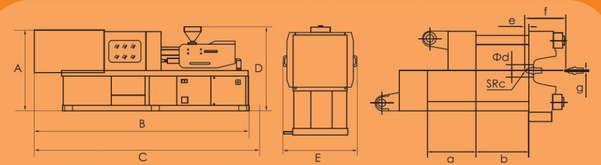

MACHINE DIMENSIONS

	A	B	C	D	E
LOG90-A8	1500	4000	4200	1700	1100
LOG110-A8	1550	4000	4200	1750	1150
LOG130-A8	1600	4200	4600	1800	1200
LOG160-A8	1700	4550	4950	2000	1250
LOG210-A8	1800	5250	5400	2030	1320
LOG250-A8	1850	5870	6200	2150	1460
LOG300-A8	1900	6200	6400	2160	1620
LOG320-A8	1980	6560	6800	2225	1630
LOG400-A8	2030	7600	8600	2350	1750
LOG500-A8	2070	8200	9200	2410	1850
LOG650-A8	2180	9300	9600	2250	1880
LOG800-A8	2270	10200	10600	2900	2300
LOG900-A8	2385	10700	11000	3100	2400
LOG1100-A8	2850	12000	12500	3500	2800
LOG1500-A8	2800	12800	13900	4700	3200
LOG1800-A8	2950	13500	14200	5100	3400
LOG2200-A8	3525	16800	17800	5300	3500

	a	b	c	d	e	f	g
LOG90-A8	320	150-360	10	100H8	30	250	3
LOG110-A8	350	150-380	10	100H8	30	250	3
LOG130-A8	380	150-430	10	100H8	30	250	3
LOG160-A8	430	180-500	10	100H8	30	250	3
LOG210-A8	480	200-550	10	120H8	30	325	3.5
LOG250-A8	550	200-580	10	120H8	30	325	3.5
LOG300-A8	570	200-600	10	150H8	30	360	3.5
LOG320-A8	615	250-670	10	150H8	30	360	3.5
LOG400-A8	660	250-730	10	150H8	30	450	4
LOG500-A8	780	300-820	10	150H8	30	450	5
LOG650-A8	920	350-910	10	170H8	30	550	5
LOG800-A8	1000	400-1000	10	250HB	50	690	5
LOG900-A8	1050	400-1100	10	250H8	50	690	5
LOG1100-A8	1150	450-1200	10	250H8	50	690	6.5
LOG1500-A8	1500	700-1400	10	250H8	50	710	6.5
LOG1800-A8	1600	700-1500	10	315H8	40	740	6.5
LOG2200-A8	1850	700-1700	10	315H8	50	950	7

Hallite — SEALING ELEMENTS

ABB — SINGLE-POLE,DOUBLE-POLE SWITCH

MIRLE / TECHMATION — CONTROLLER

HERG 河谷 — LUBRICATION PUMP

Rexroth Bosch Group — SERVO SYSTEM

novotechnik Siedle Group — ELECTRONIC RULER

YUKEN 油圧機器 — PROPORTIONAL VARIABLE PUMP

VICKERS EATON — DIRECTION VALVE

Telemecanique Schneider Electric — POSITION SWITCH A.C.CONTACTOR

LOG MACHINE

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LOG MACHINE

Injection molding machine

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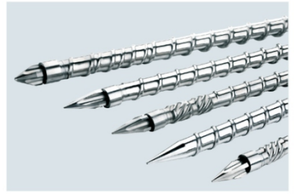
Providing solutions for all your Injection Molding needs



COMPANY INFO

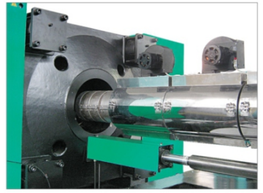
LOG Injection Molding manufactures a wide range of high-precision, plastic injection molding machines for diverse applications. We work with you to ensure we are providing the best molding solutions based on your application and business requirements. You can count on us for advanced technology, application expertise, and after-sales support to help improve your overall injection molding productivity and profitability.

