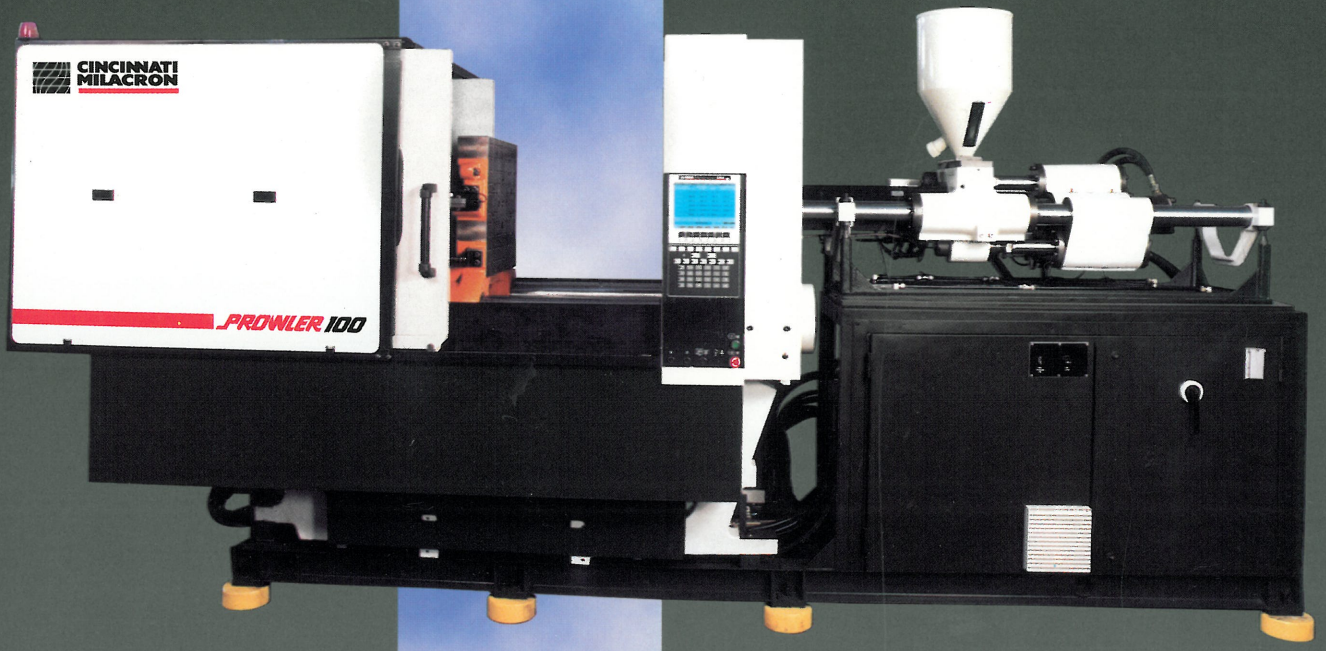
BUILD YOUR

PRODUCTIVITY IN THE

WIDE OPEN SPACES



PROWLER HydraColumn 100-135-190 Ton Injection Molding Machines available. 100 Ton shown here. Proven FEA modeling methods assure reliability. Over 400,000 cycles have produced no deterioration of seals or wear surfaces.

WHEN YOU'RE ON THE PROWL,

YOU'RE BUILDING PRODUCTIVITY IN THE

WIDE

PROWLER HydraColumn Injection Molding Machines

SPECIF

100-135-190 Ton Clamp Capacities

English

		P100 (32mm)			P100 (40mm)			P135 (40mm)			P135 (50mm)			P190 (45mm)			P190 (50mm)		
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	in	1.26	1.42	1.65	1.57	1.77	1.97	1.57	1.77	1.97	1.97	2.17	2.56	1.77	1.97	2.17	1.97	2.17	2.56
Inj. Pressure	psi	30000	23688	17424	27000	21300	17250	27100	21400	17350	27500	22727	16272	27000	21890	18075	27500	22727	16272
Stroke Volume	in^3	6.35	8.06	10.99	13.79	17.46	21.55	13.8	17.5	21.6	30.0	36.2	50.6	19.4	24	29	30	36.2	50.6
Max. Injected Wt.	oz	3.51	4.44	6.04	4.86	7.59	9.61	8	10	12	17	20	28	11	13	16	17	20	28
Max. Inj. Rate	in^3/sec	8.66	10.93	14.93	10.20	12.90	15.97	12	15	19	11	14	20	15	18	26	15	18	46
Screw Length	L/D	22.6	20	17	22.5	20	18	22.5	20	18	22	20	16.9	22.2	20	18.2	22	20	16.9
Screw Speed *HSLT	RPM	400	400	400	400	325	258	380	380	380	305	305	305	435	435	435	305	305	305
*LSHT	RPM	—	—	—	—	—	—	285	285	285	203	203	203	304	304	304	203	203	203
Screw Torque *HSLT	in-lb	542	691	691	685	863	1097	6800	6800	6800	11900	11900	11900	8400	923	923	11900	11900	11900
*LSHT	in-lb	—	—	—	—	—	—	9500	9500	9500	17900	17900	17900	11900	1349	1349	17900	17900	17900
at Pressure	psi	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
Installed Heat. Cap	kw	6.95	6.95	6.95	12.7	12.7	12.7	11.4	11.4	11.4	19.2	19.2	19.2	15	15	15	19.2	19.2	19.2
No. of Heat Zones		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Unit Stroke	in	5.12	5.12	5.12	7.09	7.09	7.09	7.09	7.09	7.09	9.84	9.84	9.84	7.9	7.9	7.9	9.84	9.84	9.84
CLAMP UNIT																			
Clamp Force	English tons	100			100			135			135			190			190		
Clamp Force	Metric tons	90			90			120			120			170			170		
Opening Force	tons	5			5			7			7			9			9		
Mold Opening Strk	in	19.69			19.69			23.62			23.62			27.56			27.56		
Min Mold Ht	in	9.84			9.84			9.84			9.84			9.84			9.84		
Max Daylite	in	29.53			29.53			33.46			33.46			37.40			37.40		
Platen Size (H)	in	26.77			26.77			31.50			31.50			35.43			35.43		
Platen Size (V)	in	24.41			24.41			27.56			27.56			29.53			29.53		
Ejector Force	tons	44			44			4.95			4.95			5.2			5.2		
Ejector Stroke	in	5.12			5.12			5.12			5.12			5.91			5.91		
GENERAL DATA																			
Dry Cycle	sec	2.2			2.2			2.4			2.4			2.4			2.4		
Pump Drive	hp	25			25			30			40			40			40		
Total Connect Pwr	kw	27			27			31.4			39.2			45			49.5		
Length	in	191			191			217			217			228			228		
Width	in	55			55			67			67			71			71		
Height	in	86			86			94			94			104			104		
Net Weight w/o oil	lb	13100			14000			17600			17600			19800			19800		
Max Hyd. Sys Pres	psi	2610			2610			2610			2610			2610			2610		

