump Motor Power	KW	37.0/45.0			45.0/55.0			30+37/30+55			37+45/45+55			45+45/55+55			55+55/55+75			55+75/75+75			55+55+55/55+55+75			55+55+55+55		
	Heater Power	KW	21			31.0			39.2			49.0			52.1			73.1			80.0			113.0			184.2		
	Hopper Capacity	Kg	100			100			162			160			200			200			200			200			200		
	Oil Tank Capacity	L	720			900			1300			1500			2200			2500			2900			4100			4500		
	Machine Dimension(L×W×H)	m	746×1.62×2.45			8.42×1.78×2.6			9.9×2.35×2.72			10.8×2.72×2.75			12.1×2.88×3.54			13.7×3.2×3.64			15.6×3.5×3.7			17.5×3.9×4			20.2×4.17×4.33		
Machine Weight	T	13.6			20.3			32.0			46.0			55.0			69.0			118.0			136.0			210.0			



DREAM SERIES

SPECIFICATION

		unit	D60			D80			D100			D130			D160			D200			D250			D300			D350		
			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	25	28	32	28	32	35	35	38	42	38	42	45	42	45	50	45	50	55	50	55	60	55	60	65	60	65	70
	Screw L/D Ratio	L/D	22.4	20.0	17.5	22.9	20.0	18.3	21.7	20.0	18.1	22.1	20.0	18.7	21.4	20.0	18.0	22.2	20.0	18.2	22.0	20.0	18.3	21.8	20.0	18.5	21.7	20.0	18.6
	Theoretical Shot Volume	cm³	62	78	101	89	116	139	168	198	242	221	271	311	287	329	406	358	442	535	497	601	715	656	780	916	845	992	1151
	Injection Weight(PS)	g	56	71	92	81	105	126	153	180	220	202	246	283	261	300	370	326	402	486	452	547	651	597	710	833	769	903	1047
	Injection Pressure	cm³/s	246.4	196.4	150.4	251.1	192.3	160.7	227.9	193.3	158.2	232.7	190.5	165.9	212.8	185.4	150.2	237.9	192.7	159.3	224.0	185.1	155.6	229.1	192.5	164.0	226.3	192.8	166.3
	Injection Rate into Air	cm³/s	92.3/113.6	115.8/142.5	151.3/186.2	90.6/111.5	18.3/145.6	141.6/174.2	99.8/122.9	117.7/144.9	143.8/177.0	120.3/150.4	147.0/183.8	168.8/210.9	131.6/164.5	151.1/188.8	186.5/233.1	147.1×183.9	181.6/227.0	219.8/274.7	195.3/224.0	236.3/271.0	281.3/322.5	219.0/275.0	260.6/327.3	305/384.1	278.4/317.1	326.7/372.1	378.9/431.6
	Injection Stroke	bar	126			144			175			195			207			225			253			276			299		
	Injection Speed	mm	18.8/23.2			14.7/18.1			10.4/12.8			10.6/13.3			9.5/11.9			9.3/11.6			10.0/11.4			9.2/11.6			9.9/11.2		
CLAMPING UNIT	Screw Speed	rpm	332/409			332/409			229/282			242/302			212/265			202/253			199/228			192/242			196/223		
	Clamping Force	KN	600			800			1000			1300			1600			2000			2500			3000			3500		
	Clamping Stroke	mm	330			330			360			430			480			540			550			650			690		
	Space Between Tie Bar	mm	320×320			320×320			360×360			420×420			470×470			530×530			580×580			630×630			680×680		
	Max.Mold Height	mm	330			330			380			460			530			560			600			650			700		
	Min.Mold Height	mm	120			120			150			160			200			220			250			250			280		
	Eject Stroke	mm	80			80			120			120			150			150			160			160			160		
	Eject Force	KN	28			28			34			34			3			67			67			67			67		
OTHERS	No.Of Ejector Pins	piece	1			1			5			5			5			9			9			13			13		
	Max. Pump Pressure	Mpa	17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5		
	Pump Motor Power	KW	11/15			11/15			11/15			15/18.5			15/18.5			1.5/22			22/30			30/33.5			33.5/37		
	Heater Power	KW	4.5			5.2			6.3			9.1			9.4			11.8			14.7			17.4			20.2		
	Hopper Capacity	Kg	25			25			25			25			25			50			50			50			50		
	Oil Tank Capacity	L	200			200			250			300			350			400			550			700			750		
Weight	T	2.7			2.8			3.2			4.4			5.2			6.7			8.2			10.2			12			

