修订日期：2022年9月　印刷日期：

SOUND 申达

(4500-40000KN)

Dual-plate Injection Molding machine

Dou-Power Series

浙江申达机器制造股份有限公司
ZHEJIANG SOUND MACHINERY MANUFACTURE CO.,LTD.

地址：杭州市西湖区转塘村口208号
国内销售中心
电话：+86-572-8232315 8232103
传真：+86-572-8232191
国际销售中心
电话：+86-572-8232131
传真：+86-572-8232291
售后服务中心
电话　+86-572-8232023
传真　+86-572-8232023

德清申达机器制造有限公司
DEQING SOUND MACHINERY MANUFACTURE CO.,LTD.

工厂地址：浙江省湖州市德清县环城北路618号

www.injectionmachine.com

浙江省二轻集团 •浙江申达机器制造股份有限公司

ENTERPRISE

INTRODUCTION

Enterprise Introduction

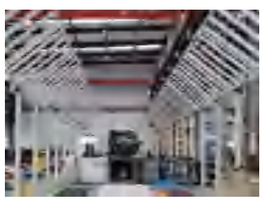
Founded in 1955, ZHEJIANG SOUND MACHINERY MANUFACTURE CO., LTD is one of the earliest professional manufacturers of injection molding machine in China, which is affiliated to ZHEJIANG ARTIKING GROUP CO., LTD . SOUND is the pioneer of China's plastic machinery industry, the first batch of national high-tech enterprises in the industry, the key enterprise of "a Group of Five" in Zhejiang province. SOUND has won the only National Silver Award in domestic plastic machinery industry, the second prize of National Science and Technology Progress Award, the frist prize of Zhejiang Science and Technology Progress Award, etc. SOUND has scientific research institutions such as academician expert workstation, national post-doctoral scientific research workstation, provincial enterprise research institute, provincial enterprise technology center and provincial engineering research center. SOUND has obtained more than 180 patents and 16 invention patents.

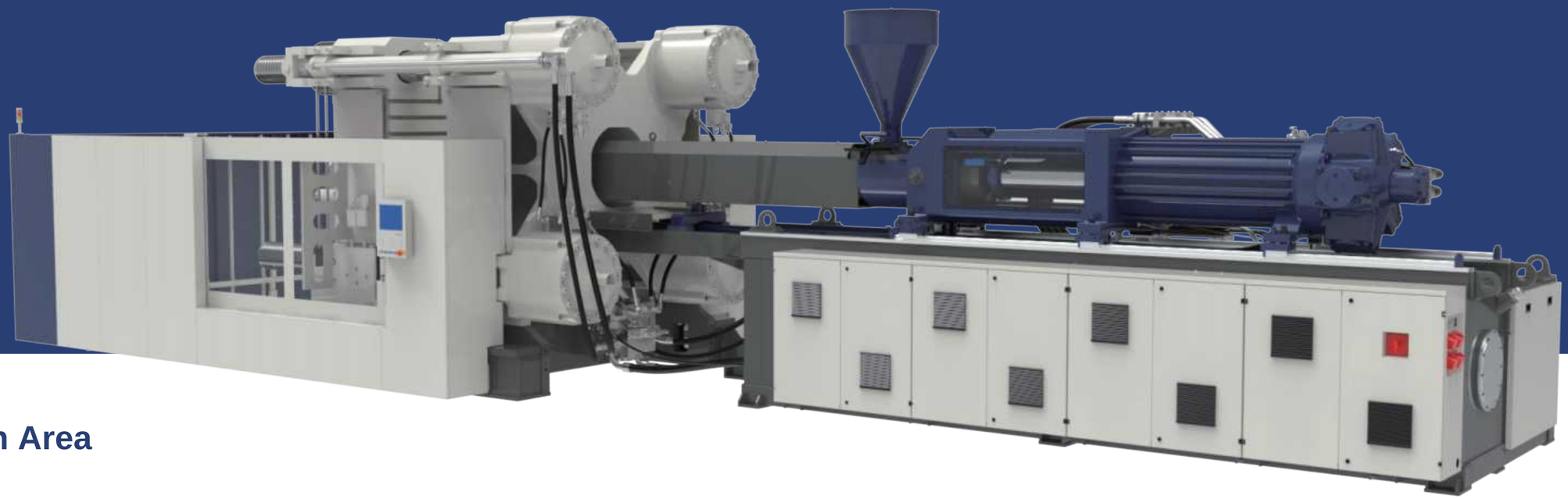
In 2020, DEQING SOUND manufacturing base, with a total investment of RMB700 million and a covering area of 133,000m , had been completed and put into production. The base is equipped with more than 70 sets first-class processing equipments and testing equipments, including Czech SKODA floor-type boring and milling machining center, Japanese NIIGATA FMS flexible machining system, Japanese KURAKI planer table-type boring and milling machining center, Japanese Mitsubishi Gantry pentahedron machining center, Japanese OKUMA CNC lathe, Italian HEXAGON CMM three-coordinate measuring machine. It can achieve an annual production capacity of more than 6,000 sets injection molding machines.

