



Futura Series

...The energy efficient molding solution



60 Ton - 650 Ton
Injection Molding Machine

- Servo
- Energy Efficient
- Industry 4.0 Ready

www.elpml.com

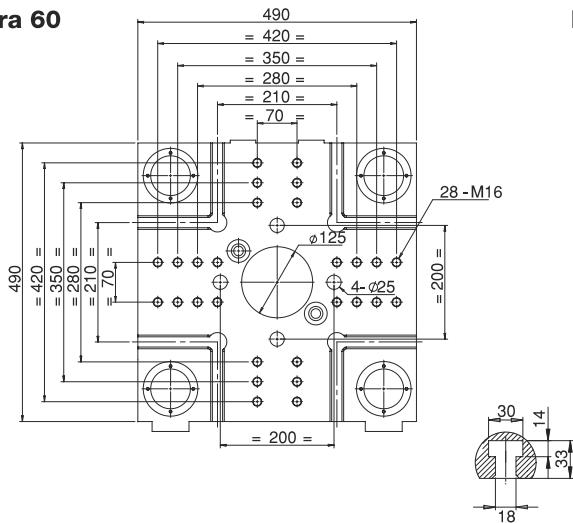


"FUTURA" SERIES INJECTION MOLDING MACHINES - TECHNICAL SPECIFICATIONS

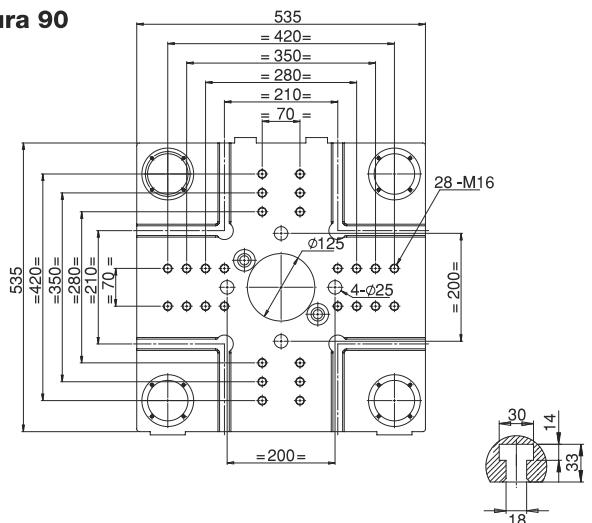
MODEL		Fu 60-128-15	Fu 60-214-18	Fu 90-128-15			Fu 90-214-18			Fu 90-451-18			
International code		600H-128	600H-214	900H-128			900H-214			900H-451			
Injection unit number		128	214	128			214			451			
Injection Unit		X	A	B	C	A	B	C	X	A	B	C	
Screw Diameter	mm	22	28	31	35	31	35	40	22	28	31	35	
Screw Length	L/D	23	21	19	17	22	19	17	23	21	19	17	
Stroke Volume	cm ³	42	68	83	106	102	130	170	42	68	83	106	
Injection Weight max. (PS)**	g	40	64	79	100	97	123	161	40	64	79	100	
Injection Rate #	cm ³ /s	65	105	129	164	99	126	164	65	105	129	164	
Plasticizing Rate #	g/s	6.5	9.6	11.8	15.1	11.8	15.0	19.6	6.5	9.6	11.8	15.1	
Screw Stroke	mm	110			135			110			135		
Injection Pressure	Bar	2850	1897	1548	1214	2097	1645	1259	2850	1897	1548	1214	
Screw RPM	-	354			271			354			271		
Clamping Unit													
Clamping Force	kN	600			600			900			900		
Mold Opening Stroke	mm	300			300			320			320		
Dist Bet.Tie Bars, H x V	mm	320 x 320			320 x 320			360 x 360			360 x 360		
Mold Thickness,min/max.	mm	100 - 320			100 - 320			100 - 350			100 - 350		
Max. Daylight	mm	620			620			670			670		
Platen Dimensions, H x V	mm	490 x 490			490 x 490			535 x 535			535 x 535		
Ejector Stroke	mm	100			100			100			100		
Ejector Force	kN	33.4			30.4			33.4			30.4		
Ejector Number		5			5			5			5		
General Data													
Pump Drive	kW	12 (8.2)			12 (8.2)			12 (8.2)			12 (8.2)		
Installed Heating Capacity	kW	6.46			7.65			6.46			7.65		
Total Connected Power	kW	18.46 (14.66)			19.65 (15.85)			18.46 (14.66)			19.65 (15.85)		
Machine Dimensions (LxWxH)	M	3.7 x 1.5 x 1.7			3.7 x 1.5 x 1.7			3.8 x 1.6 x 1.8			3.8 x 1.6 x 1.8		
Oil Tank Capacity	lit	140			140			190			190		
Net Weight (without Oil)	t	3.1			3.3			3.7			3.9		

NOTE : #Achieved in air injection. *Theoretical value; actual value may vary depending on material, melt density & residence time. Specifications are subject to change due to continuous improvements.

