



**L.K. MACHINERY, INC.**

# EFFORT SERIES

## **NEW** EFFORT SERIES

PT30  
PT50  
PT80  
PT130  
PT160  
PT200  
PT250  
PT300  
PT350  
PT450  
PT550  
PT650  
PT850

## **Direct Hydraulic Plastic Injection Molding Machine**



### **A NEW GENERATION OF PRECISE DIRECT HYDRAULIC INJECTION MOLDING MACHINE**

#### **Stability**

Constant clamping force, high precision, reduced product tolerance

#### **Easy Management**

Digital back pressure control, precise plasticizing control, optimized uniform heating control

#### **Precision**

Single injection cylinder reduces friction coefficient, with better performance than twin cylinder non-synchronous injection technology

#### **High Speed**

Ask about our special PT350H ton High Speed Molding Machine

Model: Effort Series	Unit	PT30	PT50	PT80	PT130	PT160	PT200	PT250														
Shot weight(PS)	g	38	45	563	63	73	84	1065	145	189	180	234	297	304	375	454	402	87	579	584	695	815
Screw diameter	OZ	1	2	2	3	3	3	4	5	7	6	8	11	11	13	16	14	17	21	21	25	29
Injection Volume	in3	0.9	0.9	1	1	1.1	1.2	1.2	1.4	1.6	1.4	1.6	1.8	1.8	2	2.2	2	2.2	2.4	2.2	2.4	2.6
Injection pressure	psi	31908	26831	22915	32198	27702	24221	28137	20740	15809	32343	24801	19580	30167	24366	19580	27702	22915	19144	30312	25526	21755
Injection rate	in3/s	3	3	4	4	5	6	6	8	11	6	8	11	9	11	13	12	15	18	18	21	25
Screw speed	r.p.m	260	260	260	260	260	260	260	261	261	270	270	270	255	255	219	219	219	264	264	264	264
Plasticizing rate	lb/hr	32	42	44	44	55	73	62	97	145	152	216	295	222	315	370	299	356	414	433	568	713
Hopper capacity	ft3	.7	.7	.7	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Clamping System	ton (US)	34	34	34	56	56	56	90	90	90	146	146	146	180	180	225	225	225	281	281	281	281
Min. mold height	in	8	8	8	8	8	8	6	6	6	7	7	7	8	8	8	8	8	8	8	8	8
Max. daylight	in	12	12	12	16	16	16	19	19	19	23	23	23	26	26	30	30	30	34	34	34	34
Mold open stroke	in	20	20	20	24	24	24	25	25	25	30	30	30	33	33	38	38	38	42	42	42	42
Distance between tiebar	in	12 X 12	12 X 12	12 X 12	13 X 13	13 X 13	13 X 13	14 X 14	14 X 14	14 X 14	16 X 16	16 X 16	16 X 16	18 X 18	18 X 18	20 X 20	20 X 20	20 X 20	22 X 22	22 X 22	22 X 22	22 X 22
Platen size	in	17 X 17	17 X 17	17 X 17	19 X 19	19 X 19	19 X 19	23 X 21	23 X 21	23 X 21	27 X 24	27 X 24	27 X 24	29 X 27	29 X 27	32 X 29	32 X 29	32 X 29	36 X 33	36 X 33	36 X 33	36 X 33
Ejector stroke	in	2	2	2	2	2	2	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Min. mold size	in	8.6x8.6	8.6x8.6	8.6x8.6	9.25x9.25	9.25x9.25	9.25x9.25	10.3x10.3	10.3x10.3	10.3x10.3	11.6x11.6	11.6x11.6	11.6x11.6	12.8x12.8	12.8x12.8	14.2x14.2	14.2x14.2	14.2x14.2	16x16	16x16	16x16	16x16
Motor Power	hp	10	10	10	10	10	10	15	15	15	20	20	20	24	24	30	30	30	40	40	40	40
Machine Dimensions(LxWxH)	in	152x36x74	152x36x74	152x36x74	157x39x77	157x39x77	157x39x77	164x35x41	164x35x41	164x35x41	181x78x44	181x78x44	181x78x44	204x47x79	204x47x79	219x49x89	219x49x89	219x49x89	249x54x89	249x54x89	249x54x89	249x54x89
Oil tank capacity	gal	6	6	6	6	6	6	52	52	52	74	74	74	79	79	114	114	114	106	106	106	106
Heating power	kW	4	4	4	4	4	4	5	5	5	7	7	7	8	8	13.5	13.5	13.5	14	14	14	14
Machine Weight	lbs	5291	5291	5291	5511	5511	5511	5952	5952	5952	9259	9259	9259	11904	11904	16314	16314	16314	20944	20944	20944	20944