Machine Models



A8 series Yuken variable displacement hydraulic pump
S8 series Rexroth servo motor
PET preform dedicated machine
PMMA/PVC/PC/PS dedicated machine
Cap-dedicated machine
Electro-hydraulic high-speed machine
Bakelite machine

Bottle Caps Pen Bodies Electric Parts CPVC Fittings
Medical Syringes Food Containers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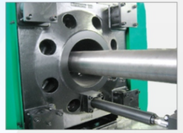
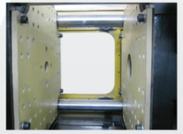
Control System

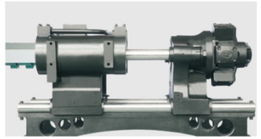
- Professional injection molding machine controller with software and hardware meeting industrial standards. Convenient to the expansion and improvement of performance;
- Double CPU enables control for high speed performance.
- Network capability allows for improved machine/process management.
- PID control with accuracy reaching ±1°






INJECTION UNIT

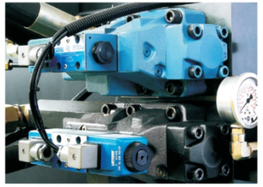


These units use a double-cylinder system to ensure steady injection into the mold. The optimized screw design provides better plasticating capacity and injection capacity. To provide better life and operating performance both the screw and barrel are constructed of high-grade allow steel that is heat treated and then vacuum nitrided to provide excellent wear and hot burn-out resistance.

CLAMPING UNIT

Fast and steady moving platen motion is the result of a new generation of mold-locking toggle and computer-simulation optimized control parameters. High strength and long machine life are ensured through the use of the box structure made up of the moving and stationary platens, tie bars and toggle. Due to the design of this box structure, LOG molding machines have a larger open area compared to similar products

HYDRAULIC UNIT



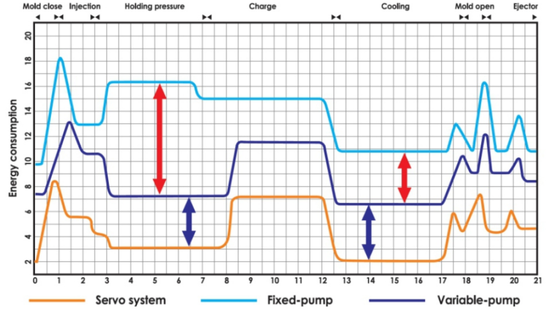
These molding machines are equipped with variable displacement hydraulic pumps. When compared to fixed output pumps, these can save 30-60% in electric consumption. Combined with a hydraulic buffering valve, our variable displacement pumping system provides smooth starting and stopping of the moving plate, along with efficient clamping force on the toggle.

SERVO CONTROL SYSTEM

Only 60ms is required to reach the maximum output compared with the fixed and variable displacement pumps which significantly shortens the cycle time and improves production efficiency. By means of the precise pressure sensor and rotary encoder, the high repetition closed loop control system ensures the stability of product quality. When the clamp is at full-open or full-closed the servo reduces its flow output while retaining pressure Due to its style of operation, servo motors can save 40-80% in electrical consumption, reduce overall noise levels and oil temperature compared to fixed or variable displacement pumps. All these benefits prolong the service life of the hydraulic fluid and sealing parts.

VDP PUMP

Compared to fixed displacement ones, variable displacement pumps (VDP) generate the appropriate amount of flow and pressure for smooth operation across the full stroke of the machine. Benefits of these VDPs include 30-60% energy savings and lower oil temperature which prolongs the service life of the fluid and sealing elements.