Futura 60



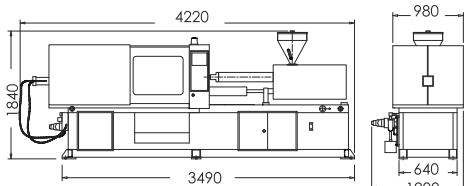
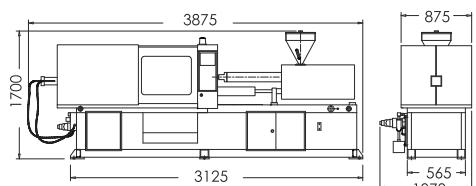
Futura 90



Platen Dimensions

Moving platen

Machine Dimensions



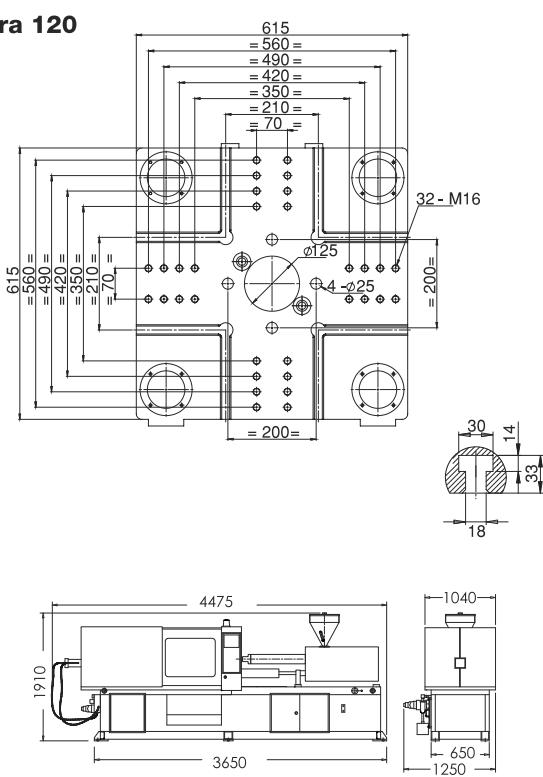
"FUTURA" SERIES INJECTION MOLDING MACHINES - TECHNICAL SPECIFICATIONS

Fu 120-214-18			Fu 120-451-18			Fu 120-573-18			Fu 120-592-22		
1200H-214			1200H-451			1200H-573			1200H-592		
214			451			573			592		
A	B	C	A	B	C	A	B	C	A	B	C
31	35	40	40	45	50	45	50	55	45	50	55
22	19	17	20	18	16	21	19	17	21	19	17
102	130	170	203	258	318	286	353	427	286	353	427
97	123	161	193	245	302	272	336	406	272	336	406
99	126	164	95	120	148	102	125	152	127	157	190
11.8	15.0	19.6	16.9	21.4	26.4	20.0	25.1	30.4	25.2	31.5	38.1
	135		162			180			180		
2097	1645	1259	2218	1752	1419	2003	1623	1341	2069	1676	1385
	271		231			206			258		
1200		1200		1200		1200		1200		1200	
400		400		400		400		400		400	
410 x 410		410 x 410		410 x 410		410 x 410		410 x 410		410 x 410	
160 - 400		160 - 400		160 - 400		160 - 400		160 - 400		160 - 400	
800		800		800		800		800		800	
615 x 615		615 x 615		615 x 615		615 x 615		615 x 615		615 x 615	
110		110		110		110		110		110	
30.4		30.9		29.9		30.9		30.9		30.9	
5		5		5		5		5		5	
12(8.2)		12(8.2)		12(8.2)		18.2(12.4)					
7.65		10.3		13.75		13.75					
19.65(15.85)		22.30(18.50)		25.75(21.95)		31.95(26.15)					
4.3 x 1.7 x 2.0		4.3 x 1.7 x 2.0		4.3 x 1.7 x 2.0		4.3 x 1.7 x 2.0					
250		250		250		250					
4.2		4.3		4.5		4.5					

