

JONWAI

2-Platen Large Injection Molding Machine

TP Series



www.jonwai.com

Two Platen

Advantage & Features

Compact & Saving

- The Unique 2-platen Clamping Mechanism Reduce the floor space over 21% than conventional 3 platen machine.
- The hydraulic oil is reduced to less than 50% of conventional machine . As design on dividing the clamping cylinders into Booster cylinder for mold movement and High pressure cylinder for mold locking.

Rigid Mechanism

- High intensive Box-Like structure casting platen with solid ribs which optimum rigidity with 3-D design and Finite-Element Analysis. The clamping force is perfectly distributed and minimizes mold deflection and stress & wear on the mold parts.
- High Pressure locking cylinders are independent and not integrated with the casting platen. Without potential oil leaking risk caused by casting holes.
- Mold high adjustment done by direct hydraulic instead of adjustment mechanism. Less mechanical parts imply less malfunction and less maintenance.
- Powerful mold opening force design, opening force is 9% of mold closing force.

More Accurate

- Mold open/close drive by 2 booster cylinder in angular position. During travel , the moving platen is supported by large / solid steel / adjustable sliding shoe. This allow the moving platen travel smooth , steady and guarantee the platen absolute parallelism.
- JONWAI patented Mold locking semi-circle intermeshing nuts provide more accurate and faster nuts fixed position.

More flexible and modularity

- Mold height and clamp stroke could be increased and customizable according to customer require.
- Platens size and tie-bar distance could be increased and customizable according to customer require.
- Free combination of injection units and clamping units big benefits for customers procurement.

Faster Production

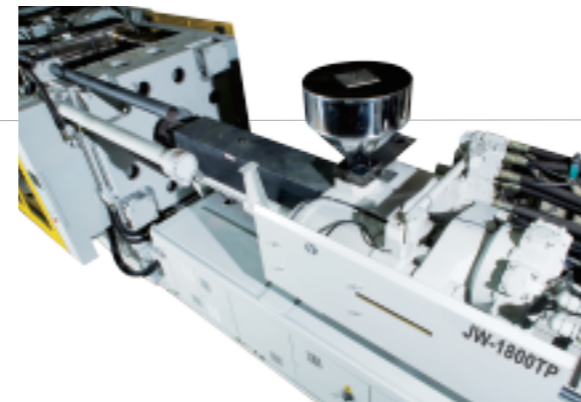
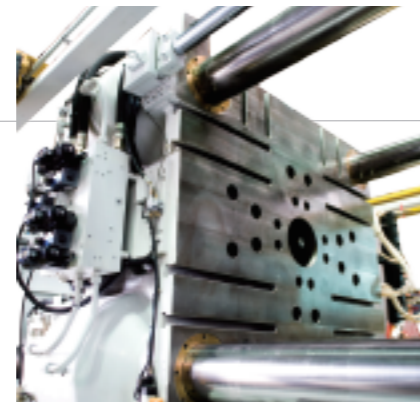
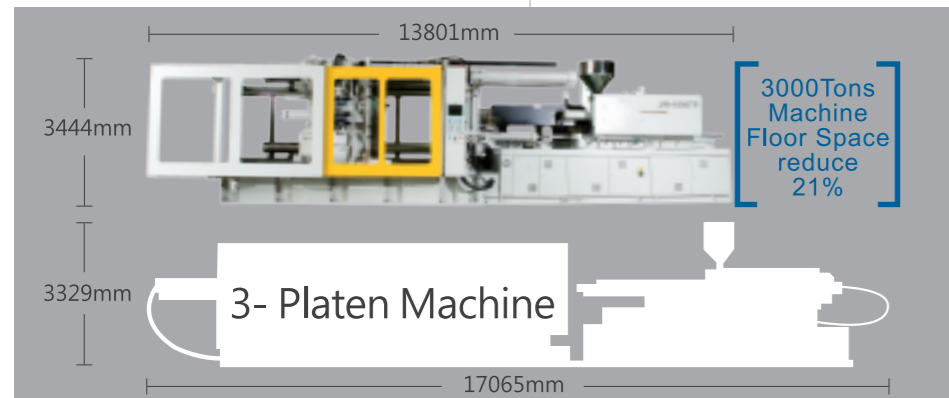
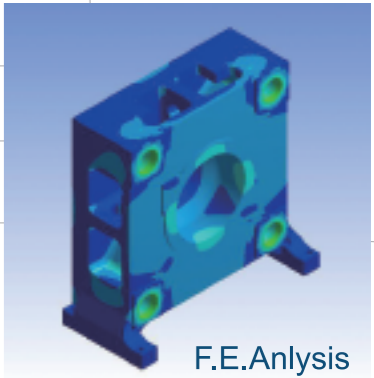
- Mold high adjustment done by direct hydraulic cylinder instead of mold high adjustment mechanism , easy and fast on mold.
- High Pressure Mold locking by 4 sets of semi-circle intermeshing nuts mechanism which drive by 4 sets of high pressure hydraulic cylinders.
- Semi-circle intermeshing nuts mechanism and high pressure hydraulic cylinder is separate and no contact with tie- bar. This design allow the semi-circle intermeshing nuts fixed position simultaneously during mold fast close. By this unique design the cycle time was reduced effectively (JON WAI patented design)
- When semi-circle intermeshing nuts fixed position, only high-pressure cylinders and intermeshing nuts working, the total weight is light and operating time is shorter. By this unique design the cycle time was reduced effectively (JON WAI patented design)

Easier operation

- High pressure mold locking hydraulic cylinders are on the movable platen. Fixed platen design is tidy and neat, which leaves more space for operating.
- Tie bars and high pressure mold locking hydraulic cylinders are detached without contact, maintenance easier.
- Independent clamping cylinders are not integrated with platen casting, replace oil seals easier.
- Tie bars and clamping cylinder are detached without contact, No need to disassemble tie bars while replacing oil seals. No need to disassemble cylinders while changing tie bars.

AC Synchronous servo power saving system

TP series optional with AC Synchronous servo power saving System Integrating all of the excellent features such as energy efficiency water saving , hydraulic oil saving , quiet operation and precision molding.



Specification

CLAMPING UNIT		JW-850TP			JW-1500TP			JW-1800TP			JW-2500TP			JW-3000TP			JW-3500TP		
CLAMPING FORCE	ton	850			1500			1800			2500			3000			3500		
DISTANCE BETWEEN TIE-RODS	mm	1100×1000			1520×1350			1800×1410			2000×1600			2200×1800			2200×2000		
PLATEN SIZE	mm	1620X1520			2150X1980			2500X2110			2820X2420			3120X2720			3180X2980		
OPEN DAYLIGHT	mm	2250			2900			3400			3700			4300			4300		
EJECT STROKE	mm	300			300			350			400			500			500		
INJECTION UNIT		i085tp			i150tp			i180tp			i220tp			i250tp			i300tp		
SCREW DIMETER	mm	100	110	120	120	130	140	130	140	150	150	160	170	160	170	180	180	190	200
INJECTION CAPACITY	cm ³	3769	4561	5428	7464	8760	10159	9954	11545	13253	15372	17487	19747	20106	22698	25447	41678	50914	61073
SHOT SIZE	gr	3331	4031	4798	6597	7443	8980	8799	10205	11715	13585	15455	17455	1773	20065	22495	25868	28832	31937
INJECTION PRESSURE	mm	1989	1643	1381	1870	1593	1374	1797	1549	1349	1682	1478	1309	1802	1596	1424	1705	1530	1381

- Mold height and clamp stroke customizable according to customer require
- Free combination of injection units and clamping units
- Platens size and tie-bar distance customizable



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