

# PERFORMANCE SPECIFICATION TABLE

ITEM	UNIT	FS80S12ASE			FS120S18ASE		
		Ⓐ	Ⓑ	Ⓒ	Ⓐ	Ⓑ	Ⓒ
Screw diameter	inch mm	1.3 32	1.4 36	1.6 40	1.4 36	1.6 40	1.8 45
Injection capacity(P.S.)	in <sup>3</sup> /shot cm <sup>3</sup> /shot oz	6.2 101 3.4	7.7 127 4.3	9.6 157 5.3	9.0 148 5.0	11.1 182 6.1	14.1 231 7.7
Calculated plasticizing capacity(P.S.)	lbs/hr kg/hr	72.7 33	99.2 45	136.6 62	97.1 44	134.7 61	183.2 83
Injection pressure	psi kg/cm <sup>2</sup>	32850 2310	26950 1825	21045 1480	32280 2270	26165 1840	20690 1455
Injection rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	6.04 99	7.63 125	9.46 155	7.51 123	9.28 152	11.78 193
Screw speed	r. p. m.	0~190 (High torque) 0~250 (Low torque)			0~190 0~245		
Hopper capacity	Gal ℓ	6.6 25		6.6 25			
Mold clamping force	US ton ton	88 80		132 120			
Mold clamping stroke	inch mm	13.8 350		15.7 400			
Minimum mold thickness	inch mm	6.3 160 (With spacers) 13.2 335 (Without spacers)		6.7 170 11.8 300			
Max. daylight opening	inch mm	20.1 510 (With spacers) 27.0 685 (Without spacers)		22.4 570 27.0 700			
Clearance between tiebars (H) × (V)	inch mm	14.8 × 14.8 375 × 375		16.1 × 16.1 410 × 410			
Dia plate dimension (H) × (V)	inch mm	21.1 × 21.1 535 × 535		23.6 × 23.6 600 × 600			
Ejector stroke	inch mm	3.0 75		3.3 85			
Pump motor	kw/pole	15/4 (20HP)		18.5/4 (25HP)			
Heater band capacity	kw	7.4		8.3			
Amount of hydraulic oil required	Gal ℓ	85.0 320		116.0 440			
Max. line pressure	psi kg/cm <sup>2</sup>	2000 140		2000 140			
Machine dimensions (L) × (W) × (H)	inch m	177.2 × 40.2 × 73.2 4.50 × 1.02 × 1.86		195.7 × 42.1 × 72.4 4.97 × 1.07 × 1.84			
Floor space occupied (L) × (W)	inch m	142.5 × 35.4 3.62 × 0.90		157.1 × 36.2 3.99 × 0.92			
Machine weight	lbs ton	7.938 3.6		10.363 4.7			

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Note: 1. Shot Capacity and plasticizing capacity values are dependent on molding conditions and materials used.

2. Weight per shot is 95% of theoretical value.(GPPS)

3. The foregoing specifications are subject to change without notice.

ITEM	UNIT	FS160S36ASE			FS180S36ASE			FS210S50ASE		
		A	B	C	A	B	C	A	B	C
Screw diameter	inch	1.8	2.0	2.2	1.8	2.0	2.2	2.0	2.2	2.5
	mm	45	50	56	45	50	56	50	56	63
Injection capacity (P.S.)	in <sup>3</sup> /shot	17.5	21.5	27.0	17.5	21.5	27.0	24.6	30.8	39.0
	cm <sup>3</sup> /shot	286	353	443	286	353	443	403	505	639
	oz	9.6	11.8	14.8	9.6	11.8	14.8	13.5	16.9	21.4
Calculated plasticizing capacity (P.S.)	lbs/hr	172.0	231.5	317.5	172.0	231.5	317.5	194.0	264.6	366.0
	kg/hr	78	105	144	78	105	144	88	120	166
Injection pressure	psi	30075	24385	19410	30075	24385	19410	28725	22895	18130
	kg/cm <sup>2</sup>	2115	1715	1365	2115	1715	1365	2020	1610	1275
Injection rate	in <sup>3</sup> /sec	12.75	15.80	19.77	12.75	15.80	19.77	13.36	16.78	21.23
	cm <sup>3</sup> /sec	209	259	324	209	259	324	215	275	348
Screw speed	r.p.m.	0~200			0~200			0~150		
		0~230			0~230			0~190		
Hopper capacity	Gal ℓ	11.9	45		11.9	45		23.8	90	
Mold clamping force	US ton ton	177	161		202	193		234	212	
Mold clamping stroke	inch mm	18.5	470		20.9	530		21.7	550	
Minimum mold thickness	inch mm	7.9	200		8.7	220		10.4	265	
		16.1	410		16.5	420		19.7	500	
Max. daylight opening	inch mm	26.4	670		29.5	750		32.1	815	
		34.6	880		37.4	950		41.3	1050	
Clearance between tiebars (H) × (V)	inch mm	18.1 × 18.1			20.9 × 20.9			22.4 × 22.4		
		460 × 460			530 × 530			570 × 570		
Dia plate dimension (H) × (V)	inch mm	27.0 × 27.0			30.3 × 30.3			32.5 × 32.5		
		685 × 685			770 × 770			825 × 825		
Ejector stroke	inch mm	3.9	100		4.3	110		4.7	120	
Pump motor	kw/pole	30/4 (40HP)			30/4 (40HP)			30/4 (40HP)		
Heater Band capacity	kw	12.26			12.26			14.72		
Amount of hydraulic oil required	Gal ℓ	150.5	570		162.0	690		206.0	780	
Max. line pressure	psi kg/cm <sup>2</sup>	2000	140		1N 2000	140		2000	140	
					CL 2205	155				
Machine dimensions (L) × (W) × (H)	inch m	233.1 × 44.5 × 78.8			243.3 × 50.4 × 80.7			255.7 × 52.0 × 87.8		
		5.92 × 1.14 × 2.00			6.18 × 1.28 × 2.05			6.75 × 1.32 × 2.23		
Floor space occupied (L) × (W)	inch m	189.1 × 39.8			203.5 × 46.1			210.2 × 46.1		
		4.80 × 1.01			5.17 × 1.17			5.34 × 1.17		
Machine weight	lbs ton	14.33	6.5		16.74	8.5		21.17	9.6	

