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TPII SERIES

Two Platen Plastic Molding Injection Machine

DESIGNED BY POLARIS 2023.01 / 1000PCS +886-4-24517070

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TPII SERIES

Two Platen Plastic Molding Injection Machine



TPII SERIES

Two Platen Plastic Molding Injection Machine



500-4000 CLAMPING FORCE
TONS

- The new-generation two-platen clamping mechanism exhibits exceptionally high-speed clamping features.
- Quick and accurate mold adjustment delivers flexibility of small lot production.
- Uniform force distribution on mold with four pressurizing cylinders ensures high product accuracy.
- Energy-saving and eco-friendly with its smaller footprint and no wearing problem on toggle clamp.
- High-rigidity structure with minimized deformation delivers products in consistent accuracy.
- Customizable clamping force, mold opening stroke and distance between tie bars with ease.



TPIIR SERIES

Two Platen Injection Molding Machine



1 SPACE SAVING

- **Space saving, high efficiency and energy saving:** 15% less length increases factory space utilization and higher energy efficiency that reduces customer's operation cost.

- **High-rigidity machine wall and high-performance clamping cylinders:** The structural strength is ensured through stress analysis. Minimized mold deformation is achieved with the fast and accurate clamping force, and uniform force on the machine wall.

- **Extra-long core platen support base:** Delivers smooth platen open/close operation in high parallelism without leaning forwards.

2 HIGH PERFORMANCE

3 HIGH RIGIDITY

4 ENERGY-SAVING & ECO-FRIENDLY

- **Stabilized precision with zero contact to pillars:** Worry-free on pillars surface wear because there is no friction. This keeps molding from being affected by pillar deformation and maintains machine precision. mold area clean with no pillar lubrication. Finished products are not stained with oil.

- **More customizing flexibility:** Two-platen design offers a higher degree of freedom than that of toggle clamp. This feature meets the needs of customization at a higher level.

- **Customizable multi-color/multi-set injection:** A rotary table can be equipped to this model series to achieve customized multi-color/multi-set injection for increasing finished goods' value.

5 CUSTOMIZABLE

6 MULTIPLE INJECTIONS

EXCELLENT PERFORMANCE. OUTSTANDING BENEFITS. MAXIMIZED SPACE UTILIZATION.