SOUND successfully lauched the 3rd generation high-efficiency precision universe series (UN), dual-plate series (DP), full electric series (FE), electric mixed hydraulic series (EMH), extrusion-injection integrated series for large volume (FJ), multi-component series and nearly 100 special models machine. The clamping force of machines is from 1,000KN to 60,000KN, and shot weight is from 100g to 550,000g. SOUND had exported the injection molding machines to more than 60 countries and regions such as Japan, France, Saudi Arabia, India, Indonesia, Russia and USA.

Facing the future, SOUND insists on customer-oriented, employee-oriented, innovation as the source, constantly surpassing itself and creating value, focusing on the one-stop overall solution for the future injection molding factory, and making SOUND a benchmark enterprise for intellligent manufacturing in the plastic injection machinery industry.





Application Area

Household appliances
(Air condition case)

Automotive Industry
(Bumper/Lights/Interior and Exterior Trim)

Deep cavity products
(dustbin)

Logistics products
(pallets)

Led by a professional international technical team, the perfect integration of European technology and more than 60 years of experience in product market application, ingenuity to create Dou-Power series of Dual-Plate injection molding machine, to create unlimited value for customers!

Accurate open and close mold position

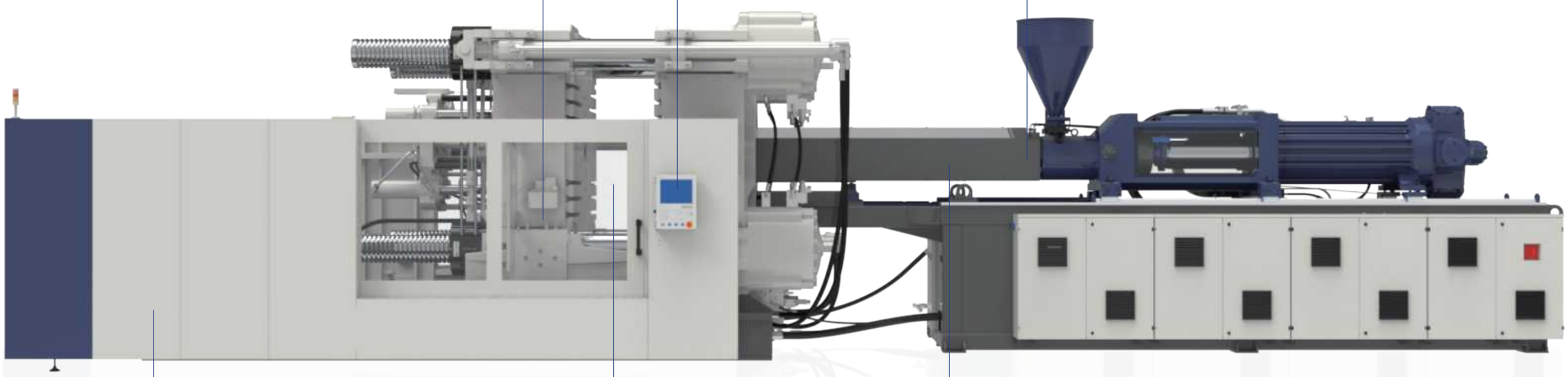
Position accuracy of mold open and close is ±0.2mm, meet higher requirements of automatic robot