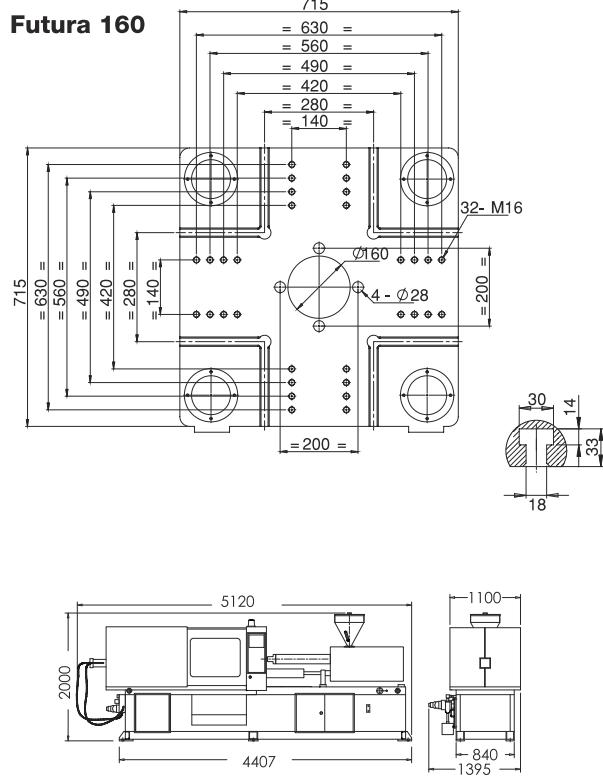
Fu 160-451-18			Fu 160-573-18			Fu 160-592-22			Fu 160-851-22		
1600H-451			1600H-573			1600H-592			1600H-851		
451			573			592			851		
A	B	C	A	B	C	A	B	C	A	B	C
40	45	50	45	50	55	45	50	55	50	55	60
20	18	16	21	19	17	21	19	17	21	19	17
203	258	318	286	353	427	286	353	427	396	480	571
193	245	302	272	336	406	272	336	406	377	456	542
95	120	148	102	125	152	127	157	190	118	143	170
16.9	21.4	26.4	20.0	25.1	30.4	25.2	31.5	38.1	23.5	28.4	33.7
	162			180			180			202	
2218	1752	1419	2003	1623	1341	2069	1676	1385	2147	1775	1491
	231			206			258			200	
1600		1600		1600		1600		1600		1600	
450		450		450		450		450		450	
470 x 470		470 x 470		470 x 470		470 x 470		470 x 470		470 x 470	
160 - 500		160 - 500		160 - 500		160 - 500		160 - 500		160 - 500	
950		950		950		950		950		950	
715 x 715		715 x 715		715 x 715		715 x 715		715 x 715		715 x 715	
122		122		122		122		122		122	
49.1		47.5		49.1		49.1		47.5		47.5	
5		5		5		5		5		5	
12(8.2)		12(8.2)		12(8.2)		18.2(12.4)					
10.3		10.3		13.75		13.75					
22.30(18.50)		25.75(21.95)		31.95(26.15)		31.95(26.15)					
4.8 x 1.8 x 2.0		4.8 x 1.8 x 2.0		4.8 x 1.8 x 2.0		4.8 x 1.8 x 2.0					
300		300		300		300					
6.2		6.4		6.4		6.4					

NOTE : #Achieved in air injection. *Theoretical value; actual value may vary depending on material, melt density & residence time. Specifications are subject to change due to continuous improvements.

Futura 120



Futura 160

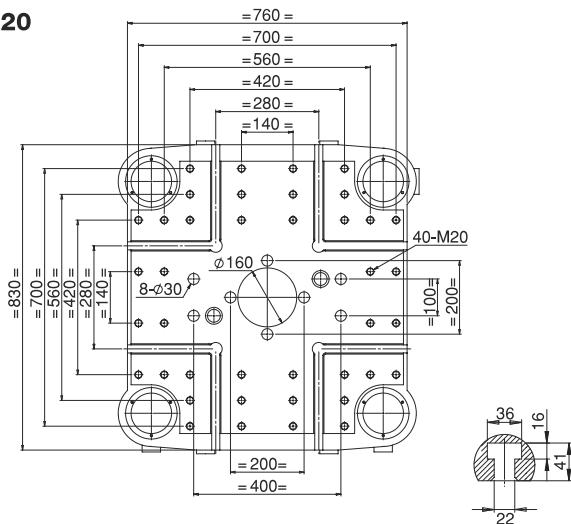


"FUTURA" SERIES INJECTION MOLDING MACHINES - TECHNICAL SPECIFICATIONS

MODEL		Fu 160-893-32	Fu 220-573-18	Fu 220-592-22	Fu 220-851-22	Fu 220-893-32
International code		1600H-893	2200H-573	2200H-592	2200H-851	2200H-893
Injection unit number		893	573	592	851	893
Injection Unit		A B C	A B C	A B C	A B C	A B C
Screw Diameter	mm	50 55 60	45 50 55	45 50 55	50 55 60	50 55 60
Screw Length	L/D	21 19 17	21 19 17	21 19 17	21 19 17	21 19 17
Stroke Volume	cm³	396 480 571	377 456 542	286 353 427	272 336 406	272 336 406
Injection Weight max. (PS)**	g	174 211 251	102 125 152	127 157 190	118 143 170	174 211 251
Injection Rate #	cm³/s	34.4 41.6 49.5	20.0 25.1 30.4	25.2 31.5 38.1	23.5 28.4 33.7	34.4 41.6 49.5
Plasticizing Rate #	g/s	202	180	180	202	202
Screw Stroke	mm	2253 1862 1564	2003 1623 1341	2069 1676 1385	2147 1775 1491	2253 1862 1564
Screw RPM	-	294	206	258	200	294
Clamping Unit						
Clamping Force	kN	1600	2200	2200	2200	2200
Mold Opening Stroke	mm	450	480	480	480	480
Dist Bet. Tie Bars, H x V	mm	470 x 470	535 x 535	535 x 535	535 x 535	535 x 535
Mold Thickness,min/max.	mm	160 - 500	200 - 550	200 - 550	200 - 550	200 - 550
Max. Daylight	mm	950	1030	1030	1030	1030
Platen Dimensions, H x V	mm	715 x 715	760 x 760	760 x 760	760 x 760	760 x 760
Ejector Stroke	mm	122	125	125	125	125
Ejector Force	kN	49.9	47.5	49.1	47.5	49.9
Ejector Number		5	9	9	9	9
General Data						
Pump Drive	kW	28.3 (19.2)	12 (8.2)	18.2 (12.4)	18.2 (12.4)	28.3 (19.2)
Installed Heating Capacity	kW	15.9	13.75	13.75	15.9	15.9
Total Connected Power	kW	44.20 (35.10)	25.75 (21.95)	31.95 (26.15)	34.10 (28.30)	44.20 (35.10)
Machine Dimensions (LxWxH)	M	4.8 x 1.8 x 2.0	5.6 x 1.9 x 2.1			
Oil Tank Capacity	lit	300	400	400	400	400
Net Weight (without Oil)	t	6.7	7.7	7.7	7.8	7.8

