



ASIAN PLASTIC MACHINERY CO., LTD



Super Master

Energy Saving (Closed Loop) Dual-Color Injection Molding Machine

DC Series with Double Toggle Design

Super Master DC series tackles the problems that dual color injection molding machines historically face since it adopts four specific designs on the clamping unit to facilitate the efficiency of rotary table.

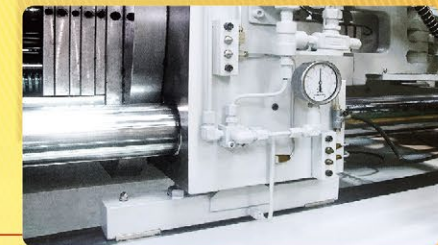
The design of multi-stage speed reduced function effectively eliminates rotary inertia and adopts mechanical orientation for rotary table.



The machine can achieve dual-purpose by operating with rotary table and spindle alternatively.



The balance design of moving platen keeps the precision of levelness in operation by adjusting rotary table according to mold weight to protect guide pins and ensure mold closing precisely.



The balance design of rotary table effectively keeps balance on mold to avoid table leaning forward and hold the mold stable without damaging guide pins.



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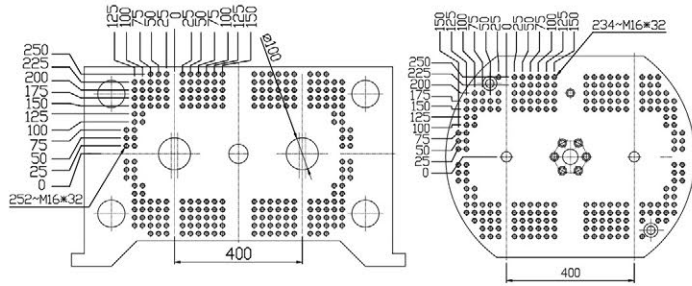
Technological Innovative Efficient