Electric Servo Motor For The Rotary Platen

Features high speed, high precision and stable production performance



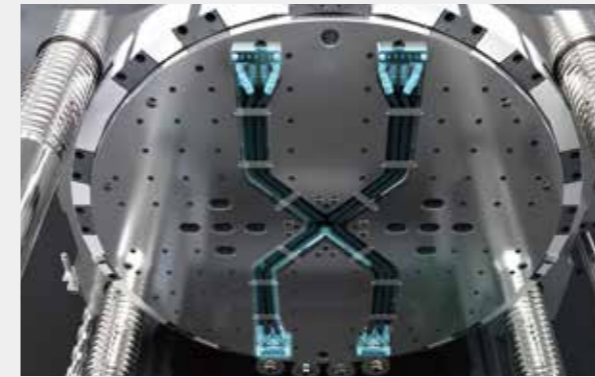
Wider Platen Design

Enlarge the rotary table diameter to load bigger mold



X Type Runner Design For Easy And Smooth Piping Connection

Capable of 6in/6out water manifold and 2 core pullers



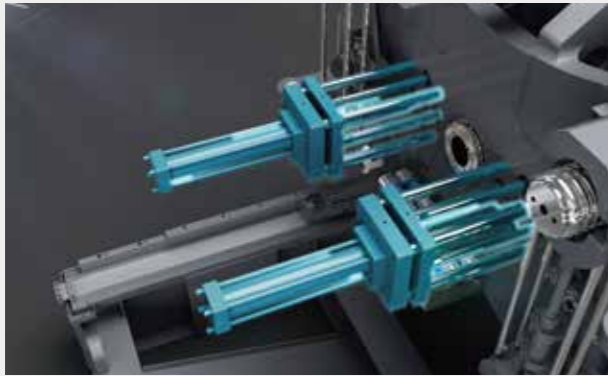
Touch Screen

With European system and 12" TFT-LCD color touch screen



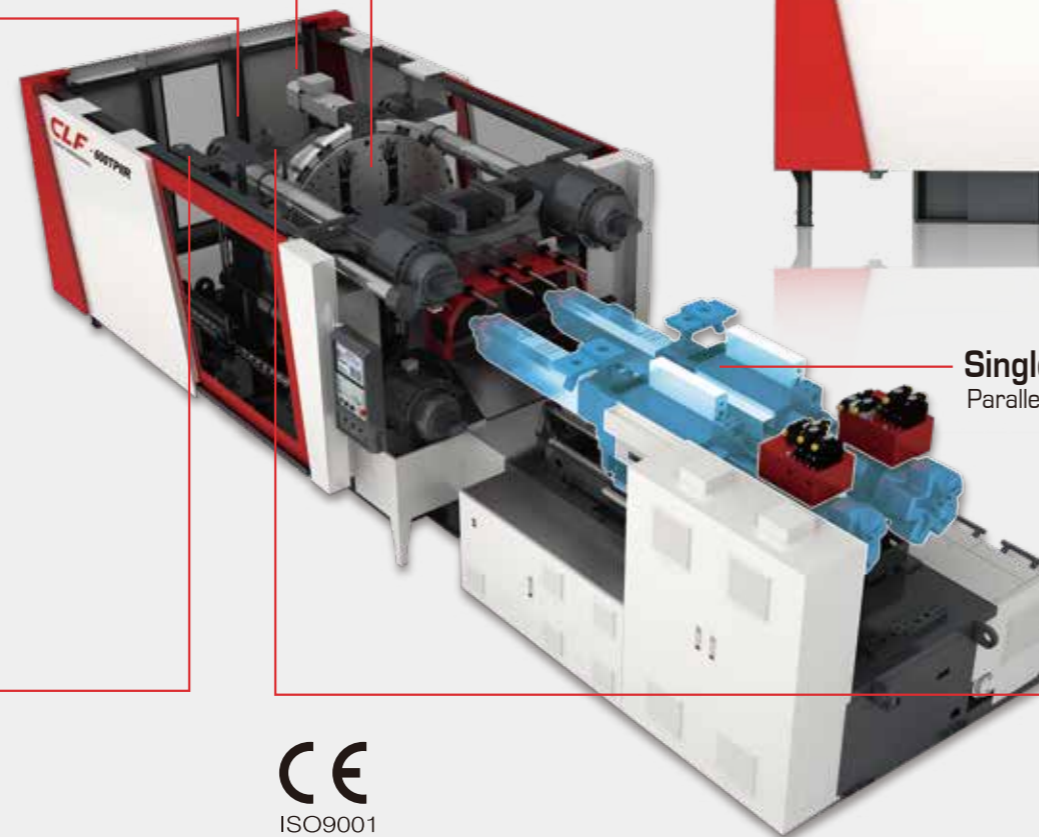
Ejector

Two sets of ejectors can be chosen according to customer's requirement



Clamping System

Simultaneous clamping movements to ensure fast and smooth clamping



Single Injection Cylinder Design

Parallel and strong structure design

Clamping Cylinder

Diagonal design, ensure smooth and high speed platen movement



FOCUSING DETAILS PERFECTING PERFORMANCE



RELINQUISH PAST GLORY AND KEEP INNOVATING

Actively learning for continuously growing and improving technology are the everlasting principles of Chuan Lih Fa Machinery. Internally, the company trains professional R&D team, and continuously innovates its products; equipment measuring 7000 tons in clamping force is being developed actively to strengthen its competitiveness in the plastic industry. Today's results are used as cornerstones in gradually developing the equipments allowing higher laticity, more precision, and more diversifications, further toward high-end product and technology.



DIVERSE MODELS PROVIDING OPTIMIZATION FOR PRODUCTION LINE



CLF PLASTIC INJECTION MOLDING MACHINES, YOUR NO. 1 CHOICE FOR ANY INJECTION MOLDING APPLICATION

All critical parts of CLF machines such as mold platen are all machined in-house by Japanese-made and domestic high precision machine tools, such as Japan Toshiba floor type jig boring machines and Japan Kotobuki double column machining center. In addition, the hole accuracy of tie bar is also controlled in house to ensure the best running efficiency and product accuracy.



MACHINE MODEL		CLF-500TPII			CLF-600TPII			CLF-750TPII			CLF-1000TPII				CLF-1200TPII		
International code		5000H - 2810			6000H - 4350			7500H - 4350			10000H - 8000				12000H - 10000		
INJECTION UNIT	UNIT	500TDI			750TDI			750TDI			1100TDI				1300TDI		
Screw diameter	mm	70	75	80	75	80	85	80	85	90	90	95	100	105	100	110	120
Theoretical injection volume	cm ³	1500	1722	1960	1988	2261	2553	2261	2553	2862	3339	3721	4123	4545	4712	5701	6785
Injection pressure	kg/cm ²	1873	1632	1434	2189	1924	1704	1924	1704	1520	2421	2173	1961	1778	2134	1763	1482
Injection speed	mm/s	98	98	98	96	96	96	96	96	96	90	90	90	90	92	92	92
Injection rate	cm ³ /sec	377	432	492	424	482	544	482	544	610	572	637	706	779	722	874	1040
Shot weight (ps)	gram	1365	1567	1783	1809	2057	2323	2057	2323	2604	3038	3386	3751	4135	4287	5187	6174
Screw rotation	rpm	182			137			137			159				122		
Nozzle Radius	mm	12.7			12.7			12.7			12.7				12.7		
No. of heating zones	zone	7		8	8			8		9	10			11	11		
Heating capacity	kw	23.7		30.6	29.1			29.1		36.6	39.3			50.4	51.8		
CLAMPING UNIT																	
Distance between tie bars (HxV)	mm	860 x 800			960 x 850			1060 x 910			1190 x 1120				1300 x 1200		
Mold platen sizes	mm	1260 x 1200			1380 x 1270			1500 x 1350			1780 x 1780				1900 x 1800		
Mold Height	mm	350 - 900			400 - 1000			450 - 1100			500 - 1200				500 - 1300		
Max. Die Opening Stroke	mm	1350			1500			1650			1900				2100		
Daylight	mm	1700			1900			2100			2400				2600		
Clamping force	ton	500			600			750			1000				1200		
Dia.of Centering Ring	mm	160			200			200			250				250		
Ejector stroke	mm	200			250			250			300				300		
Ejector Force	ton (kn)	11 (110)			13 (133)			13 (133)			26 (260)				26 (260)		
GENERAL DATA																	
Pump driving motor	kw	60			75			75			105				120		
Oil tank capacity	liter	750			1000			1000			1500				1700		
Machine size (L x W x H)	m	7 x 2.4 x 2.5			8.3 x 2.48 x 2.15			8.5 x 2.67 x 2.2			10 x 2.9 x 2.5				11 x 3.4 x 2.8		
Net weight	ton	17			25			30			40				55		