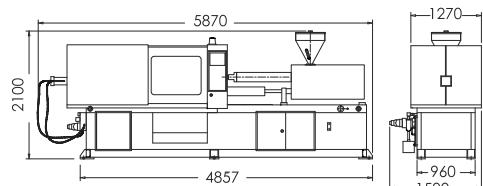
NOTE : #Achieved in air injection. *Theoretical value; actual value may vary depending on material, melt density & residence time. Specifications are subject to change due to continuous improvements.

Futura 220



Platen Dimensions

Moving platen



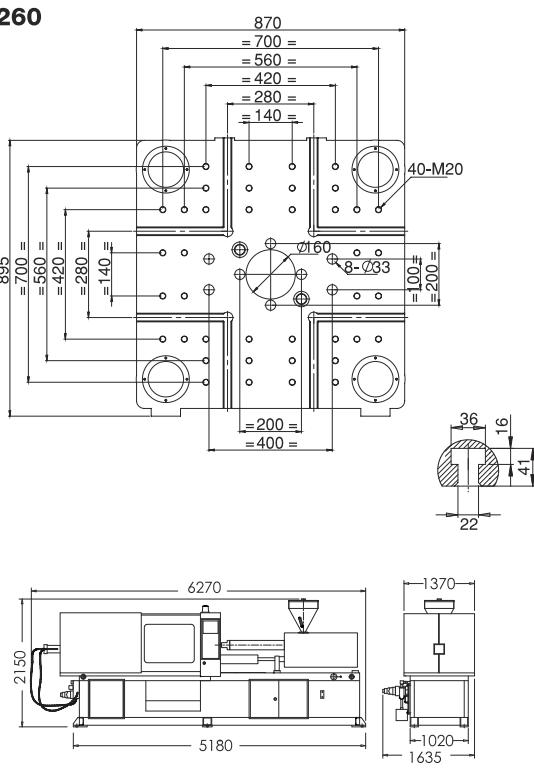
Machine Dimensions

"FUTURA" SERIES INJECTION MOLDING MACHINES - TECHNICAL SPECIFICATIONS

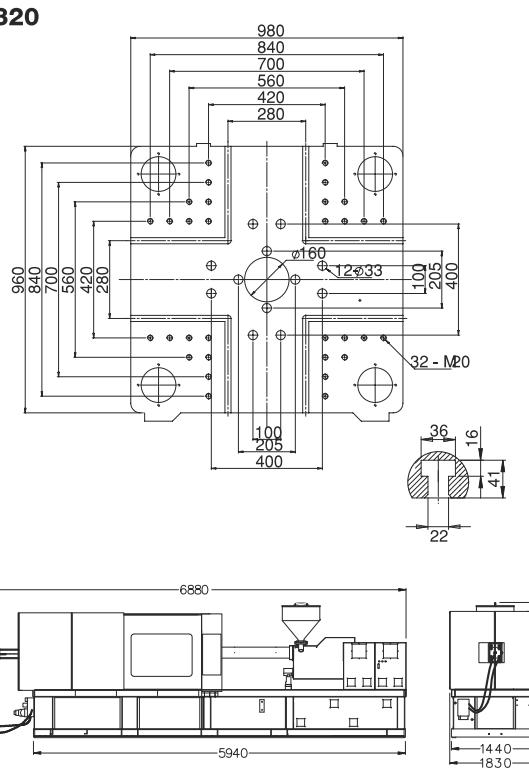
Fu 220-972-32			Fu 260-851-22			Fu 260-893-32			Fu 260-972-32			Fu 260-972-39			Fu 260-1395-39			Fu 260-1440-48		
2200H-972			2600H-851			2600H-893			2600H-972			2600H-972			2600H-1395			2600H-1440		
972			851			893			972			972			1395			1440		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
55	60	67	50	55	60	50	55	60	55	60	67	55	60	67	62	67	72	62	67	72
21	19	17	21	19	17	21	19	17	21	19	17	21	19	17	22.7	21	19.5	22.7	21	19.5
539	642	800	396	480	571	396	480	571	539	642	800	539	642	800	836	976	1127	836	976	1127
512	609	760	377	456	542	377	456	542	512	609	760	512	609	760	794	927	1071	794	927	1071
211	251	313	118	143	170	174	211	251	211	251	313	252	300	374	272	318	367	340	398	459
40.0	47.6	55.9	23.5	28.4	33.7	34.4	41.6	49.5	40.0	47.6	55.9	47.7	56.8	66.7	43.4	50.6	58.4	54.2	63.3	73.0
227			202			202			227			227			277			277		
1804	1516	1215	2147	1775	1491	2253	1862	1564	1804	1516	1215	1804	1516	1215	1669	1429	1238	1723	1476	1278
243			200			294			243			290			156			195		
2200			2600			2600			2600			2600			2600			2600		
480			550			550			550			550			550			550		
535 x 535			580 x 580																	
200 - 550			200 - 600			200 - 600			200 - 600			200 - 600			200 - 600			200 - 600		
1030			1150			1150			1150			1150			1150			1150		
760 x 760			870 x 870																	
125			167			167			167			167			167			167		
48.3			67.3			70.7			68.4			68.4			68.4			70.7		
9			9			9			9			9			9			9		
28.3(19.2)			18.2(12.4)			28.3(19.2)			28.3(19.2)			36.7(24.9)			36.7(24.9)			44.0(29.9)		
18.43			15.9			15.9			18.43			18.43			21.33			21.33		
46.73(37.63)			34.10(28.30)			44.20(35.10)			46.73(37.63)			55.13(37.63)			58.03(46.23)			65.33(51.23)		
5.6 x 1.9 x 2.1			6.1 x 2.1 x 2.2																	
400			490			490			490			490			490			490		
7.9			9.2			9.2			9.3			9.3			9.6			9.6		