Specification

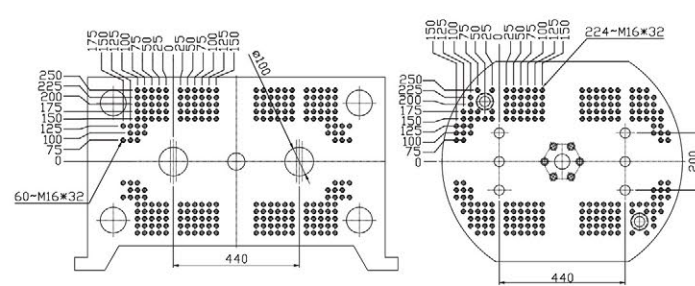
Machine Model	Unit	SM180DCV	SM230DCV	SM300DCV	SM450DCV	SM600DCV	SM800DCV	SM1000DCV	SM1250DCV	SM1500DCV
Injection System		A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B
Theoretical shot volume	cm ³	49 64 80	121 163 211	198 257 324	369 465 594	515 658 876	722 807 961	722 807 961 807 961 1198	772 807 961 1410 1539	1539 1766
Shot Weight(PS)	g	45 59 74	111 150 194	183 237 298	340 428 547	476 605 806	664 743 884	664 743 884 743 884 1102	664 743 884 1297 1416	1416 1625
Screw Diameter	mm	22 25 28	31 36 41	36 41 46	41 46 52	46 52 60	52 55 60	52 55 60 55 60 67	52 55 60 67 70	70 75
Injection Pressure	kg/cm ²	3180 2463 1963	2969 2202 1698	2463 1899 1509	2933 2330 1824	2542 1989 1494	2282 2040 1714	2282 2040 1714 2594 2180 1748	2282 2040 1714 1955 1791	1991 1734
Injection Speed	mm/sec	150	130	110	120	110	130	130	130	120
Injection Rate	cm ³ /sec	59 76 95	98 132 172	118 154 193	159 200 256	188 240 320	286 320 381	286 320 381 360 428 534	286 320 381 477 521	469 538
Opening Stroke	mm	130	160	195	280	310	340	340	340	400
Screw Rotation	rpm	280	260	170	140	110	140	140	200	140
Clamping System										
Clamping Force	ton	180	230	300	450	600	750	1000	1250	1500
Opening Stroke	mm	355	410	450	600	680	780	920	1000	1100
Max. Daylight	mm	815	960	1050	1400	1580	1930	1930	2400	2700
Mold Height(min-max)	mm	150~460	200~550	250~600	300~800	300~900	350~1150	500~1250	500~1420	500~1600
Space Between Tie Bar	mm	710*290	770*320	870*400	1100*520	1120*750	1250*850	1450*1000	1620*1100	1800*1240
Rotary Table	mm*mm	782*630	840*700	1000*770	1230*1090	1370	1550	1780	1980	2230
Space between nozzle	mm*mm	380~400~420	420~440~460	460~480~500	580~600~620	630~650~670	700~720	700~720	900	1000
Hydraulic Ejector	ton*mm	2.7*100	2.8*140	2.8*150	3.5*170	3.5*200	4.6*220	7.9*250	7.9*300	7.9*300
Ejector Number	pc	1*2	3*2	3*2	5*2	5*2	9*2	13*2	13*2	13*2
Power System										
Pump Motor	kw	11/11	15/15	15/15	22/22	11+15/11+15	11+22/11+22	11+22/11+22 22+22/22+22	11+22/11+22 22+22/22+22	22+22/22+22
Heating Capacity	kw	3.5*2	5.5*2	6.8*2	12*2	14.1*2	15.3*2	17*2	21*2	25.1*2
Max. System Pressure	kg/cm ²	140	140	140	140	140	140	140	140	140
Oil Tank Capacity	liter	480	480	700	900	1200	1400	1700	2000	2400
Machine Dimension	m	5200*1500*2000	5600*1650*2100	6600*1800*2300	8500*2800*3000	9500*3000*3200	11500*3800*3200	12500*4000*3500	13000*4300*3700	14000*4500*4000
Machine Weight	ton	10	11	14.5	28	38	50	70	82	125

NOTE: The above figures are applicable for the voltage/frequency of 220V/60Hz (Specifications may be changed without prior notice.)