		unit	D400			D450			D500			D600			D650			D700			D800			D900			D1050		
			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	65	70	75	70	75	80	75	80	85	80	85	90	80	85	90	85	90	100	90	100	110	90	100	110	100	110	120
	Screw L/D Ratio	L/D	23.7	22.0	20.5	23.6	22.0	20.6	23.5	22.0	20.7	23.4	22.0	20.8	23.4	22.0	20.8	23.3	22.0	19.8	24.4	22.0	20.0	24.4	22.0	20.0	24.2	22.0	20.2
	Theoretical Shot Volume	cm³	1161	1347	1546	1515	1740	1979	1785	2031	2292	2243	2532	2839	2243	2532	2839	2681	3006	3711	3276	4045	4894	3276	4045	4894	4320	5227	6220
	Injection Weight(PS)	g	1057	1226	1407	1379	1583	1801	1624	1848	2086	2041	2304	2583	2041	2304	2583	2440	2735	3377	2981	3681	4454	2981	3681	4454	3931	4756	5661
	Injection Pressure	cm³/s	221.8	191.3	166.6	212.1	184.8	162.4	216.5	190.3	168.6	220.4	195.2	174.1	220.4	195.2	174.1	217.0	193.6	156.8	231.1	187.2	154.7	231.1	187.2	154.7	220.2	181.9	152.9
	Injection Rate into Air	cm³/s	284.0/323.5	329.4/375.2	378.2/430.7	338.2/412.5	388.3/473.5	441.8/538.7	404.1/433.7	459.8/493.5	519.0/557.1	426.1/518.8	481.1/585.5	539.3/656.6	426.1/518.8	481.1/585.5	539.3/656.6	526.8/564.5	590.6/632.8	729.2/781.3	568.0/623.6	701.3/769.8	848.5/931.5	568.0/623.6	701.3/769.8	848.5/931.5	654.5/794.9	791.9/961.8	942.4/1144.7
	Injection Stroke	bar	350			394			404			446			446			473			515			515			550		
	Injection Speed	mm	8.6/9.8			8.8/10.7			9.2/9.8			8.5/10.3			8.5/10.3			9.3/10.0			8.9/9.8			8.9/9.8			8.3/10.1		
CLAMPING UNIT	Screw Speed	rpm	175/199			189/231			165/178			158/193			158/193			128/137			108/119			108/119			91/110		
	Clamping Force	KN	4000			4500			5000			6000			6500			7000			8000			9000			10500		
	Clamping Stroke	mm	750			800			840			900			940			980			1050			1130			1230		
	Space Between Tie Bar	mm	730×730			780×780			820×820			880×880			920×920			960×960			1020×1020			1080×1080			1160×1160		
	Max.Mold Height	mm	750			780			800			900			940			980			1020			1100			1160		
	Min.Mold Height	mm	280			300			320			400			400			400			450			500			500		
	Eject Stroke	mm	200			200			200			260			260			260			300			300			350		
	Eject Force	KN	124			124			124			182			182			182			182			182			269		
OTHERS	No.Of Ejector Pins	piece	13			17			17			21			21			21			21			21			21		
	Max. Pump Pressure	Mpa	17.5			17.5			17.5			17.5			17			17.5			17.5			17.5			17.5		
	Pump Motor Power	KW	33.5/37			37/45			45/55			55/60			55/60			60/62.5			66/75			66/75			75/88		
	Heater Power	KW	24.2			28.3			32.6			36			36			39.2			49.2			49.2			58.2		
	Hopper Capacity	Kg	50			50			50			100			100			150			150			150			200		
	Oil Tank Capacity	L	800			850			1000			1050			1050			1400			1400			1400			1700		
Weight	T	14.4			16.5			19			23.3			26.5			28.5			35			42			48			

Due to continuous improvements, we reserve the right to amend any aspect of the above specifications without notice.