NOTE : #Achieved in air injection. *Theoretical value; actual value may vary depending on material, melt density & residence time. Specifications are subject to change due to continuous improvements.

Futura 260



Futura 320



"FUTURA" SERIES INJECTION MOLDING MACHINES - TECHNICAL SPECIFICATIONS

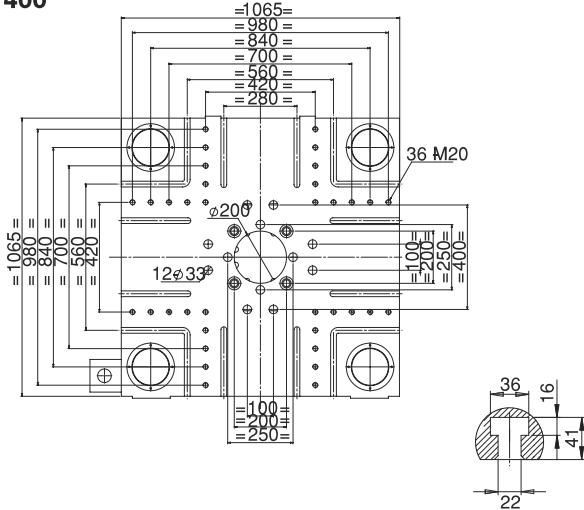
MODEL		Fu 320-1395-39	Fu 320-1440-48	Fu 320-2365-48	Fu 320-2441-55	Fu 400-1395-39							
International code		3200H-1395	3200H-1440	3200H-2365	3200H-2441	4000H-1395							
Injection unit number		1395	1440	2365	2441	1395							
Injection Unit													
Screw Diameter	mm	A 62	B 67	C 72	A 62	B 67	C 72	A 70	B 75	C 80	A 70	B 75	C 80
Screw Length	L/D	22.7	21	19.5	22.7	21	19.5	21.4	20	18.8	21.4	20	18.8
Stroke Volume	cm ³	836	976	1127	836	976	1127	1396	1603	1824	1396	1603	1824
Injection Weight max. (PS)**	g	794	927	1071	794	927	1071	1326	1523	1733	1326	1523	1733
Injection Rate #	cm ³ /s	272	318	367	340	398	459	336	385	438	381	438	498
Plasticizing Rate #	g/s	43.4	50.6	58.4	54.2	63.3	73.0	60.0	64.5	68.9	68.0	73.0	78.0
Screw Stroke	mm				277		277			363		363	
Injection Pressure	Bar	1669	1429	1238	1723	1476	1278	1694	1476	1297	1749	1523	1339
Screw RPM	-				156		195			166		188	
Clamping Unit													
Clamping Force	kN		3200		3200		3200		3200		3200		4000
Mold Opening Stroke	mm		640		640		640		640		640		700
Dist Bet. Tie Bars, H x V	mm		670x650		670x650		670x650		670x650		670x650		720 x 720
Mold Thickness,min/max.	mm		250 - 660		250 - 660		250 - 660		250 - 660		250 - 660		220 - 730
Max. Daylight	mm		1300		1300		1300		1300		1300		1430
Platen Dimensions, H x V	mm		980x960		980x960		980x960		980x960		980x960		1065 x 1065
Ejector Stroke	mm		167		167		167		167		167		180
Ejector Force	kN		68.4		70.7		68.4		70.7		70.7		121.7
Ejector Number			13		13		13		13		13		13
General Data													
Pump Drive	kW		36.7(24.9)		44.0(29.9)		44.0(29.9)		67.0(45.50)				36.7(24.9)
Installed Heating Capacity	kW		21.33		21.33		21		21				21.33
Total Connected Power	kW		58.03(46.23)		65.33(51.23)		65.00(50.90)		88.00(66.50)				58.03(46.23)
Machine Dimensions (LxWxH)	M		6.9 x 1.6 x 2.5		6.9 x 1.6 x 2.5		6.9 x 1.6 x 2.5		6.9 x 1.6 x 2.5				7.5 x 1.6 x 2.31
Oil Tank Capacity	lit		600		600		600		600				720
Net Weight (without Oil)	t		11.5		11.5		11.8		11.8				16.2

NOTE : #Achieved in air injection. *Theoretical value; actual value may vary depending on material, melt density & residence time. Specifications are subject to change due to continuous improvements.