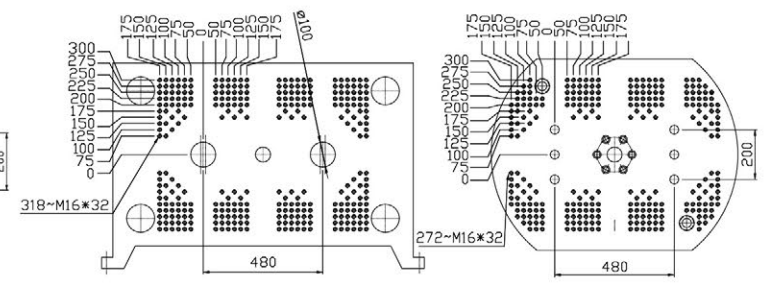
Mold Platen size



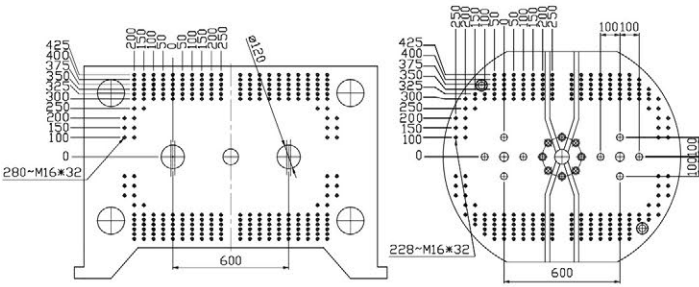
▲SM180DCV



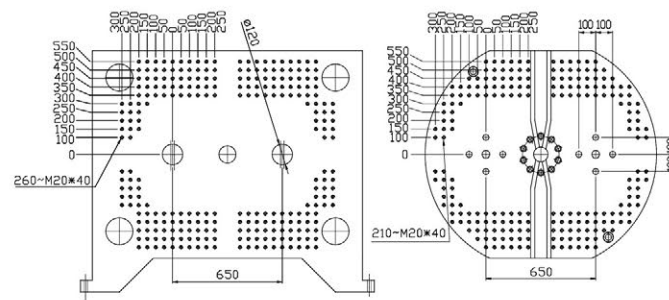
▲SM230DCV



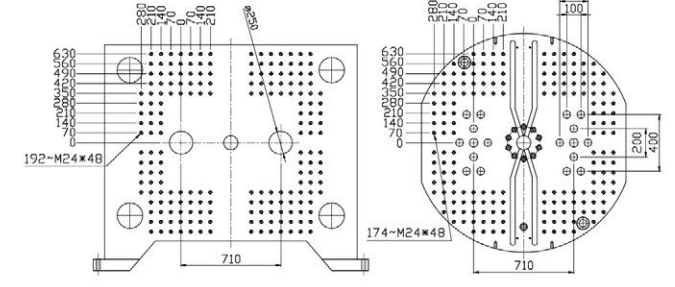
▲SM300DCV



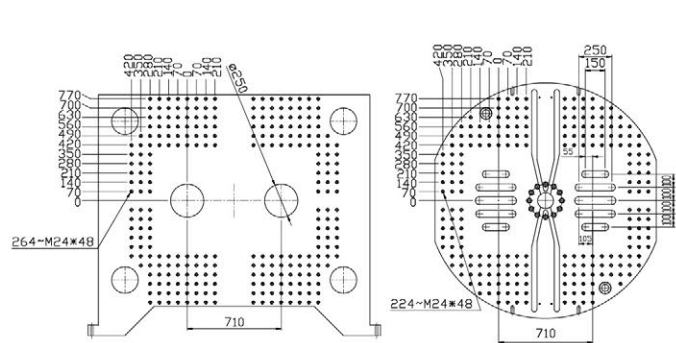
▲SM450DCV



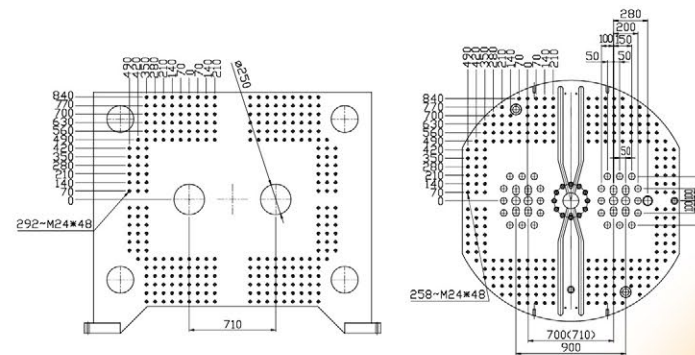
▲SM600DCV



▲SM800DCV



▲SM1000DCV



▲SM1250DCV



Machine Efficiency



Improve the lubrication system of toggle pin to facilitate lubricating oil used efficiently which can save up to 50% consumption for cost down.



Be able to employ different types of injection unit in order to increase the manufacturing variety on product.



The low-inertia structure of injection cylinder attains the extraordinary reliability in high speed working condition.



Simple design of mold height structure for maintenance time reduction.



SM DC series adopts widen space between tie bars and it leads high compatibility in matching various types of mold.



The adoption of servo motor system promotes the efficiency of machine performance.

+ **+** In addition, the mold cooling system can be set in the center of rotary table or stationary platen. Anti-fatigue of metal adopts special design of tie bar knots to share the strain of tie bars during high pressure locking and it contributes to the longer working life and less maintenance requirement.



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ISO 9001/14001

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