Standard Function

Injection Unit

Double cylinder injection system
High quality barrel and screw
Open nozzle
Movable steel hopper for easy remove material
Double cylinder nozzle move (export standard function)
Multi stages of speed, pressure and position for injection
Multi stages of speed, pressure and time for hold on
Multi stages of speed, pressure and time for charge
Position or time hold on changeover
Injection cushion monitoring
Screw position transducer control
Prevent the screw cold start
Nozzle cover
Three model for charge
Automatic purging
Anti-slip aluminum cover
Low speed, high torque screw drive motor
Suck back function
Mechanical support to barrel (650ton up)
Barrel swiveling .easy screw change (1800ton up)
Close loop barrel temperature control
Water cooling for hopper throat
Back pressure adjust
Barrel cover to prevent heat damager
Nozzle center adjust
Screw RPM show

Accessories for export delivery

Adjustable machine leveling pads
Easily damaged spare parts
Professional tools
Extended nozzle
Clamp clip
English operation manual

Clamping Unit

Five points double toggle clamping unit
Transducer for mold open and close position
Box model platen, T-Slot (Export special order)
Euro- standard ejector hole (Export special order)
Mechanical safety device
Multi stages of mold open speed, pressure and position
Multi stages of mold close speed, pressure and position
Multi ejector model
Ejector position transducer
Wear- resistant supporting tracks for moving platen
Water flow regulator for mold
Auto centering lubrication system
Fast mold close (188ton up)
Adjustable moving platen support
Balanceable moving platen support (650ton up)
Excellent alloy steel tie bar
Automatic mold height adjustment
Euro map robot assemble face
Low pressure mold protection

Hydraulic Part

Oil temperature control and alarm
Oil tank level and alarm
Oil suck filter and air filter system

Electronics Part

Technique parameter pre-setting
Unattended running operation lock
8" LCD color screen Techmation computer (10" for 650ton up)
80 sets of mold memory
Molding condition monitoring with alarm
Barrel temperature monitoring and thermocouple break alarm
Electric motor safety protection
System hardware I/O testing function
Emergency stop safeguard device
Alarm lamp

Optional Device

Rotation unload device
Robot interface of Euromap 12 or 67
Interface for printer and floppy driver
Wide range of injection unit for specific applications
Wide selection of special plasticizer subassembly for specific customer applications
Special material screw and barrel
Extended, spring and hydraulic shut off nozzle
Multi- loop hydraulic system
Accumulator fast injection
High sensitive hydraulic mold protect fittings
Hydraulic Core pull device
Air blast device
Glass water regulations
By-pass oil filter
Automatic hydraulic safety door
Magnet for hopper
Self seal suck filter
Photoelectric check for mold
Monitor and control at far way in Internet
Hydraulic rotated dropping
Nozzle temperature controller
Hydraulic oil tank magnet
Water- saving valve
Proportional back pressure

Auxiliary Equipments

Injection mold with hot runner & cold runner construction	Robot
High pressure accumulator assistant injection system	Belt Conveyers
Dehumidifying dryer	PET dehumidifying dryer system
Combination of drying, dehumidifying and conveying	Cooling tower
Hopper dryer	Mold temperature controller
Vacuum auto loader	Power auto loader
Strong Crusher	Slow speed crusher
Color Mixer	Color dose mixer(Single & Double)
Air cooling Chiller	Water cooling chiller
Hopper magnet	Air compressor

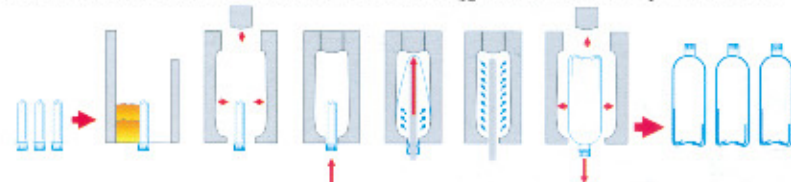


Automatic PET bottle blow molding machine



- ④ Automatic preform input and ready bottle output system.
- ④ Machine adopt with the overall structure of super-standard anti-vibration design, high-speed operation state of the machine will shake down to a minimum, and ensure that the life of components using will not affected from mechanical vibrations.
- ④ Machine adopts modular assembly methods, greatly decrease the local amendments due to technological improvements when the machine is on processing.
- ④ Automation controlling item adopts international high-end computer system, heating, collecting and measuring preform temperature with simulation input and outut module.
- ④ Man-machine interface displays current production situation, available for on line switching, parameter modification and production accounting, with automatic alarm, automatic fault detection and diagnose/function.
- ④ Storing more than 7 kinds specification for making bottle, we can directly choose the ready specification from computer when change different bottle and perform.
- ④ Adopt latest international air pneumatic, the high flow blowing and exhausting system, ensure machine high-speed operation.
- ④ In order to save air, we choose high pressure blowing exhaust recovery system, which can save energy by 10-15%.

