



# Ningbo Mengkwa Machinery Co., Ltd.

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Fax: 0086-574-86827236, 87026377

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## Energy Saving Series Injection Molding Machine



### Technical Parameter:

Model		SE90			SE130			SE160			SE220			SE280		
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	32	36	40	36	40	45	40	45	50	45	50	55	55	60	65
Screw L/D Ratio	L/D	24.7	22	19.8	24.4	22	19.5	24.7	22	19.8	24.4	22	20	24	22	20.3
Shot Size (Theoretical)	cm <sup>3</sup>	126	160	197	194	240	303	276	350	432	405	500	650	638	760	890
Injection Weight (PS)	g	115	146	179	177	218	276	251	318	393	368	455	550	580	690	810
Injection Rate	g/s	75	95	117	99	122	155	119	151	187	147	182	220	215	255	330
Plasticizing Capacity	g/s	14.2	18	22.2	18	22.2	28.1	19.8	25	30.9	24	29.6	35.8	31.8	37.8	44.3
Injection Pressure	MPa	234	185	150	222	180	142	227	180	145	222	180	148	214	180	153
Screw Speed	rpm	0---245			0---225			0---225			0---190			0---185		
Clamp Tonnage	KN	900			1300			1600			2200			2800		
Toggle Stroke	mm	320			350			450			500			550		
Space Between Tie Bars	mm	360x360			410x410			455x450			515x510			580x580		
Max.Mold Height	mm	330			430			500			520			580		
Min.Mold Height	mm	110			130			150			165			200		
Ejector Stroke	mm	90			110			110			160			160		
Ejector Tonnage	KN	28			35			35			65			65		
Ejector Number	PC	5			5			5			9			9		
Max. Pump Pressure	MPa	16			16			16			160			16		
Pump Motor Power	Kw	11			15			18.5			222			30		
Heater Power	Kw	6.5			8.75			9.84			12.73			16.9		
Machine Dimension(LxWxH)	m	4.2x1.2x1.6			4.6x1.3x1.7			5.2x1.3x1.8			5.7x1.5x1.9			6.2x1.5x2.0		
Machine Weight	T	3.3			3.7			5.2			7.0			9.0		
Hopper Capacity	Kg	25			25			25			50			50		
Oil Tank Capacity	L	220			236			306			380			500		



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## Technical Parameter:

Model		SE330			SE380			SE480			SE580			SE680		
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	60	65	70	65	70	75	40	45	50	80	85	90	85	90	100
Screw L/D Ratio	L/D	21.6	20	18.5	23.7	22	20.5	24.7	22	19.8	23.4	22	20.8	23.3	22	19.8
Shot Size (Theoretical)	cm <sup>3</sup>	894	1050	1217	1164	1350	1550	276	350	432	2217	2502	2805	2502	2805	3464
Injection Weight (PS)	g	805	945	1095	1062	1232	1414	251	318	393	2023	2283	2560	2283	2560	3161
Injection Rate	g/s	262.4	308	357.2	331.3	384.3	441.1	119	151	187	440.2	497	557.1	486.1	545	672.8
Plasticizing Capacity	g/s	34.1	40	46.4	40.8	47.4	54.4	19.8	25	30.9	57.9	65.4	73.3	64.3	72.1	72.8
Injection Pressure	MPa	211	180	155	203	175	152	227	180	145	197	175	156	196	175	142
Screw Speed	rpm	0---200			0---180			0---160			0---180			0---160		
Clamp Tonnage	KN	3300			3800			4800			5800			6800		
Toggle Stroke	mm	600			680			730			830			930		
Space Between Tie Bars	mm	620×620			720×720			760×760			830×830			910×910		
Max.Mold Height	mm	650			720			750			820			900		
Min.Mold Height	mm	220			250			250			300			330		
Ejector Stroke	mm	160			200			250			250			280		
Ejector Tonnage	KN	65			110			125			125			200		
Ejector Number	PC	9			17			17			17			21		
Max. Pump Pressure	MPa	16			16			16			16			16		
Pump Motor Power	Kw	30			37			45			55.5			67		
Heater Power	Kw	18.5			23.15			29.2			32.65			36.45		
Machine Dimension(LxWxH)	m	7.0×1.8×2.1			7.0×1.9×2.1			8.7×2.0×2.1			10.4×2.2×2.2			11×2.3×2.3		
Machine Weight	T	13			19			22			31			37		
Hopper Capacity	Kg	50			50			50			100			100		
Oil Tank Capacity	L	620			1000			1250			1280			1280		



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## Technical Parameter:

Model		SE780			SE1000			SE1250			SE1500			SE1800		
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	90	100	110	100	110	120	110	120	130	120	130	140	130	140	150
Screw L/D Ratio	L/D	24.4	22	20	24.2	22	20.2	24	22	20.3	23.8	22	20.4	23.7	22	20.5
Shot Size (Theoretical)	cm <sup>3</sup>	3080	3800	4600	3802	4600	5482	5300	6300	7402	6398	7500	8708	8623	10000	11480
Injection Weight (PS)	g	2809	3468	4198	3473	4199	5003	4841	5755	6760	5842	6848	7951	7868	9135	10475
Injection Rate	g/s	545.9	674	815.5	663.6	803	955.6	798.2	950	1114.9	875.9	1028	1192.2	1004.5	1165	1337.3
Plasticizing Capacity	g/s	69.5	85.5	103.8	83.6	101.2	120.4	103.9	123.7	145.1	115.9	136.1	157.8	132	153.1	175.7
Injection Pressure	MPa	210	170	140	206	170	143	202	170	145	200	170	147	186	160	139
Screw Speed	rpm	0---150			0---130			0—120			0---100			0—80		
Clamp Tonnage	KN	7800			10000			12500			15000			18000		
Toggle Stroke	mm	1000			1150			1150			1260			1520		
Space Between Tie Bars	mm	985×985			1180×1180			1220×1100			1320×1200			1500×1480		
Max.Mold Height	mm	980			1100			1100			1400			1500		
Min.Mold Height	mm	350			400			500			600			650		
Ejector Stroke	mm	320			320			360			360			400		
Ejector Tonnage	KN	200			200			260			260			400		
Ejector Number	PC	21			21			21			25			25		
Max. Pump Pressure	MPa	16			16			16			16			16		
Pump Motor Power	Kw	74			89			104			120			133		
Heater Power	Kw	44.8			51.9			58.25			66.5			75.55		
Machine Dimension(LxWxH)	m	11.5×2.4×2.3			12.0×2.7×2.6			12.6×2.8×2.7			14.2×2.9×2.8			15.5×3.1×3.6		
Machine Weight	T	46			58			62			85			118		
Hopper Capacity	Kg	100			100			100			400			400		
Oil Tank Capacity	L	1800			2200			2500			2500			2900		



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## Technical Parameter:

Model		SE2200				SE2800	
		A	B	C	D	A	B
INJECTION UNIT							
Screw Diameter	mm	150	160	170	185	210	220
Screw L/D Ratio	L/D	23.5	22	20.7	22	22	22
Shot Size (Theoretical)	cm <sup>3</sup>	13183	15000	16933	24192	41200	45236
Injection Weight (PS)	g	12043	13700	15468	22075	37600	41278
Injection Rate	g/s	1335	1519	1714.8	1700	2000	2200
Plasticizing Capacity	g/s	158.3	180.1	203.3	223	280	300
Injection Pressure	MPa	170	150	133	140	155	141
Screw Speed	rpm	0---80		0---60		0—60	10---60
Clamp Tonnage	KN	22000				28000	
Toggle Stroke	mm	1750				1850	
Space Between Tie Bars	mm	1650×1620				1820×1620	
Max.Mold Height	mm	1600				1600	
Min.Mold Height	mm	700				700	
Ejector Stroke	mm	400				400	
Ejector Tonnage	KN	500				700	
Ejector Number	PC	29				29	
Max. Pump Pressure	MPa	16				16	
Pump Motor Power	Kw	153.5				220	
Heater Power	Kw	98.7		133.7		177	185.45
Machine Dimension(LxWxH)	m	17.5×4.2×3.7		18.5×4.8×4.3		18.5×3.7×3.6	
Machine Weight	T	136		140		195	
Hopper Capacity	Kg	400					
Oil Tank Capacity	L	4100					

web: www.mengkwa.com



**List of hydraulic elements , electric elements of SE90-SE220**

NO	NAME	BRAND
1	COMPUTER	TACHMATION
2	SERVO CONTROLLER	BOSCH-REXROTH
3	GEAR PUMP	BOSCH-REXROTH
4	SERVO MOTOR	BOSCH-REXROTH
5	DIRECTIONAL VALVE	BOSCH-REXROTH
6	HYFRAULIC MOTOR	INTERMOT OR DINAMIC
7	AIR BREAKER	CHNT
8	CONTACTOR	SCHNEIDER
9	THERMAL OVERLOAD RELAY	SCHNEIDER
10	LINEAR TRANSDUCER	VISHAY
11	LOCATION LIMIT SWITCH	NAIS
13	COMPACT SEALS	BUSAK-SHAMBAN