*All specification, dimensions and design characteristics shown in this catalogue are subject to change without notice.

MATCHING SELECTION OF CLAMPING FORCE AND INJECTION UNIT

	STANDARD					OPTIONAL				
CLAMPING UNIT	500TDI	750TDI	1100TDI	1300TDI	1500TDI	1800TDI	2200TDI	2800TDI	3500TDI	4200TDI
INJECTION UNIT	2810	4350	8000	10000	12200	16700	23920	38800	53600	77300
500TPII										
600TPII										
750TPII										
1000TPII										
1200TPII										
1500TPII										
1800TPII										
2500TPII										
3000TPII										
3500TPII										
4000TPII										

MACHINE MODEL		CLF-1500TPII			CLF-1800TPII		CLF-2500TPII		CLF-3000TPII		CLF-3500TPII		CLF-4000TPII	
International code		15000H - 12200			18000H - 16700		25000H - 23920		30000H - 38800		35000H - 53600		40000H - 77300	
INJECTION UNIT	UNIT	1500TDI			1800TDI		2200TDI		2800TDI		3500TDI		4200TDI	
Screw diameter	mm	110	120	130	130	140	150	160	160	175	190	200	215	230
Theoretical injection volume	cm ³	6177	7351	8627	9623	11160	14137	16084	22116	26458	34023	37699	48104	55050
Injection pressure	kg/cm ²	1978	1662	1416	1738	1498	1692	1487	1756	1467	1577	1423	1606	1403
Injection speed	mm/s	91	91	91	88	88	86	86	79	79	68	68	69	69
Injection rate	cm ³ /sec	864	1029	1207	1168	1354	1519	1729	1588	1900	1927	2136	2505	2866
Shot weight (ps)	gram	5621	6689	7850	8756	10155	12864	14636	20125	24076	30960	34306	43774	50095
Screw rotation	rpm	125			100		97		75		66		65	
Nozzle Radius	mm	12.7			12.7		12.7		12.7		12.7		12.7	
No. of heating zones	zone	11		13	14	15	12	12	11		15		15	
Heating capacity	kw	51.8		62.8	66.9	72.3	74.6	84.2	101.8		115.5		163.2	
CLAMPING UNIT														
Distance between tie bars (HxV)	mm	1500 x 1300			1650 x 1400		1900 x 1600		2000 x 1800		2250 x 1900		2400 x 2000	
Mold platen sizes	mm	2100 x 1900			2300 x 2050		2700 x 2400		2900 x 2700		3030 x 2680		3300 x 2900	
Mold Height	mm	600 - 1400			700 - 1600		800 - 1800		900 - 1900		900 - 2100		1000 - 2200	
Max. Die Opening Stroke	mm	2300			2600		2900		3000		3200		3300	
Daylight	mm	2900			3300		3700		3900		4100		4300	
Clamping force	ton	1500			1800		2500		3000		3500		4000	
Dia.of Centering Ring	mm	250			250		315		315		315		315	
Ejector stroke	mm	300			330		400		500		500		500	
Ejector Force	ton (kn)	26 (260)			34 (340)		53 (530)		73 (730)		73 (730)		73 (730)	
GENERAL DATA														
Pump driving motor	kw	135			150		210		225		225		300	
Oil tank capacity	liter	1900			2200		2700		3000		3300		4000	
Machine size (L x W x H)	m	11.5 x 3.6 x 2.9			13.5 x 4 x 3.5		14.5 x 4.5 x 3.9		17 x 4.72 x 4.03		18 x 5 x 4.13		19.7 x 5.5 x 4.5	
Net weight	ton	75			100		140		160		185		210	

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MATCHING SELECTION OF CLAMPING FORCE AND INJECTION UNIT

STANDARD OPTIONAL

CLAMPING UNIT	500TDI	750TDI	1100TDI	1300TDI	1500TDI	1800TDI	2200TDI	2800TDI	3500TDI	4200TDI
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