Precise intelligent control system

Fast response, short scanning time, accurate control, strong digital analysis ability, open a new era of intelligent Internet of Things factory

Excellent injection stability

Injection position accuracy ±0.2mm, product repetition accuracy ⩽5‰



Smaller space occupancy

Compared with the three plate machine, this machine covers a small area, effectively improve the plant utilization rate, greatly reduce the cost of investment

Larger mold holding space

Large mold opening stroke, mold open and close stroke is not limited by the structure, can be increased according to the needs of the process

Strong adaptability

Modular mechanical, hydraulic, electrical design, configuration combination is more flexible and convenient, can meet the personalized needs of customers

Stable, High efficient and High precision

Clamping Unit

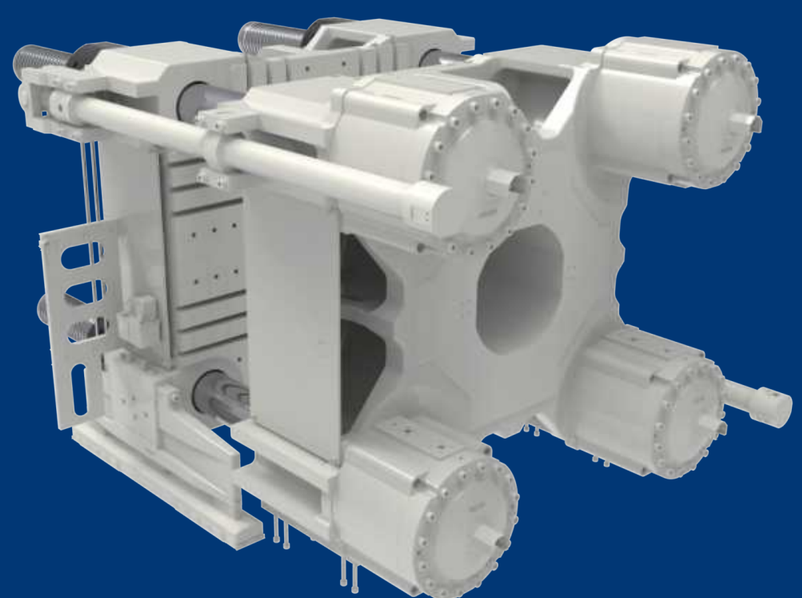
- High rigidity and high parallelism plate,

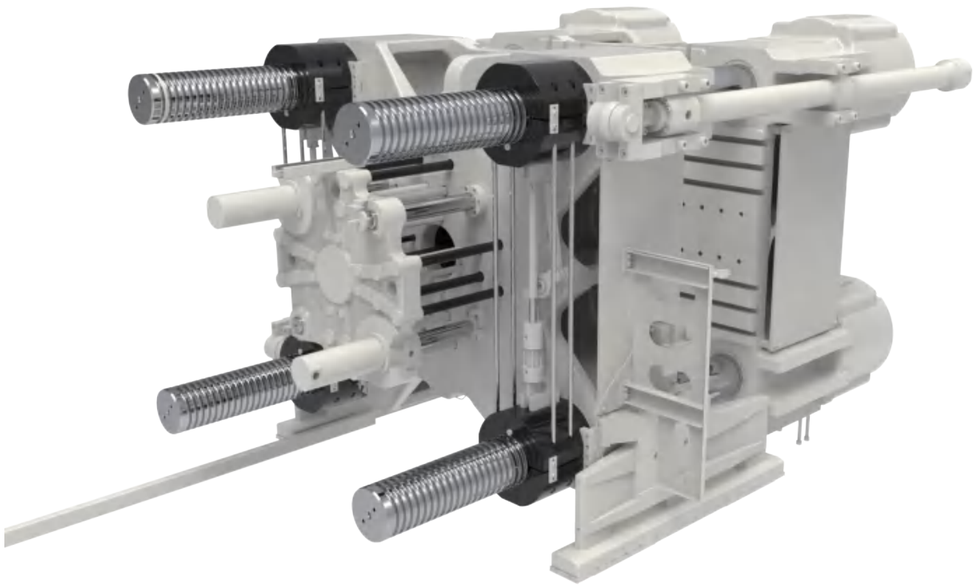
  A、Plate deformation is small, mold deformation is small, machine and mold has long life;