Injection molding machine
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Pet preform dedicated machine specifications

DESCRIPTION \ MODEL		LOG160	LOG210	LOG250	LOG300	LOG320	LOG400	LOG500	LOG650
Injection									
Screw diameter	mm	50	55	65	70	75	90	95	100
Screw L/D ratio	-	23:1	23:1	23:1	24:1	24:1	24:1	24:1	24:1
Injection volume	cm^3	392	569	863	1077	1414	2290	2550	3376
Shot weight(pet)	g	478	676	1020	1274	1670	2710	3115	3990
	oz	12.9	18.1	27.4	34.2	44.9	72.8	83.9	107.5
Max injection rate	cm^3/s	172.8	200	297	382	416	514	573	656
Plasticizing rate	kg/h	152	183	227	241	312	425	439	575
Injection pressure	mpa	135	145	132	130	133	125	127	138
Screw stroke	mm	200	240	260	300	320	360	360	430
Screw speed	r/min	0-180	0-200	0-180	0-150	0-150	0-135	0-150	0-125
Clamping									
Clamping force	kn	1600	2100	2500	3000	3200	4000	5000	6500
Opening stroke	mm	430	480	520	570	615	670	780	920
Platen size	mmxmm	680x680	745x745	820x790	870x850	945x945	1060x1040	1180x1180	1320x1290
Space between tie bars	mmxmm	460x460	510x510	560x530	610x590	660x660	730x710	830x830	930x900
Mold thickness	mm	180-500	200-550	200-580	200-600	250-670	250-730	300-820	350-910
Max.daylight	mm	930	1030	1100	1170	1285	1400	1600	1830
Ejector stroke	mm	140	150	150	160	160	185	210	265
Ejector force	kn	50	67	67	77	77	111	111	182
General data									
Max oil pressure	mpa	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Pump motor	kw	15	18.5	22	30	30	37	45	55
Heating power	kw	17.2	17.4	20.4	22.5	26.3	36.1	43.2	47.3
Heating zones	-	4+nozzle	4+nozzle	5+nozzle	5+nozzle	5+nozzle	5+nozzle	5+nozzle	6+nozzle
Dry cycle time	sec	2	4.5	4.8	5	5	5.1	5.2	6
Oil tank capacity	L	210	310	380	380	500	820	1150	1500
Machine dimension	mxmxm	5.5x1.25x2.0	5.7x1.32x2.1	6.8x1.6x2.15	6.8x1.5x2.18	7.1x1.58x2.25	7.9x1.75x2.41	8.6x1.85x2.41	9.6x1.9x2.3
Machine weight	kg	4720	6500	8000	9100	12500	14970	20500	36000

High-speed injection machine specifications

DESCRIPTION \ MODEL		LOG130	LOG160	LOG210	LOG250	LOG300	LOG320
Injection							
Screw diameter	mm	38	45	50	50	50	65
Screw L/ D ratio	-	24:1	24:1	24:1	24:1	24:1	24:1
Injection volume	cm^3	181	302	392	392	392	863
Shot weight (PP)	g	149	240	322.4	322.4	322.4	687.6
Max injection rate	cm^3/s	136.8	281	297.2	356.6	356.6	513.2
Plasticizing rate(PP)	kg/h	49	90	139	152.8	152.8	183.6
Injection pressure	mpa	152	138	135	135	135	132
Screw speed	r/min	0—290	0—276	0—409	0—495	0—495	0—364
Clamping							
Clamping force	kn	1300	1600	2100	2500	3000	3200
Opening stroke	mm	380	430	480	520	570	615
Platen size	mmxmm	610x610	680x680	745x745	820x790	870x850	945x945
Space between tie bars	mmxmm	410x410	460x460	510x510	560x530	610x590	660x660
Mold thickness	mm	150-430	180-500	200-550	200-580	200-600	250-670
Ejector stroke	mm	120	140	150	150	160	160
Ejector force	kn	42	50	67	67	77	77
General data							
Max oil pressure	mpa	17.5	17.5	17.5	17.5	17.5	17.5
Pump motor	kw	15	22	30	37	37	22+22
Heating power	kw	8.1	9.6	15.7	15.7	15.7	20
Heating zones	-	3+1	4+1	4+1	4+1	4+1	4+1
Dry cycle time	sec	4.0	4.0	4.5	4.5	4.5	5.0
Oil tank capacity	L	210	380	500	820	820	1150
Machine dimension	mxmxm	4.6x1.2x1.8	4.95x1.25x2.0	5.4x1.32x2.1	6.2x1.46x2.15	6.4x1.63x2.25	8.6x1.85x2.35
Machine weight	kg	3450	4600	6350	7820	8900	12250