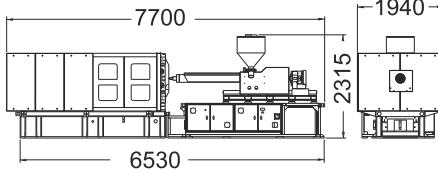
Futura 400

Platen Dimensions

Moving platen



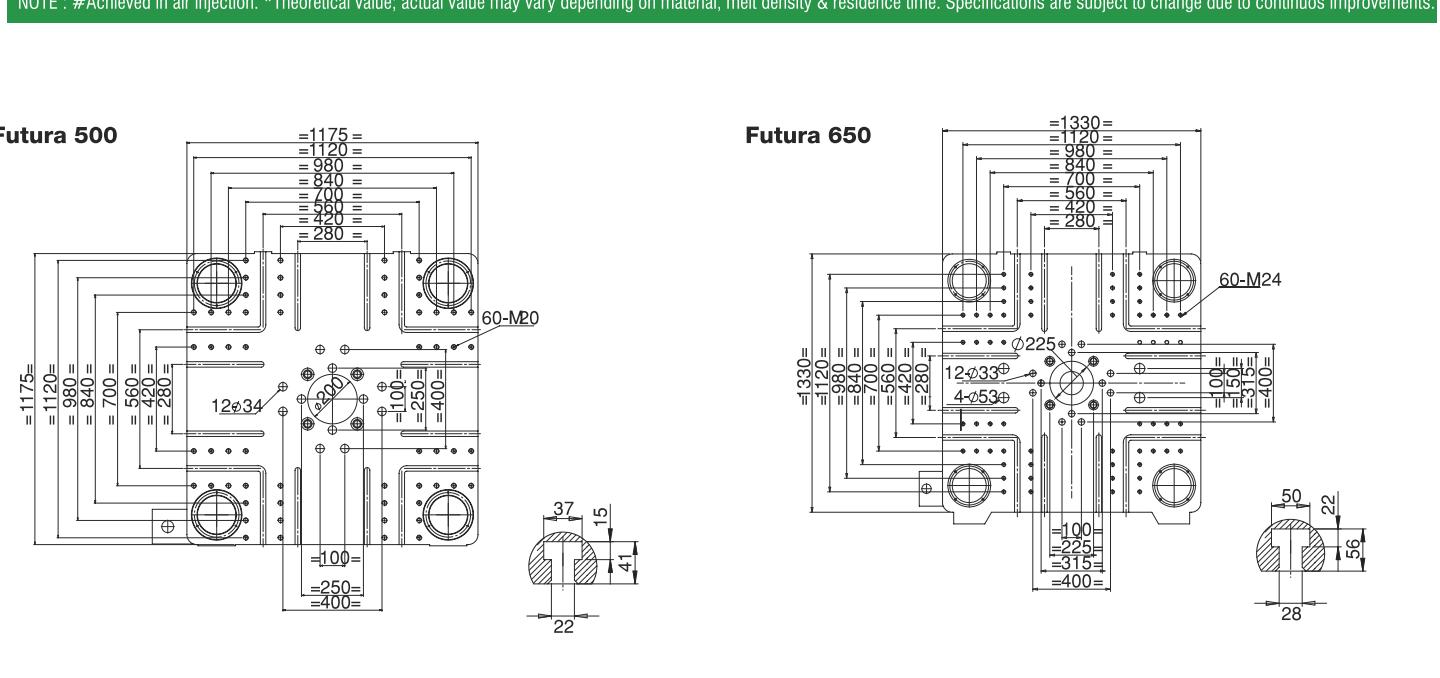
Machine Dimensions



"FUTURA" SERIES INJECTION MOLDING MACHINES - TECHNICAL SPECIFICATIONS

Fu 400-1440-48			Fu 400-2365-48			Fu 400-2441-55			Fu 400-3190-55			Fu 400-3293-68		
4000H-1440			4000H-2365			4000H-2441			4000H-3190			4000H-3293		
1440			2365			2441			3190			3293		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
62	67	72	70	75	80	70	75	80	75	80	85	75	80	85
22.7	21	19.5	21.4	20	18.8	21.4	20	18.8	23.5	22	20.7	23.5	22	20.7
836	976	1127	1396	1603	1824	1396	1603	1824	1766	2010	2269	1766	2010	2269
794	927	1071	1326	1523	1733	1326	1523	1733	1678	1909	2155	1678	1909	2155
340	398	459	336	385	438	381	438	498	358	407	459	444	505	570
54.2	63.3	73.0	60.0	64.5	68.9	68.0	73.0	78.0	53.0	56.2	60.1	67.0	71.0	76.0
277			363			363			400			400		
1723	1476	1278	1694	1476	1297	1749	1523	1339	1806	1588	1406	1865	1639	1452
195			166			188			136			169		
<hr/>														
4000			4000			4000			4000			4000		
700			700			700			700			700		
720 x 720			720 x 720			720 x 720			720 x 720			720 x 720		
220 - 730			220 - 730			220 - 730			220 - 730			220 - 730		
1430			1430			1430			1430			1430		
1065 x 1065			1065 x 1065			1065 x 1065			1065 x 1065			1065 x 1065		
180			180			180			180			180		
125.6			121.7			125.6			121.7			125.6		
13			13			13			13			13		
<hr/>														
44.0(29.9)			44.0(29.9)			67.0(45.50)			67.0(45.5)			67.0(45.5)		
21.33			21			21			30			30		
65.33(51.23)			65.00(50.90)			88.00(66.50)			97.00(75.50)			97.00(75.50)		
7.5 x 1.6 x 2.31			7.5 x 1.6 x 2.31			7.5 x 1.6 x 2.31			7.5 x 1.6 x 2.31			7.5 x 1.6 x 2.31		
720			720			720			720			720		
16.2			16.5			16.5			17			17		