  B、Short dry cycle, high efficiency and energy saving;

  C、High precision products, less flesh, save material
- Position accuracy of mold open and close is ±0.2mm, meet higher requirements of automatic robot;
- Box-type clamping body structure design, make the machine stable, more stable operation;
- T type high rigid linear sliding guide

  Stable plate support system, give the plate fast and smooth operation to provide guarantee;





- Synchronous lock system, lock fast, stable, accurate and reliable;
- Short stroke high pressure cylinder design, quick response to pressure construction, pressure holding more stable and longer;

  Piston connection by floating structure, force is more reasonable;

  Oil circuit adopts European technology - open and close mold action control more fast and stable;
- Non-Contact Tie Bar

  Frictionless, low energy consumption;

  Excellent mold protection device;

  Clean and tidy mold area;

Compact, stable, accurate , High efficient and energy-saving

Injection Unit

- Single cylinder injection system, compact structure, low inertia, high injection precision and energy saving;
- High rigid injection structure
- Low friction injection cylinder, fast response, high injection accuracy, high efficiency, more energy saving;
- Suckback using small oil cavity, injection resistance is small, efficient, accurate and energy saving; quick plasticizing unit disassembly structure
- Convenient disassembly can meet the free combination of different injection molding units by different customers;
- Stable temperature control at feeding port.
  The temperature stability of the feeding port is incorporated into the temperature closed-loop control unit to improve the accuracy and efficiency of the injection unit and avoid the phenomenon of low injection accuracy caused by raw material caking and bad feeding.

- Plasticizing system from Europe
  European advanced screw design technology, meet different specifications of screw diameter, wear grade, geometric shape and special mixing requirements, a wide range of application and strong adaptability;
  It can be customized different complex process requirements, different application requirements of the special plasticizing system;
  Large L/D ratio to ensure that each type of screw can achieve the best plastination effect and efficiency

Injection position accuracy ±0.2mm, product repetition accuracy ≤5%

Compact, stable, accurate , High efficient and energy-saving

SOUND

Hydraulic mold unit

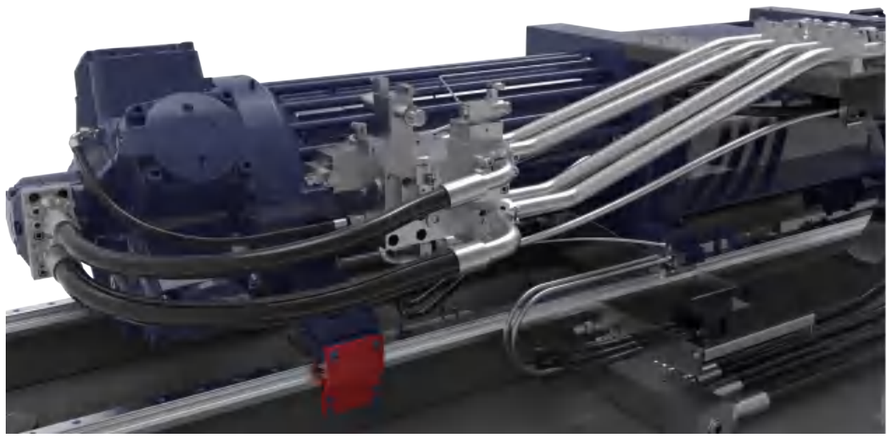
High efficiency and stability

- Open and close mold controlled by proportional valve

  Open and close mold more stable, accurate; The mold is safer; the products have Higher qualified rate;
- Independent filter cooling system

