



# Standard Machine Specifications

## VERTICAL PRESSES

## HORIZONTAL

Machine Series	5 Ton <sup>1</sup>	10 Ton <sup>1</sup>	15 Ton <sup>1</sup>	20 Ton <sup>2</sup>	100 Ton	200 Ton	300 Ton	500 Ton	600 Ton	800 Ton	1400 Ton	1800 Ton	100 Ton	200 Ton	
	Inj: a,b	Inj: a,b	Inj: c	Inj: a,b	Inj: d,e	Inj: e,f	Inj: e,f,g	Inj: f,g,h,i	Inj: g,h,i,j	Inj: i,j,k	Inj: k,l	Inj: k,l	Inj: d,e	Inj: e,f	
CLAMP	Clamp Force (U.S. Tons)	5	10	15	20	100	200	300	500	600	800	1400	1800	100	200
	Pressure @ Rated Tonnage (PSI)	1,200	1,600	2,400	2,400	2,310	2,600	2,500	2,765	2,600	2,600	2,600	2,600	2,310	2,600
	Mold Height (Inches) Minimum	2.75	2.75	5	4	3	3	4	5	5	7	11	11	6	6
	Mold Height (Inches) Maximum	8	8	13	11	15	16	14	16	16	20	20	20	10	14
	Platen Size (Inches) Width	8	13.5	17	12	14 or 16	18	22	30	30	32	42	42	14	18
	Platen Size (Inches) Depth	8	8.5	10	12	16	22	25	30	36	40	44	44	14	22
	Distance Between Strain Rods (Inches) Left to Right	(n/a)	(n/a)	(n/a)	(n/a)	19	22	26	36	36	37	46	46	16	20.5
	Distance Between Strain Rods (Inches) Front to Back	(n/a)	(n/a)	(n/a)	(n/a)	10	13	17	17	22	26	24	24	15.5	24
GENERAL	Daylight - Maximum (Inches)	14	14	19	17	21	22	27	40	40	42	44	44	33	33
	Heating Platen (kW / Platen)	1.5	1.5	4.5	4.5	6	8	12	15	15	15	24	24	6	8
	Inject Temperature Controls (kW / Zone) <sup>3</sup>	2	2	2	2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Hydraulic Pump Motor (HP)	10	10	10	15	30	40	50	50 / 100	50 / 100	100	100	100	30	50
	Hydraulic Pump Motor Speed (RPM)	1,200	1,200	1,200	1,800	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
	Hydraulic Pump Volume (GPM)	7	7	9	15	17	30	38	38 / 62	38 / 62	62	62	62	15	35 / 21 / 7
	System Pressure - Maximum (PSI)	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800
	Power Required Maximum (Amps) <sup>4</sup>	25	25	45	50	70	81	116	122 / 181	122 / 181	181	201	201	70	81
	Reservoir Capacity (Gallons)	30	30	30	30	65	100	125	125 / 180	125 / 180	180	180	180	100	200
	SIZE	Overall Width (Inches)	72	72	88	42	108	104	125	137	165	163	186	186	158
Overall Depth (Inches)		40	40	48	49	84	104	113	111	122	126	123	123	58	65
Clamp Unit Height (Inches)		96	96	88	105	75	78	77	92	96	107	137	137	65	72
Clamp Unit Weight (Lbs)		3,500	3,800	4,000	4,200	6,000	8,000	14,000	20,000	30,000	38,000	86,000	105,000	12,000	20,000

1 = 'C' Frame Style Vertical Press - "Up" Acting    2 = 'C' Frame Style Vertical Press - "Down" Acting    3 = Water or Oil, 3 or 4 Zones    4 = Standard 460 VAC, 3Phase, 60Hz

## INJECTION UNITS

### Inject Sizes

	a	b	c	d	e	f	g	h	i	j	k	l	
	3-oz.	5-oz.	14-oz.	17-oz.	2.7#	5.5#	10#	15#	20#	30#	40#	55#	
INJECT	Shot Capacity @ 1.25 Specific Gravity (Lbs)	3 oz.	5 oz.	14 oz.	17 oz.	2.7	5.5	10	15	20	30	40	55
	Maximum Displacement (Cubic Inches)	4.2	7	19	24	60	122	225	335	450	675	900	1325
	Inject Pressure (PSI)	11,000	11,000	16,700	27,700	22,000	22,000	25,000	21,300	21,300	24,400	24,400	22,500
	Inject Rate - Max (Cubic Inches / Sec)	5.2	5.2	5.8	5.9	10	17.3	14.8	17.8	29	25.4	25.4	27.1
	Inject Time - Minimum (Sec)	0.8	0.8	4.0	4.1	6.0	7.1	15.2	18.8	15.5	26.5	35.4	41.5
SCREW	Screw Diameter (Inches)	1.19	1.19	1.50	1.50	1.50	2.50	2.50	2.50	3.50	3.50	3.50	
	L / D Ratio	12 : 1	12 : 1	15 : 1	11 : 1	11 : 1	11 : 1	11 : 1	11 : 1	11 : 1	11 : 1	11 : 1	
	Screw Speed (RPM)	0 - 150	0 - 150	0 - 150	0 - 160	0 - 210	0 - 160	0 - 125	0 - 85	0 - 85	0 - 85	0 - 85	0 - 85
	Back Pressure (PSI)	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
WT	Inject Unit Height (Inches)	(n/a)	(n/a)	(n/a)	74	74	100	114	125	148	130	153	187
	Inject Unit Weight (Lbs)	(n/a)	(n/a)	(n/a)	1,100	2,000	3,000	6,000	7,000	7,500	11,250	15,000	22,000

### Available Options:

- Larger Platens
- FIFO Injection Units
- Larger Injection Units
- Shuttle Systems
- Core Bar Systems
- Top Hydraulic Ejectors
- Bottom Hydraulic Ejectors
- Multiple Zone Heating Platens
- Cold Runner System
- Oil or Water Temperature
- Control Units

Plus any other modifications you may require.

Rubber Weight: 1Lb. (@ 1.25 Specific Gravity) = 22.2 Cubic Inches : 1In3 = 16.39 c.c.    Note: Add [Clamp Unit Height] and [Inject Unit Height] for Overall Unit Height. Add [Clamp Unit Weight] and [Inject Unit Weight] for Total Weight

Superior Rubber Injection Molding Presses

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