PROCESS OF AUTOMATIC STRETCHING AND BLOWING PET /PP BOTTLE



TECHNICAL SPECIFICATIONS

Items	General Information	JG-1C2L	JG-2C2L	JG-4C2L	JG-1C5L	JG-2C5L
Container	Theoretical Output	1500 pcs/hr	2500pcs/hr	4000pcs/hr	700pcs/hr	1300pcs/hr
	Max.container volume	1.5-2 L	1.5-2 L	1.5-2 L	5L	5L
	Max.neck diameter	50mm	50mm	50mm	80mm	80mm
	Max.container diameter	100mm	100mm	100mm	175mm	175mm
	Max.container height	340mm	340mm	340mm	350mm	350mm
	Number of cavity	1 Cavity	2 Cavity	4 Cavity	1 Cavity	2 Cavity
Electrical System	Total power	20kw	25kw	35kw	35kw	40kw
	Use Power	21kw	15kw	21kw	20kw	25kw
Air System	Working Pressure	1.0Mpa	1.0Mpa	1.0Mpa	1.0Mpa	1.0Mpa
	Low Pressure Consuming	1600L/min	1400L/min	1600L/min	1600L/min	1600L/min
	Blow Pressure	≤3.5Mpa	≤3.5Mpa	≤3.5Mpa	≤3.5Mpa	≤3.5Mpa
	High Pressure Consuming	1000 L/min	1200L/min	2400L/min	2400L/min	2400L/min
Chiller Water	Opreating Pressure	0.3-0.5Mpa	0.3-0.5Mpa	0.3-0.5Mpa	0.3-0.5Mpa	0.3-0.5Mpa
	Temperature	10-12℃	10-12℃	10-12℃	10-12℃	10-12℃
	Flow Rate	20 L/min	30L/min	45L/min	40L/min	45L/min
Machine Data	Machine Dimension	1.8*1.5*2.0m	1.9*1.6*2.0m	2.5*2.0*2.0m	2.4*1.9*2.0m	2.5*2.0*2.0m
	Feeding Machine Dimension	2.0*1.0*2.0m	2.0*1.0*2.0m	2.0*1.0*2.0m	2.0*1.0*2.0m	2.0*1.0*2.0m
	Total Machine Weight	1900kgs	2000kgs	2500kgs	2200kgs	2700kgs

Semi-Automatic PET bottle blow molding machine



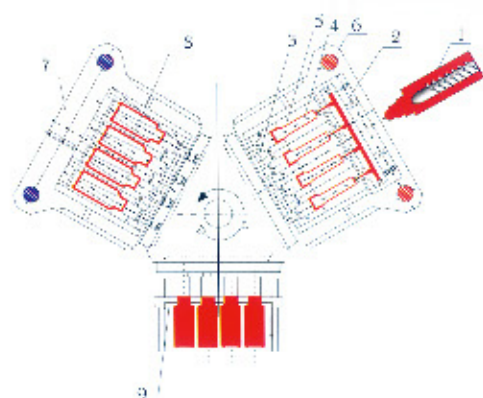
Semi-automatic bottle blow molding machine can produce PET containers including the bottles for kinds of wine, drink, soylean, vinegar, and pesticide(less than 1-20liters) according to the different bottle shape and diameter. It has automobile system with high efficiency. The distant infrared ray heat pipe are used in the machine, It has high pressure protection with the feature of precisely removing mould, The machine has no noise, It is easy to maintain, It's the equipment for producing PET bottles.