  The space occupies less, the cooling effect is good, the oil temperature is constant, is not affected by the cycle time of the open and close mold and the external factors, the machine runs smoothly;
- High response oil circuit of open and close mold

  Fast response, high pressure holding long time, more stable open and close mold;
- The back pressure controlled by proportional valve, the product precision is higher



Control system

Accurate and stability

DP series dual-plate injection molding machine, using Austria KEBA control system special for dual-plate machine, strong function, can implement precise control of pressure, speed, temperature, position, etc., the system is stable, reliable, safe, user-friendly, easy to operate, good application experience,

Specification And Configuration

4500-40000KN 锁模/注射配置 Combination Passibination Possibilities	Dual-plate Injection Molding machine									可选配置/Combination possibilities				
注射单元 Injection unit / 锁模单元 Clamping unit	SP1700	SP2400	SP3600	SP4700	SP6500	SP9700	SP12600	SP19300	SP26000	SP32800	SP40600	SP52700	SP72200	SP92500
DP450		■												
DP650				■										
DP900					■									
DP1100						■								
DP1300							■							
DP1600								■						
DP1850									■					
DP2100										■				
DP2400											■			
DP2800												■		
DP3300													■	
DP4000														■

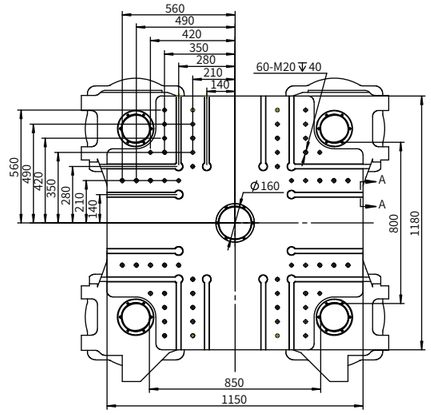
Specification And Configuration

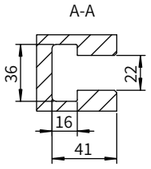
DP450													
Clamping Unit	DP450												
Clamping Force	4500												
Space Between Tie Bar(HXV)	850X800												
Max Mold Height	900												
Min Mold Height	350												
Ejector Stroke	250												
Ejector force	110												
Max Distance Between platens(Daylight)	1450												
Max Toggle Stroke①	1100												
Max Mold Weight②	6.5												
Injection Unit		**SP1700**			**SP2400**			**SP3600**			**SP4700**		
Injection Unit		1696			2425			3619			4781		
Screw Diameter	mm	55	60	70	60	70	80	70	80	90	80	90	100
Screw L/D ratio	L/D	24.0	22.0	18.8	25.6	22.0	19.5	25.1	22.0	19.6	24.7	22.0	19.8
Shot Volume(Theoretical)	cm³	713	848	1155	990	1347	1759	1539	2011	2545	2262	2863	3534
Shot Weight(PS)	g	656	780	1062	910	1239	1619	1416	1850	2341	2081	2634	3252
Injection Pressure	bar	2380	2000	1469	2450	1800	1378	2351	1800	1422	2114	1670	1353
Injection Speed	mm/s	124	124	124	120	120	120	120	120	120	105	105	105
Injection Rate	cm³/s	295	351	477	339	462	603	462	603	763	528	668	825
Screw Rotation Speed	r/min	230			200			190			165		
Plasticizing Capacity(PS)④	mm	32.6	51.8	79.4	45.0	69.0	99.7	65.6	94.7	130.8	82.2	113.6	140.3
Heating Zone	mm	6			6			6			7		
Nozzle Force	mm	82			82			82			129		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	55.6			59.8			68.3			75.4		
Heating Power	kW	27			33			39			48		
Machine Size⑤	m	6.6X2.2X2.4			6.8X2.2X2.4			7X2.2X2.4			7.2X2.2X2.5		
Machine Weight	ton	17.5			18			19			20		
Oil tank Capacity	L	700			730			850			980		

The machine size will be changed depending on the combination of clamping unit and injection unit. The above size is used as a parameter only!