A8/S8 series configuration table

Injection Unit
Double cylinder injection system
High quality barrel and screw
Multi stages of speed pressure and position for injection, holding on and charging
Position or time control changeover
Screw position electronic ruler control
Prevent the screw cold start
Close loop barrel temperature control
Nozzle center adjust
Stainless steel hopper
Water cooling for hopper throat

Clamping Unit
Five points double toggle clamping unit
Electronic ruler for mold open and close position
Mechanical safety device
Multi stage of mold open/close speed, pressure, and position
Fast mold close
Automatic mold height adjustment
Low pressure mold protection
Box model platen: T slots
Auto centering lubrication system

Hydraulics
Proportional pressure and speed control
Oil filter
Oil temperature control and alarm
By-pass oil filter

Electronics
High-definition display
200 sets of mold memory
Barrel temperature monitoring and thermocouple break alarm
System hardware I/O testing function
Interface for printer and floppy driver
Electric motor safety protection
Emergency stop safeguard device

Accessories
Adjustable machine leveling pads
Wearing parts
Professional tools

Optional Devices
Wide selection of special plasticized parts for specific plastic material
Special screw, high-mixer screw, surface strengthen screw
Accumulator fast injection
Core pulling device
Air blast device
Extended nozzle/spring nozzle
Pressure sensor to control injection pressure
SSR contactor
Double moving cylinder
Nozzle safety cover

Specifications

For continual improvement our company reserves the right to change design parameters and configurations with no notice given for any change.