**Specialty:**

1. High precision control
2. Quick response
3. High sensitivity
4. Running in low noise
5. Energy economical and environmental protection
6. Energy saving can reach 20%-80%





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## FTN Series Injection Machine



### Technical Parameter:

Model		FT90			FT130			FT160			FT220			FT330			FT380		
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	32	36	40	36	40	45	40	45	50	45	50	55	60	65	70	65	70	75
Screw L/D Ratio	L/D	24.7	22	19.8	24.4	22	19.5	24.7	22	19.8	24.4	22	20	21.6	20	18.5	23.7	22	20.5
Shot Size (Theoretical)	cm <sup>3</sup>	126	160	197	194	240	303	276	350	432	405	500	650	894	1050	1217	1164	1350	1550
Injection Weight (PS)	g	115	146	179	177	218	276	251	318	393	368	455	550	805	945	1095	1062	1232	1414
Injection Rate	g/s	75	95	117	99	122	155	119	151	187	147	182	220	262.4	308	357.2	331.3	384.3	441.1
Plasticizing Capacity	g/s	14.2	18	22.2	18	22.2	28.1	19.8	25	30.9	24	29.6	35.8	34.1	40	46.4	40.8	47.4	54.4
Injection Pressure	MPa	234	185	150	222	180	142	227	180	145	222	180	148	211	180	155	203	175	152
Screw Speed	rpm	0-245			0---225			0—225			0---190			0---200			0---180		
Clamp Tonnage	KN	900			1300			1600			2200			3300			3800		
Toggle Stroke	mm	320			350			450			500			600			680		
Space Between Tie Bars	mm	360*360			410*410			455*450			515*510			620*620			720*720		
Max.Mold Height	mm	330			430			500			520			650			720		
Min.Mold Height	mm	110			130			150			165			220			250		
Ejector Stroke	mm	90			110			110			160			160			200		
Ejector Tonnage	KN	65			35			35			65			65			110		
Ejector Number	PC	28			5			5			9			9			17		
Max. Pump Pressure	MPa	16			16			16			160			16			16		
Pump Motor Power	Kw	11			15			18.5			222			30			37		
Heater Power	Kw	6.5			8.75			9.84			12.73			18.5			23.15		
Machine Dimension(LxWxH)	m	4.2 x 1.2 x 1.6			4.6*1.3*1.7			5.2*1.3*1.8			5.7*1.5*1.9			7.0*1.8*2.1			7.0*1.9*2.1		
Machine Weight	t	3.3			3.7			5.2			7.0			13			19		
Hopper Capacity	Kg	25			25			25			50			50			50		
Oil Tank Capacity	L	220			236			306			380			620			1000		



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## Technical Parameter:

Model		FT480			FT580			FT680			FT780			FT1000			FT1250		
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	75	80	85	80	85	90	85	90	100	90	100	110	100	110	120	110	120	130
Screw L/D Ratio	L/D	23.5	22	20.7	23.4	22	20.8	23.3	22	19.8	24.4	22	20	24.2	22	20.2	24	22	20.3
Shot Size (Theoretical)	cm <sup>3</sup>	1758	2000	2258	2217	2502	2805	2502	2805	3464	3080	3800	4600	3802	4600	5482	5300	6300	7402
Injection Weight (PS)	g	1605	1825	2060	2023	2283	2560	2283	2560	3161	2809	3468	4198	3473	4199	5003	4841	5755	6760
Injection Rate	g/s	373.5	425	480	440.2	497	557.1	486.1	545	672.8	545.9	674	815.5	663.6	803	955.6	798.2	950	1114.9
Plasticizing Capacity	g/s	53	60.3	68.1	57.9	65.4	73.3	64.3	72.1	72.8	69.5	85.5	103.8	83.6	101.2	120.4	103.9	123.7	145.1
Injection Pressure	MPa	199	175	155	197	175	156	196	175	142	210	170	140	206	170	143	202	170	145
Screw Speed	rpm	0—160			0---180			0---160			0---150			0---130			0—120		
Clamp Tonnage	KN	4800			5800			6800			7800			10000			12500		
Toggle Stroke	mm	730			830			930			1000			1150			1150		
Space Between Tie Bars	mm	760×760			830×830			910×910			985×985			1180×1180			1220×1100		
Max.Mold Height	mm	750			820			900			980			1100			1100		
Min.Mold Height	mm	250			300			330			350			400			500		
Ejector Stroke	mm	250			250			280			320			320			360		
Ejector Tonnage	KN	125			125			200			200			200			260		
Ejector Number	PC	17			17			21			21			21			21		
Max. Pump Pressure	MPa	16			16			16			16			16			16		
Pump Motor Power	Kw	45			55.5			67			74			89			104		
Heater Power	Kw	29.2			32.65			36.45			44.8			51.9			58.25		
Machine Dimension(LxWxH)	m	8.7×2.0×2.1			10.4×2.2×2.2			11×2.3×2.3			11.5×2.4×2.3			12.0×2.7×2.6			12.6×2.8×2.7		
Machine Weight	t	22			31			37			46			58			62		
Hopper Capacity	Kg	50			100			100			100			100			100		
Oil Tank Capacity	L	1250			1280			1280			1800			2200			2500		