Fu 500-2365-48			Fu 500-2441-55			Fu 500-3190-55								
5000H-2365			5000H-2441			5000H-3190								
2365			2441			3190								
A	B	C	A	B	C	A	B	C						
70	75	80	70	75	80	75	80	85						
21.4	20	18.8	21.4	20	18.8	23.5	22	20.7						
1396	1603	1824	1396	1603	1824	1766	2010	2269						
1326	1523	1733	1326	1523	1733	1678	1909	2155						
336	385	438	381	438	498	358	407	459						
60.0	64.5	68.9	68.0	73.0	78.0	53.0	56.2	60.1						
363			363			400								
1694	1476	1297	1749	1523	1339	1806	1588	1406						
166			188			136								
<hr/>														
5000			5000			5000			5000			5000		
770			770			770			770			770		
800 x 800			800 x 800			800 x 800			800 x 800			800 x 800		
250 - 800			250 - 800			250 - 800			250 - 800			250 - 800		
1570			1570			1570			1570			1570		
1175 x 1175			1175 x 1175			1175 x 1175			1175 x 1175			1175 x 1175		
231			231			231			231			231		
147.2			152.0			152.0			147.2			147.2		
13			13			13			13			13		
<hr/>														
44.0(29.9)			67.0(45.50)			67.0(45.5)			67.0(45.5)			67.0(45.5)		
21			21			30			30			30		
65.00(50.90)			88.00(66.50)			97.00(75.50)			97.00(75.50)			97.00(75.50)		
8.4 x 1.77 x 2.56			8.4 x 1.77 x 2.56			8.4 x 1.77 x 2.56			8.4 x 1.77 x 2.56			8.4 x 1.77 x 2.56		
900			900			900			900			900		
19.8			19.8			20.3			20.3			20.3		



"FUTURA" SERIES INJECTION MOLDING MACHINES - TECHNICAL SPECIFICATIONS

MODEL		Fu 500-3293-68			Fu 500-5011-97			Fu 500-6645-97			Fu 650-3293-68			Fu 650-5011-97		
International code		5000H-3293			5000H-5011			5000H-6645			6500H-3293			6500H-5011		
Injection unit number		3293			5011			6645			3293			5011		
Injection Unit		A	B	C	A	B	C	D			A	B	C	A	B	C
Screw Diameter	mm	75	80	85	80	90	100	110			75	80	85	80	90	100
Screw Length	L/D	23.5	22	20.7	24.8	22	19.8	22			23.5	22	20.7	24.8	22	19.8
Stroke Volume	cm ³	1766	2010	2269	2386	3020	3729	4512			1766	2010	2269	2386	3020	3729
Injection Weight max. (PS)**	g	1678	1909	2155	2267	2869	3542	4286			1678	1909	2155	2267	2869	3542
Injection Rate #	cm ³ /s	444	505	570	524	663	818	896			444	505	570	524	663	818
Plasticizing Rate #	g/s	67.0	71.0	76.0	72.5	91.8	113.2	140.0			67.0	71.0	76.0	72.5	91.8	113.2
Screw Stroke	mm	400			475			475			400			475		
Injection Pressure	Bar	1865	1639	1452	2100	1659	1344	1473			1865	1639	1452	2100	1659	1344
Screw RPM	-	169			144			144			169			144		
Clamping Unit																
Clamping Force	kN	5000			5000			5000			6500			6500		
Mold Opening Stroke	mm	770			770			770			900			900		
Dist Bet.Tie Bars, H x V	mm	800 x 800			800 x 800			800 x 800			900 x 900			900 x 900		
Mold Thickness,min/max.	mm	250 - 800			250 - 800			250 - 800			320 - 900			320 - 900		
Max. Daylight	mm	1570			1570			1570			1800			1800		
Platen Dimensions, H x V	mm	1175 x 1175			1175 x 1175			1175 x 1175			1330 x 1330			1330 x 1330		
Ejector Stroke	mm	231			231			231			250			250		
Ejector Force	kN	152.0			142.5			142.5			180.9			169.6		
Ejector Number		13			13			13			17			17		
General Data																
Pump Drive	kW	67.0(45.5)			88.0(59.8)			88.0(59.8)			67.0(45.5)			88.0(59.8)		
Installed Heating Capacity	kW	30			38.97			56.60			30			38.97		
Total Connected Power	kW	97.00(75.50)			126.97(98.77)			144.6(116.4)			97.00(75.50)			126.97(98.77)		
Machine Dimensions (LxWxH)	M	8.4 x 1.77 x 2.56			8.4 x 1.77 x 2.56			9.16 x 2.07 x 2.98			9.16 x 2.07 x 2.98			9.16 x 2.07 x 2.98		
Oil Tank Capacity	lit	900			900			1300			1300			1300		
Net Weight (without Oil)	t	20.3			21.3			28.5			27.5			28.5		

NOTE : #Achieved in air injection. *Theoretical value; actual value may vary depending on material, melt density & residence time. Specifications are subject to change due to continuous improvements.