I C A T I O N S

Metric

		P100 (32mm)			P100 (40mm)			P135 (40mm)			P135 (50mm)			P190 (45mm)			P190 (50mm)		
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	42	40	45	50	40	45	50	50	55	65	45	50	55	50	55	65
Inj. Pressure	bar	2068	1634	1201	1860	1470	1190	1870	1475	1195	1897	1567	1122	1862	1510	1245	1897	1567	1122
Stroke Volume	cc	104	132	180	226	286	353	226	286	353	491	594	830	318	393	475	491	594	830
Max. Injected Wt.	g	95	125	170	215	270	335	215	272	336	468	565	789	303	374	452	468	565	789
Max. Inj. Rate	cc/s	141	178	243	166	210	260	197	246	307.5	185	221	320	272	336	406	246	295	426
Screw Length	L/D	22.6	20	17	22.5	20	18	22.5	20	18	22	20	16.9	22.2	20	18.2	22	20	16.9
Screw Speed *HSLT	RPM	400	400	400	400	325	258	380	380	380	228	228	228	435	435	435	305	305	305
*LSHT	RPM	—	—	—	—	—	—	285	285	285	152	152	152	304	304	304	203	203	203
Screw Torque *HSLT	N-M	542	691	691	685	863	1097	746	746	746	1345	1345	1345	923	923	923	1345	1345	1345
*LSHT	N-M	—	—	—	—	—	—	1078	1078	1078	2023	2023	2023	1349	1349	1349	2023	2023	2023
at Pressure	bar	170	172	172	170	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Installed Heat. Cap	kW	6.95	6.95	6.95	12.7	12.7	12.7	11.4	11.4	11.4	19.2	19.2	19.2	15	15	15	19.2	19.2	19.2
No. of Heat Zones		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Unit Stroke	mm	130	130	130	180	180	180	180	180	180	250	250	250	200	200	200	250	250	250
CLAMP UNIT																			
Clamp Force	kN	900			900			1200			1200			1700			1700		
Clamp Force	Metric Tons	90			90			120			120			170			170		
Opening Force	mm	45			45			60			60			80			80		
Mold Opening Strk	mm	500			500			600			600			700			700		
Min Mold Ht	mm	250			250			250			250			250			250		
Max Daylite	mm	750			750			850			850			950			950		
Platen Size (H)	mm	680			680			800			800			900			900		
Platen Size (V)	mm	620			620			700			700			750			750		
Ejector Force	kN	44			44			44			44			46			46		
Ejector Stroke	mm	130			130			130			130			150			150		
GENERAL DATA																			
Dry Cycle	sec	2.2			2.2			2.4			2.4			2.4			2.4		
Pump Drive	KW	20			20			22			30			30			30		
Total Connect Pwr	KW	27			33			31.4			39.2			45			49.5		
Length	mm	4860			4860			5500			5500			5800			5800		
Width	mm	1400			1400			1700			1700			1800			1800		
Height	mm	2200			2200			2375			2325			2625			2625		
Net Weight w/o oil	Kg	5950			6350			8000			8000			9000			9000		
Max Hyd. Sys Pres	bar	180			180			180			180			180			180		

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- Parallel Twin Screw Extrusion Systems
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- Single Screw Extrusion Systems
- Sheet Extrusion Systems

All specifications reflect average values based on typical machine layouts. Actual figures will vary depending on final machine configuration. If you require more specific data, consult a certified installation print for your particular machine. Performance specifications are based on theoretical data. Shipping weights reflect average historical values. Due to continual improvements, specifications are subject to change without notice.

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