

# Machines of the *Astral pro* Series

The powerful, high-speed and efficient injection molding machine.



# Astral Pro 110 - 450 T





## Areas of Application of the *Astral Pro* Series

---



Thin-walled  
Packaging



Caps &  
Closures



IML  
Containers



Sipper  
Glass

## Leading Advantages of the *Astral Pro* Series

---



Intelligence



Precision



Speed



Stability



Power  
Saver



Dynamic

## Benefits of the *Astral Pro* Series

---

- Application-specific configuration options
- Maximum productivity and total precision
- Superior reliability and availability
- Minimum energy consumption
- Increased overall performance provides substantial material savings
- User convenience because it is easy, quick and intuitive to use
- Clean and precise clamping unit.
- Flexible operating unit
- Highly precise injection unit
- Superior shot-to-shot consistency
- Optimal maintenance friendliness Okay

# Astral Pro

Range 110W | 125 | 150 | 200 | 280 | 350 | 450 Ton

## TECHNICAL DATA

MACHINE MODEL		ASTRAL PRO - 110 W		ASTRAL PRO - 125		ASTRAL PRO - 150			ASTRAL PRO - 200		
MODEL SIZE		1100 - 280	1100 - 370	1250-280	1250-370	1500-370	1500-630	1500-630	2000-630	2000-970	
INJECTION UNIT		UNIT	280	370	280	370	370	630	630	630	970
Screw Diameter	mm	35	40	35	40	40	45	45	45	50	
Injection Shot Weight (GPPS)	gms	136	210	136	210	210	325	325	325	448	
Theoretical Displacement	cc	144	220	144	220	220	342	342	342	471	
Maximum Injection Pressure	bar	2122	1875	2122	1875	1875	1735	1735	1735	1760	
Injection Rate	cc/sec	236	267	236	267	400	462	462	550	540	
Injection Speed	mm/sec	245	215	245	215	325	290	345	345	275	
Screw L/D Ratio		20	20	20	20	20	20	20	20	24	
Injection Screw Stroke	mm	150	175	150	175	175	215	215	215	240	
Screw Speed	rpm	375	450	375	450	450	400	400	400	350	
Plasticizing Rate (GPPS)	gm/sec	15	24	15	24	24	26	26	26	50	
No. of Heating Zones	barrel + nozzle	3 + 1	4 + 1	3 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	
Total Heat Capacity	KW (hp)	7 (9)	9 (12)	7 (9)	9 (12)	9 (12)	13 (17)	13 (17)	13 (17)	16 (21)	
CLAMPING UNIT		UNIT									
Clamping Force	Ton	110	110	125	125	150	150	150	200	200	
Distance Between Tie Bar (HxV)	mm	450 x 450	450 x 450	450 x 450	450 x 450	510 x 510	510 x 510	510 x 510	570 x 570	570 x 570	
Platen Size (HxV)	mm	670 x 670	670 x 670	670 x 670	670 x 670	740 x 740	740 x 740	740 x 740	830 x 830	830 x 830	
Mold Opening Stroke	mm	550	550	550	550	650	650	650	850	850	
Mold Height Minimum	mm	200	200	200	200	250	250	250	250	250	
Ejector Force	Ton	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.5	8.5	
Ejector Stroke	mm	130	130	130	130	180	180	180	200	200	
Maximum Daylight	mm	750	750	750	750	900	900	900	1100	1100	
Mold Weight Capacity	Kg	1050	1050	1050	1050	2000	2000	2000	2500	2500	
GENERAL DATA		UNIT									
Water Requirement (Inlet Temp 26 deg.)	lpm	100	100	125	125	180	180	180	180	180	
Total Oil Tank Capacity	ltrs.	440	440	440	440	550	550	550	660	660	
Machine Dimension	L x W x H (mtr)	4.6 x 1.2 x 1.8	4.6 x 1.2 x 1.8	4.6 x 1.2 x 1.8	4.8 x 1.2 x 1.8	5.4 x 1.5 x 2.1	5.7 x 1.5 x 2.1	5.7 x 1.5 x 2.1	6.4 x 1.7 x 2.2	6.7 x 1.7 x 2.2	
Machine Weight	Kg	3800	3800	3800	4600	6200	6200	6200	6200	9200	
Servo Motor	KW (hp)	15 (20)	15 (20)	17 (22)	17 (22)	24 (31)	27 (36)	32 (42)	32 (42)	32 (42)	
Connected Load	KW (hp)	22 (29)	22 (29)	24 (31)	26 (34)	33 (43)	40 (53)	45 (59)	45 (59)	48 (63)	