MAIN TECHNICAL FEATURES

GENERAL INFO	SG2L	SG6L	SG8L	SG20L
Theoretical output	700-1500PCS/hr	600-900PCS/hr	450-750PCS/hr	60-120PCS/hr
Heating capacity	9.8kw	12kw	12kw	35kw
Max bottle volume	4L(1 cavity)	6.0L(1 cavity)	8.0L(1 cavity)	20L(1 cavity)
	2L(2 cavity)			
Blowing pressure	≤3.5Mpa	≤3.5Mpa	≤3.5Mpa	≤3.5Mpa
Motion Pressure	≤1.0Mpa	≤1.0Mpa	≤1.0Mpa	≤1.0Mpa
Max*diameter*height	Ø 140XH340mm	Ø 260XH430mm	Ø 180X H 370mm	Ø 280XH450mm
Mould thickness	120~220mm	160~260mm	160~220mm	300~400mm
Weight	850kg	1500kg	1000kg	1500kg
Main blowing Machine	1400*600*1600mm	1860*710*1700mm	1700*600*1700mm	2200*700*2250mm
Heater	1750*600*1450mm	2500*650*1450mm	2000*650*1450mm	2200*700*1700mm



Injection Blow Molding Machine



- | | |
|---------------------------------------|----------------------|
| 1. Stock Preparation/injection Device | 6. Injection Station |
| 2. Hot Runner | 7. Blow Station |
| 3. Core Rod | 8. Blow Molding |
| 4. Bottle preform | 9. Stripping Station |
| 5. Injection Mold | |



Main Specifications

Parameter	Unit	GT30	GT45	GT60
Dia.of screw	mm	40	45	50
Screw L/D		20	22	22.5
Shot volume	cm ³	200	325	430
Injection weight	g	142	250	310
Injection pressure	Mpa	175	167	161
Max.screw stroke	mm	165	210	220
Max.screw speed	rpm	10-225	10-235	10-235
Heating capacity	Kw	7.5	8.5	13
No. of heating zone	Qty	3	3	3
Clamping & blowing system				
Clamping force of injection	KN	300	400	600
Clamping force of blowing	KN	43	150	150
Opening stroke of mold platen	mm	120	120	140
Lifign height of rotary table	mm	60	60	75
Max.platen size (L×W)	mm	350×240	580×390	780×390
Min.mould thickness	mm	180	240	280
Heating capacity of mould	Kw	1.2~2.5	2.5	5
Stripping system				
Stripping stroke	mm	180	210	220
Driving system				
Motor power	Kw	15	22	30
Hydraulic pressure	Mpa	14	14	14
Product range				
Suitable bottle range	L	0.005~0.8	0.015~0.8	0.015~0.85
Max.bottle height	mm	≤170	≤200	≤200
Max.dia.of bottle	mm	≤100	≤100	≤120
Other				
Dry cycle	Second	6	5	5
Min.air pressure	Mpa	1.2	1.2	1.2
Discharge rate of compressed air	m ³ /min	>0.8	>0.8	>0.8
Water flowage	m ³ /h	3	3.5	3.5
Total rated power with mould heating	Kw	22.56	32.1	47
Dimension(L×W×H)	m	3.1×1.3×2.3	3.85×1.7×2.3	4.2×1.9×2.4
Net weight	T	3.7	7.7	10.2

Note: Materials is suitable for majority kind of thermoplastic resin, such as HDPE, LDPE, PP, PS,EVA...
Cavity number of one mould corresponding to product volume.(For reference)

Characteristics

1. Apply the double vertical pole and single horizontal beam to make enough rotation space, longer bottles, make the mold installation easy and simple.
2. The injection mould adopts the double assistant cylinder open-close mould; ensure the stable and quick moving. The clamping force is three points equal distribution. High-speed hydraulic-added valve can increase the clamping speed.

Product Volume	8 ML	15 ML	20 ML	40 ML	60 ML	80 ML	100 ML
GT 30 's cavity quantity	7	6	5	4	4	3	3

Product Volume	15 ML	20 ML	40 ML	60 ML	100 ML	120 ML	200 ML
GT45 's cavity quantity	10	9	7	6	6	5	4
GT 60 's cavity quantity	16	14	14	12	10	9	6



PET Preform Series

Cap for mineral water/carbonated drinks / fruit drinks 28mm, 30mm, 38mm, 42mm neck