Model: Effort Series	Unit	PT300	PT350	PT450	PT550	PT650	PT850												
Shot weight(PS)	g	823	966	1186	1042	127	1578	1444	1783	2014	1708	2194	2460	2453	3064	3395	3386	3752	4136
Screw diameter	OZ	29	34	42	37	45	56	52	63	71	60	77	87	87	108	120	119	133	146
Injection Volume	in3	2.4	2.6	2.8	2.6	2.8	3.1	2.8	3.1	3.3	3	3.3	3.5	3.3	3.7	3.9	3.7	3.9	4.1
Injection pressure	psi	35679	30457	24801	34664	28137	22770	35679	28862	25671	31183	23991	21320	31618	25381	22770	28717	25961	23641
Injection rate	in3/s	15	18	22	19	24	29	25	31	35	29	38	42	38	47	52	46	51	56
Screw speed	r.p.m	176	176	176	219	219	219	170	170	170	130	130	130	130	130	115	115	115	115
Plasticizing rate	lb/hr	502	638	867	647	871	1208	603	832	990	550	792	939	638	902	411	999	1166	1349
Hopper capacity	ft3	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3	7.1	7.1	7.1	8.8	8.8	10.6	10.6	10.6	
Clamping System	ton (US)	337	337	337	393	393	393	506	506	506	618	618	618	731	731	955	955	955	
Min. mold height	in	10	10	10	10	10	10	12	12	12	14	14	14	16	16	18	18	18	
Max. daylight	in	36	36	36	46	46	46	51	51	51	57	57	57	63	63	73	73	73	
Mold open stroke	in	46	46	46	56	56	56	63	63	63	71	71	71	79	79	91	91	91	
Distance between tiebar	in	26 X 26	26 X 26	26 X 26	28 X 27	28 X 27	28 X 27	32 X 28	32 X 28	32 X 28	36 X 34	36 X 34	36 X 34	38 X 38	38 X 38	43 X 42	43 X 42	43 X 42	
Platen size	in	42 X 39	42 X 39	42 X 39	44 X 42	44 X 42	44 X 42	45 X 47	45 X 47	45 X 47	52 X 50	52 X 50	52 X 50	58 X 55	58 X 55	65 X 64	65 X 64	65 X 64	
Ejector stroke	in	5.1	5.1	5.1	5.9	5.9	5.9	7.1	7.1	7.1	8.7	8.7	8.7	9.8	9.8	11.8	11.8	11.8	
Min. mold size	in	19x19	19x19	19x19	19.5x19.5	19.5x19.5	19.5x19.5	21.5x21.5	21.5x21.5	21.5x21.5	25x25	25x25	25x25	27x27	27x27	30x30	30x30	30x30	
Motor Power	hp	40	40	40	60	60	60	74	74	74	74	74	74	80	80	99	99	99	
Machine Dimensions(LxWxH)	in	274x61x96	274x61x96	274x61x96	304x68x97	304x68x97	304x68x97	343x71x101	343x71x101	343x71x101	400x83x95	400x83x95	400x83x95	463x88x101	463x88x101	518x100x113	518x100x113	518x100x113	
Oil tank capacity	gal	195	195	195	251	251	251	330	330	330	293	293	293	370	370	423	423	423	
Heating power	kW	16.5	16.5	16.5	17	17	17	18	18	18	28	28	28	33	33	40	40	40	
Machine Weight	lbs	26896	26896	26896	38801	38801	38801	45415	45415	45415	50709	50709	50709	55115	55115	74957	74957	74957	

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