Injection molding machine
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DESCRIPTION \ MODEL		LOG90			LOG110			LOG130			LOG160			LOG210			LOG250			LOG300			LOG320			LOG400			LOG500			LOG650			LOG800			LOG900				LOG1100				LOG1500				LOG1800			LOG2200			
Injection		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	A	B	C	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	A	B	C	D
Screw diameter	mm	30	35	38	35	38	42	38	42	45	42	45	50	45	50	55	50	58	65	58	65	70	65	70	75	70	80	90	75	85	95	80	90	100	85	95	105	90	100	110	120	100	110	120	130	110	120	130	140	130	140	150	150	160	170	185
Screw L/D ratio	-	22:1	20:1	18:1	22:1	20:1	18:1	22:1	20:1	18:1	22:1	20:1	18:1	22:1	20:1	18:1	22:1	21:1	18.7:1	22:1	22:1	20:1	22:1	21:1	19.6:1	22:1	21:1	19:1	22:1	21:1	18.7:1	22:1	21:1	19:1	24.5:1	22:1	20:1	22:1	22:1	20:1	18.3:1	22:1	22:1	20.2:1	18.6:1	26.2:1	24:1	22.2:1	20.6:1	24:1	22.3:1	20.8:1	23.5:1	22:1	20.7:1	22:1
Injection volume	cm^3	113	154	181	163	192	235	215	263	302	277	318	392	381	470	569	510	687	863	740	929	1077	1062	1231	1414	1385	1810	2290	1590	2042	2550	2160	2734	3376	2558	3195	3903	3179	3925	4750	5652	4123	4989	5938	6968	5464	6503	7632	8851	8495	9852	11310	13183	15000	16933	24192
Shot weight(ps)	g	106	144	170	148	175	213	196	239	274	260	298	368	347	429	520	464	625	785	673	845	980	966	1120	1286	1260	1646	2084	1494	1919	2397	1966	2488	3072	2327	2907	3552	2893	3571	4321	5143	3751	4540	5403	6340	4972	5918	6945	8054	7730	8965	10292	12043	13700	15468	22075
	oz	4	5	6	5	6	8	7	8	10	9	11	13	12	15	18	16	22	27	24	30	34	34	39	45	44	58	73	52	67	84	67	87	108	81	101	124	103	127	153	182	133	161	191	225	176	210	246	285	274	318	365	422	480	542	774
Max injection rate	cm^3/s	59	80	95	82	97	118	97	118	163	122	140	172	133	165	200	175	236	297	262	330	382	313	362	416	311	406	514	357	459	573	420	531	656	515	610	700	540	666	806	960	702	850	1010	1186	782	931	1092	1267	1128	1308	1502	1335	1519	1715	1700
Plasticizing rate	kg/h	22	36	45	36	46	60	46	60	75	65	81	116	82	117	141	103	139	174	120	150	185	170	210	240	167	231	327	188	256	338	254	340	442	272	355	472	291	378	503	600	378	503	600	767	380	453	532	578	500	543	594	43.97	50.03	56.47	61.94
Injection pressure	mpa	243	179	152	228	193	158	193	158	138	190	166	135	217	176	145	224	166	132	190	151	130	175	152	133	206	158	125	204	159	127	215	170	138	218	175	143	227	184	152	128	220	182	153	130	200	168	143	123	164	142	123	186	164	145	153
Screw speed	r/min	0-180			0-180			0-180			0-200			0-200			0-180			0-150			0-170			0-135			0-125			0-140			0-130				0-120				0-120				0-95				0-80			0-80	0-80	0-80	0-60
Clamping																																																									
Clamping force	kn	900			1100			1300			1600			2100			2500			3000			3200			4000			5000			6500			8000				9000				11000				15000				18000			22000			
Opening stroke	mm	320			350			380			430			480			520			570			615			710			820			920			1000				1050				1150				1500				1610			1850			
Platen size	mmxmm	540x540			600x550			610x610			680x680			745x745			820x790			870x850			945x945			1060x1040			1180x1180			1320x1290			1450x1385				1530x1530				1650x1650				2090x2050				2230x2100			2450x2300			
Space between tie bars	mmxmm	360x360			405x370			410x410			460x460			510x510			560x530			610x590			660x660			730x710			830x830			930x900			1030x940				1080x1030				1150x1100				1450x1350				1550x1430			1750x1600			
Mold thickness	mm	150-360			150-380			150-430			180-500			200-550			200-580			200-600			250-670			250-730			300-820			350-910			400-1000				400-1100				450-1200				700-1400				700-1500			700-1700			
Ejector stroke	mm	100			100			120			140			150			150			160			160			185			210			265			300				300				350				350				400			420			
Ejector force	kn	31			42			42			50			67			67			77			77			111			111			182			200				270				270				318				318			500			
General data																																																									
Max oil pressure	mpa	16			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			16				17.5				17.5				16				16			17.5			
Pump motor	kw	9			11			11			15			18.5			22			22			30			37			22+22			22+30			30+37				37+37				45+45				37+37+37				37+37+30+30			55+55+55			
Heating power	kw	6.5			7.5			7.7			12.6			13.1			16			18			21.5			32.3			35.4			38.3			49				58.45				68.48				85.55				95.05			100			135
Heating zones	-	3+nozzle			4+nozzle			4+nozzle			4+nozzle			4+nozzle			4+nozzle			5+nozzle			5+nozzle			5+nozzle			5+nozzle			6+nozzle			6+nozzle				6+nozzle				6+nozzle				6+nozzle				6+nozzle			7+nozzle			
Dry cycle time	sec	1.1			1.3			1.3			2			4.5			4.8			5			5			5.1			5.2			6			7.0				8				10				14				18			18			
Oil tank capacity	L	160			200			200			210			310			380			380			500			820			1150			1500			1500				1900				2300				2900				3000			4100			4100
Machine dimension	mxmxm	4.2x1.1x1.7			4.2x1.2x1.8			4.6x1.2x1.8			4.95x1.25x2.0			5.4x1.32x2.1			6.2x1.46x2.15			6.4x1.6x2.18			6.8x1.63x2.25			8.6x1.75x2.35			9.25x1.85x2.0			9.6x1.9x2.3			10.6x2.6x2.7				11x2.4x3.1				12.5x2.8x3.5				13.9x3.2x4.7				14.2x3.4x5.1			17.5x4.2x3.7			18.5x4.8x4.3
Machine weight	kg	2800			3300			3550			4720			6500			8000			9100			12500			14970			20500			36000			36000				48000				60000				82000				105000			136000			140000