PET Preform for mineral water

Standard 28mm PCO neck			Standard 30MM Neck finish		
Model	Weight	Bottle volume	Model	Weight	Bottle volume
HX-2815	15g	250-350ml	HX-3014	14g	250-350 ml
HX-2818	18g	250-500 ml	HX-3015	15g	250-350 ml
HX-2820	20g	300-500 ml	HX-3017	17 g	300-500 ml
HX-2821	21g	300-500 ml	HX-3018	18 g	300-500 ml
HX-28 23	23g	300-500 ml	HX-3019	19 g	300-500 ml
HX-2824	24g	350-550 ml	HX-3022	22 g	350-550 ml
HX-2825	25g	350-600 ml	HX-3025	25 g	350-600 ml
HX-2828	28g	450-650 ml	HX-3028	28 g	450-650 ml
HX-2832	32g	500-700 ml	HX-3032	32 g	500-700 ml
HX-2835	35g	600-800 ml	HX-3034	34 g	600-800 ml
HX-2838	38g	700-1000 ml	HX-3038	38 g	700-1000 ml
HX-2840	40g	700-1200 ml			
HX-2845	45g	800-1300 ml			
HX-2848	48g	1000-1600 ml			
HX-2852	52g	1200-2000 ml			
HX-2858	58g	1500-2000 ml			
HX-2863	63g	1700-2200 ml			
HX-2869	69g	2000-2500 ml			

PET Preform for carbonated beverage and juice fruit

Standard 38MM Neck finish			Standard 42MM Neck finish		
Model	Weight	Bottle volume	Model	Weight	Bottle volume
HX-3822	22g	250-350 ml	HX-4233	33g	300-600 ml
HX-3825	25g	300-500 ml	HX-4237	37g	500-800 ml
HX-3828	28g	350-600 ml	HX-4250	50g	1000-1600 ml
HX-3830	30g	400-600 ml	HX-4260	60g	1300-2000 ml
HX-3833	33g	400-700 ml	HX-4282	82g	2000-2800 ml
HX-3835	35g	450-800 ml			
HX-3836	36g	500-900 ml			
HX-3838	38g	600-1000 ml			
HX-3842	42g	700-1300 ml			
HX-3848	48g	800-1500 ml			
HX-3853	53g	1000-1600 ml			
HX-3863	63g	1500-2200 ml			
HX-3870	70g	2000-2500 ml			
HX-3880	80g	2200-2800 ml			

PP Preform for juice fruit, milk of high temperature sterilization filling

28MM,38MM,40MM Neck finish		
Model	Preform (Gram)	Bottle volume(ML)
HX-PP2825	25	250-500
HX-PP2830	30	300-600
HX-PP3430	30	350-600
HX-PP3828	28	300-500
HX-PP4065	65	900-1800
HX-PP4069	69	1000-2000

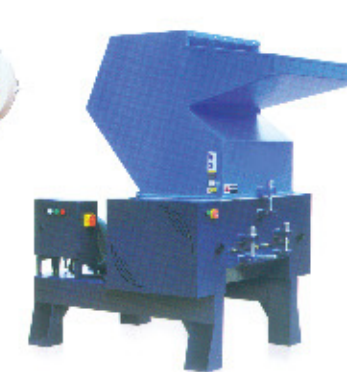
Downstream Equipment of Blow Molding machine & Injection Molding Machine



Auto Loader



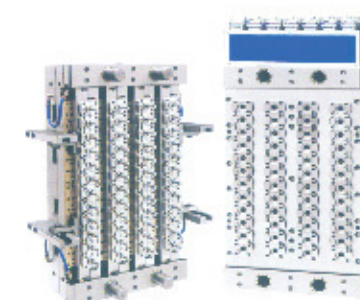
Hopper dryer



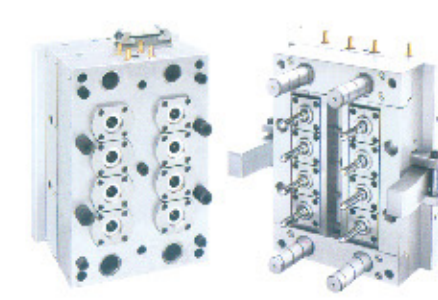
Crusher



Chiller



48 cavities pin-valve preform mould with hot runner



8 cavities pin-valve preform mould with hot runner



Cap mold with closed security-ring