Futura Series: Clamping force: 600 - 6500kN

"Futura" series machine is characterized by:

- Enhanced overall injection molding efficiency levels to a great extent.
- It is driven by the most energy efficient servo mechanism resulting in highest energy savings, consistent, repeatable & smoother machine performance.
- About 20 to 60% energy saving compared to a conventional hydraulic machine.

CLAMP

- Sturdy and optimized five-point double toggle system, known for its quick mold open and close movements along with its good mold safety characteristics; is one of the most preferred clamping mechanism in the world.
- Moving platen supported on machine base with adjustable sliding shoes.
- Self-lubricating bushes for toggle mechanism.
- Automatic, motorized mold height / thickness adjustment through Sun and planetary gear mechanism.

- Advanced, progressive type auto grease lubrication with pressure switch feedback & low level sensor.
- Wear resistant stainless steel supporting tracks for moving platen.
- Hard chrome plated, high tensile steel tie bars.
- Stress-relieved sturdy machine base frame.
- Closing and opening speeds, pressures and positions independently settable. Each programmable in 05 stages.
- Linear position transducer for accurate clamp position control.

EJECTOR

- Central hydraulic ejector with multiple stroke feature. Speed, pressure and position independently settable in both directions.
- Pulsating as well as Ejector Hold/ Stay forward function.
- Linear transducer for accurate ejector position control.
- Multi point ejector plate for uniform force distribution provided with multiple ejector rods.

INJECTION

Fu 650D-5906-97	Fu 650D-6645-97
6500H-5906	6500H-6645
5906	6645
D	D
110	110
22	22
4512	4512
4286	4286
896	896
140.0	140.0
475	475
1309	1473
144	144
6500	6500
900	900
900 x 900	900 x 900
320 - 900	320 - 900
1800	1800
1330 x 1330	1330 x 1330
250	250
180.9	180.9
17	17
88.0(59.8)	88.0(59.8)
56.60	56.60
144.6(116.4)	144.6(116.4)
9.16 x 2.07 x 2.98	9.16 x 2.07 x 2.98
1300	1300
28.5	28.5

- Wide choice of injection units with A/B/C screw/barrel combinations.
- Injection speed and pressure profile programmable in 06, position dependent stages.
- Follow up/hold on pressure profile programmable in 05, time dependent stages.
- Screw speed control profile programmable in 05, position dependent stages.
- Strong & balanced twin cylinder injection unit distributes the load/pressure equally along the screw centerline.
- High torque, low speed direct hydraulic screw drive.
- Proven screw geometry for optimum plasticizing capacities with excellent melt homogeneity.
- Back pressure through controller with profile programmable in position dependent stages.
- Fitted with nitrided screw and nitrided barrel, non-return valve and barrel closure assembly with open nozzle suitable for various thermoplastics.
- Delay feature for commencement of plasticizing to aid processing of engineering plastics.
- Monitoring of melt cushion during the follow-up / hold-on pressure phase.
- Switch over from fill to pack based on position or time.
- Linear position transducer for accurate injection position control.
- Suitable capacity material hopper with easy sliding arrangement.

Important parameters as well as hourly production data monitoring.

Built-in Energy management with live display of voltage, current & energy.

Live display of instantaneous power with per hour energy monitoring for last 30 days.

Shot (molding) counter pre-selection with automatic switch off feature.

Fault diagnostics in the event of machine malfunction or operator error with plain text messages and recording of source of error.

Regulated power supply 24VDC for controls and actuators.

I/O diagnosis - analog & digital. HYDRAULICS

Highly energy efficient hydraulic drive system with gear pump & servo motor.

Ergonomically designed easy to access and easy to service hydraulic circuit layout.

Fast responding hydraulic door safety inter lock.

Large capacity heat exchanger for hydraulic oil cooling.

Core pulling control set for hydraulic cores independently programmable.

All hydraulic manifolds and valves mounted close to the actuators for faster response.

Energy saving "pump switch off feature" in case of idle running.

TEMPERATURE CONTROL

- 4 / 5 self-optimizing temperature control zones / circuits with ceramic heating bands for the barrel and nozzle flange heating system.
- PID controlled barrel heater bands, with solid state relays and fast blowing semi conductor fuses for barrel heating system.
- Adjustable high / low tolerance band for monitoring with alarm for deviation from set point.
- Operating temperature range of up to 450°C.
- Thermo couple break down alarm.

Important parameters as well as hourly production data monitoring.

Built-in Energy management with live display of voltage, current & energy.

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All hydraulic manifolds and valves mounted close to the actuators for faster response.

Energy saving "pump switch off feature" in case of idle running.

CONTROLS

Intelligent operator-machine interface with large TFT, multi-color display, with alpha numeric keyboard.

Actual position measuring / indicating system for moving platen, screw travel and ejector.

Overview screen with live display for machine operations.

Continuous process control via monitoring of important process parameters with selectable tolerance band.

Data storage on USB.

Internal storage of up to 200 sets of mold data.



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