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## Technical Parameter:

Model		FT1500			FT1800			FT2200				FT2800		FT3600	FT4000	
		A	B	C	A	B	C	A	B	C	D	A	B			
INJECTION UNIT																
Screw Diameter	mm	120	130	140	130	140	150	150	160	170	185	210	220	230	240	
Screw L/D Ratio	L/D	23.8	22	20.4	23.7	22	20.5	23.5	22	20.7	22	22	22	22	22	
Shot Size (Theoretical)	cm <sup>3</sup>	6398	7500	8708	8623	10000	11480	13183	15000	16933	24192	41200	45236	50270	56600	
Injection Weight (PS)	g	5842	6848	7951	7868	9135	10475	12043	13700	15468	22075	37600	41278	45870	51500	
Injection Rate	g/s	875.9	1028	1192.2	1004.5	1165	1337.3	1335	1519	1714.8	1700	2000	2200	2400	2750	
Plasticizing Capacity	g/s	115.9	136.1	157.8	132	153.1	175.7	158.3	180.1	203.3	223	280	300	320	370	
Injection Pressure	MPa	200	170	147	186	160	139	170	150	133	140	155	141	160	160	
Screw Speed	rpm	0-100			0-80			0-80		0-60		0-60	10-60			0-45
Clamp Tonnage	KN	15000			18000			22000				28000		36000	40000	
Toggle Stroke	mm	1260			1520			1750				1850		2250	2350	
Space Between Tie Bars	mm	1320×1200			1500×1480			1650×1620				1820×1620		2160×1900	2400×2200	
Max.Mold Height	mm	1400			1500			1600				1600		2100	2250	
Min.Mold Height	mm	600			650			700				700		800	1000	
Ejector Stroke	mm	360			400			400				400		550	600	
Ejector Tonnage	KN	260			400			500				700		700	700	
Ejector Number	PC	25			25			29				29		25	25	
Max. Pump Pressure	MPa	16			16			16		16		16		16	16	16
Pump Motor Power	Kw	120			133			153.5		153.5		220	200	275	330	
Heater Power	Kw	66.5			75.55			98.7		133.7		177	185.45	202	250	
Machine Dimension(LxWxH)	m	14.2×2.9×2.8			15.5×3.1×3.6			17.5×4.2×3.7		18.5×4.8×4.3		18.5×3.7×3.6		21.5×5.1×3.8	24.5×5.5×4.5	
Machine Weight	t	85			118			136		140		195		280	320	
Hopper Capacity	Kg	400			400			400				400		400	400	
Oil Tank Capacity	L	2500			2900			4100				5500		7000	7000	

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## Configuration :

(The specifications are subject to change without notice )

### List of hydraulic elements , electric elements of FTN90—FTN280

No	NAME	BRAND
1	Computer	TECHMATION
2	Proportional Flow Control and Relief Valves	YUKEN
3	Directional Valve	REXROTH
4	Vane Pump	VICKERS OR DENISON
5	Hydraulic Motor	INTERMOT OR DINAMIC
6	Air Breaker	CHNT
7	Contactora	SCHNEIDER
8	Thermal Overload Relay	SCHNEIDER
9	Linear Transducer	VISHAY
10	Location Limit Switch	NAiS
11	Seals	BUSAK-SHAMBAN
12	Electromotor	Beijing

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## Application area:

Daily use, Electronics, Cars, Logistics, Medical treatment, Engineering , Channel and so on





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## FE Series Injection Machine : FE-160

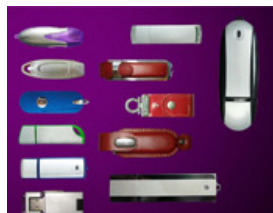


### Specialty:

1. High precision control
2. High speed
3. Stable
4. Energy economical and environmental protection

### Production:

Eyeglass, Mobilephone casing, Electrical shell



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