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Note: 1. Shot Capacity and plasticizing capacity values are dependent on molding conditions and materials used.

2. Weight per shot is 95% of theoretical value (G.P.S.)

3. The foregoing specifications are subject to change without notice.

ITEM	UNIT	FS260S71ASE			FS360S100ASE			FS360S140ASE			
		㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	
Screw diameter	inch mm	2.2 56	2.5 63	2.8 71	2.5 63	2.8 71	3.1 80	2.8 71	3.1 80	3.6 90	
Injection capacity (P.S.)	in <sup>3</sup> /shot cm <sup>3</sup> /shot oz	33.8 554 18.6	42.8 701 23.5	54.4 891 29.8	48.5 795 26.6	61.6 1010 33.8	78.2 1282 43.0	67.7 1109 37.2	85.9 1407 47.1	108.7 1781 59.7	
Calculated plasticizing capacity (P.S.)	lbs/hr kg/hr	260.1 118	362.8 65	511.5 232	355.0 161	496.2 226	674.9 315	445.3 202	621.7 282	846.6 384	
Injection pressure	psi kg/cm <sup>2</sup>	28510 2005	22540 1585	17775 1250	28865 2030	22750 1600	17915 1260	28795 2025	22680 1595	17920 1260	
Injection rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	16.29 267	20.69 339	26.24 430	16.11 264	20.44 335	25.99 426	19.34 317	24.53 402	31.06 509	
Screw speed	r. p. m.	0~160 (High torque) 0~190 (Low torque)			0~160 0~185			0~155 0~165			
Hopper capacity	Gal ℓ	23.6 90		28.0 90		28.0 90		28.0 90			
Mold clamping force	US ton ton	290 263		400 363		400 363		400 363			
Mold clamping stroke	inch mm	23.6 600		28.0 710		28.0 710		28.0 710			
Minimum mold thickness	inch mm	10.4 265 (With spacers) 21.7 550 (Without spacers)		12.4 315 24.0 610		12.4 315 24.0 610		12.4 315 24.0 610			
Max. daylight opening	inch mm	34.1 865 (With spacers) 45.3 1150 (Without spacers)		40.4 1025 52.0 1320		40.4 1025 52.0 1320		40.4 1025 52.0 1320			
Clearance between tiebars (H) × (V)	inch mm	24.2 × 24.2 615 × 615		27.6 × 27.6 700 × 700		27.6 × 27.6 700 × 700		27.6 × 27.6 700 × 700			
Die plate dimension (H) × (V)	inch mm	35.6 × 35.6 905 × 905		40.2 × 40.2 1020 × 1020		40.2 × 40.2 1020 × 1020		40.2 × 40.2 1020 × 1020			
Ejector stroke	inch mm	5.1 130		5.9 150		5.9 150		5.9 150			
Pump motor	kw/pole	37/4 (50HP)		37/4 (50HP)		37/4 (50HP)		45/4 (60HP)			
Heater Band capacity	kw	16.87		24.25		24.25		31.88			
Amount of hydraulic oil required	Gal ℓ	238.0 900		243.0 920		243.0 920		243.0 920			
Max. line pressure	psi kg/cm <sup>2</sup>	2000 140		CL 1980 TN 2490		CL 140 TN 175		CL 1890 TN 2450		CL 140 TN 175	
Machine dimensions (L) × (W) × (H)	inch m	289.8 × 55.1 × 89.4 7.36 × 1.40 × 2.27		327.2 × 59.4 × 92.5 8.31 × 1.51 × 2.35		327.2 × 59.4 × 92.5 8.31 × 1.51 × 2.35		342.1 × 59.4 × 92.5 8.69 × 1.51 × 2.35		342.1 × 59.4 × 92.5 8.69 × 1.51 × 2.35	
Floor space occupied (L) × (W)	inch m	230.0 × 49.2 5.84 × 1.25		257.9 × 55.1 6.55 × 1.40		257.9 × 55.1 6.55 × 1.40		278.7 × 55.1 7.08 × 1.40		278.7 × 55.1 7.08 × 1.40	
Machine weight	lbs ton	24.70 11.2		35.94 16.3		35.94 16.3		38.37 17.4		38.37 17.4	