MACHINE MODEL		ASTRAL PRO-280		ASTRAL PRO - 350			ASTRAL PRO - 450			
MODEL SIZE		2800-630	2800-970	3500-970	3500-1070	3500-1280	4500-970	4500-1070	4500-1280	
INJECTION UNIT		UNIT	630	970	970	1070	1280	970	1070	1280
Screw Diameter	mm	45	50	50	55	60	50	55	55	60
Injection Shot Weight (GPPS)	gms	325	448	448	545	703	448	545	545	703
Theoretical Displacement	cc	342	471	471	570	735	471	570	570	735
Maximum Injection Pressure	bar	1735	1760	1760	1775	1740	1760	1775	1775	1740
Injection Rate	cc/sec	550	645	645	805	830	645	805	805	830
Injection Speed	mm/sec	345	335	335	340	300	335	340	340	300
Screw L/D Ratio		20	24	24	24	24	24	24	24	24
Injection Screw Stroke	mm	215	240	240	240	260	240	240	240	260
Screw Speed	rpm	400	350	350	350	300	350	350	350	300
Plasticizing Rate (GPPS)	gm/sec	26	50	46	50	60	46	50	50	60
No. of Heating Zones	barrel + nozzle	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1
Total Heat Capacity	KW (hp)	13 (17)	16 (21)	20 (26)	23 (30)	28 (37)	20 (26)	23 (30)	23 (30)	28 (37)
CLAMPING UNIT		UNIT								
Clamping Force	Ton	280	280	350	350	350	450	450	450	450
Distance Between Tie Bar (HxV)	mm	660 x 660	660 x 660	730 x 730	730 x 730	730 x 730	840 x 840	840 x 840	840 x 840	840 x 840
Platen Size (HxV)	mm	930 x 930	930 x 930	1035 x 1035	1035 x 1035	1035 x 1035	1210 x 1210	1210 x 1210	1210 x 1210	1210 x 1210
Mold Opening Stroke	mm	850	850	1100	1100	1100	1100	1100	1100	1100
Mold Height Minimum	mm	250	250	300	300	300	400	400	400	400
Ejector Force	Ton	8.5	8.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Ejector Stroke	mm	200	200	200	200	200	200	200	200	200
Maximum Daylight	mm	1100	1100	1400	1400	1400	1500	1500	1500	1500
Mold Weight Capacity	Kg	3800	3800	6800	6800	6800	6800	6800	6800	6800
GENERAL DATA		UNIT								
Water Requirement (Inlet Temp 26 deg.)	lpm	220	220	300	300	300	300	300	300	300
Total Oil Tank Capacity	ltrs.	850	850	1050	1050	1050	1350	1350	1350	1350
Machine Dimension	L x W x H (mtr)	6.4 x 2.1 x 2.5	6.9 x 2.1 x 2.5	8.5 x 2.4 x 3.0	8.5 x 2.4 x 3.0	8.5 x 2.4 x 3.0	8.9 x 2.4 x 3.0	8.9 x 2.4 x 3.0	8.9 x 2.4 x 3.0	8.9 x 2.4 x 3.0
Machine Weight	Kg	9800	10250	16500	16500	17000	23200	23200	23200	23500
Servo Motor	KW (hp)	32 (42)	38 (50)	45 (59)	55 (73)	55 (73)	55 (73)	55 (73)	55 (73)	55 (73)
Connected Load	KW (hp)	45 (59)	54 (71)	65 (85)	78 (103)	83 (110)	75 (99)	78 (103)	78 (103)	83 (110)



**PRIKAN**

**PRIKAN MACHINERY PVT. LTD.**



Western & Central Zone  
Shrideo Pal : +91 87795 83498

Headquarter  
Krunal Patel : +91 93211 10311

Eastern Zone  
Debajyoti Roy : +91 99038 66025