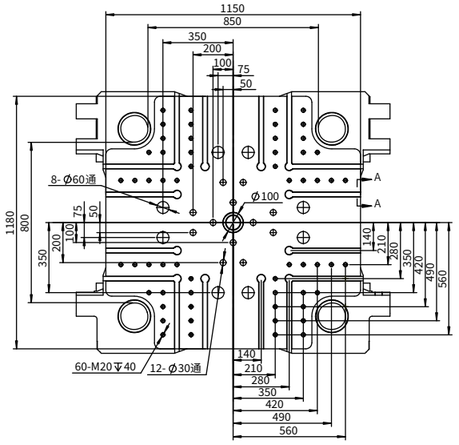
Sound Machinery reserves the right to make technical changes without prior notice!

DP450 Fixed mold Platen

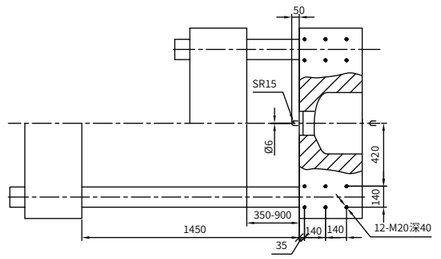




DP450 Moving mold Platen



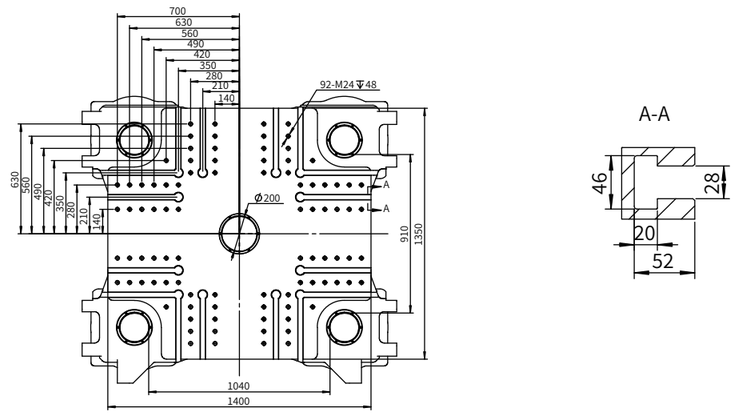
DP450 Mold Height Size Figure



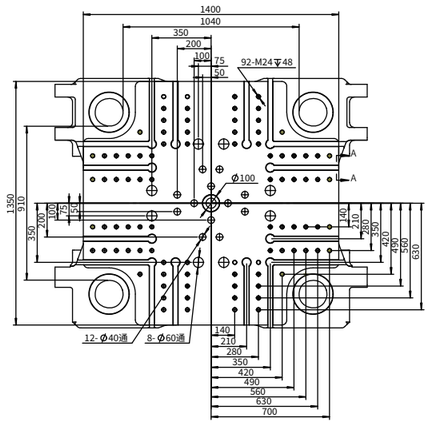
Specification And Configuration

DP650													
Clamping Unit		DP650											
Clamping Force		6500											
Space Between Tie Bar(HXV)		1040X910											
Max Mold Height		950											
Min Mold Height		400											
Ejector Stroke		250											
Ejector force		110											
Max Distance Between platens(Daylight)		1750											
Max Toggle Stroke①		1350											
Max Mold Weight②		9.5											
Injection Unit		**SP2400**			**SP3600**			**SP4700**			**SP6500**		
Injection Unit		2425			3619			4781			6597		
Screw Diameter	mm	60	70	80	70	80	90	80	90	100	90	100	110
Screw L/D ratio	L/D	25.6	22.0	19.5	25.1	22.0	19.6	24.7	22.0	19.8	24.4	22.0	20.0
Shot Volume(Theoretical)	cm³	990	1347	1759	1539	2011	2545	2262	2863	3534	3181	3927	4752
Shot Weight(PS)	g	910	1239	1619	1416	1850	2341	2081	2634	3252	2926	3613	4372
Injection Pressure	bar	2450	1800	1378	2351	1800	1422	2114	1670	1353	2074	1680	1388
Injection Speed	mm/s	120	120	120	120	120	120	105	105	105	110	110	110
Injection Rate	cm³/s	339	462	603	462	603	763	528	668	825	700	864	1045
Screw Rotation Speed	r/min	200			190			165			135		
Plasticizing Capacity(PS)④	mm	45.0	69.0	99.7	65.6	94.7	130.8	82.2	113.6	140.3	92.9	114.8	155
Heating Zone	mm	6			6			7			7		
Nozzle Force	mm	82			82			129			129		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	59.8			68.3			75.4			92.7		
Heating Power	kW	33			39			48			54		
Machine Size⑤	m	7.4X2.6X2.6			7.6X2.6X2.6			7.8X2.6X2.6			8X2.6X2.7		
Machine Weight	ton	22			23			24			26		
Oil tank Capacity	L	310			850			980			1300		

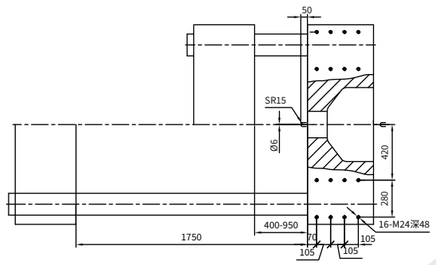
DP650 Fixed mold Platen



DP650 Moving mold Platen



DP650 Mold Height Size Figure



The machine size will be changed depending on the combination of clamping unit and injection unit. The above size is used as a parameter only!
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Specification And Configuration

Mold

DP900													
Clamping Unit	DP900												
Clamping Force	9000												
Space Between Tie Bar(HXV)	1180X1000												
Max Mold Height	1100												
Min Mold Height	500												
Ejector Stroke	300												
Ejector force	195												
Max Distance Between platens(Daylight)	2100												
Max Toggle Stroke①	1600												
Max Mold Weight②	13												
Injection Unit		**SP3600**			**SP4700**			**SP6500**			**SP9700**		
Injection Unit		3619			4781			6597			9717		
Screw Diameter	mm	70	80	90	80	90	100	90	100	110	100	110	120
Screw L/D ratio	L/D	25.1	22.0	19.6	24.7	22.0	19.8	24.4	22.0	22.0	25.3	23.0	21.0
Shot Volume(Theoretical)	cm^3	1539	2011	2545	2262	2863	3534	3181	3927	4752	4752	5750	6842
Shot Weight(PS)	g	1416	1850	2341	2081	2634	3252	2926	3613	4372	4372	5290	6295
Injection Pressure	bar	2351	1800	1422	2114	1670	1353	2074	1680	1388	2045	1690	1420
Injection Speed	mm/s	120	120	120	105	105	105	110	110	110	106	106	106
Injection Rate	cm^3/s	462	603	763	528	668	825	700	864	1045	833	1007	1199
Screw Rotation Speed	r/min	190			165			135			125		
Plasticizing Capacity(PS)④	mm	65.6	94.7	130.8	67.3	92.9	114.8	92.9	114.8	155.0	106.3	143.5	207.3
Heating Zone	mm	6			6			7			7		
Nozzle Force	mm	82			129			129			166		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	68.3			75.4			92.7			119.4		
Heating Power	kW	39			48			54			83		
Machine Size⑤	m	7.4X2.8X2.7			7.6X2.8X2.7			7.8X2.8X2.7			8X2.8X2.8		
Machine Weight	ton	32			34			35			37		
Oil tank Capacity	L	850			980			1300			1700		

The machine size will be changed depending on the combination of clamping unit and injection unit. The above size is used as a parameter only!
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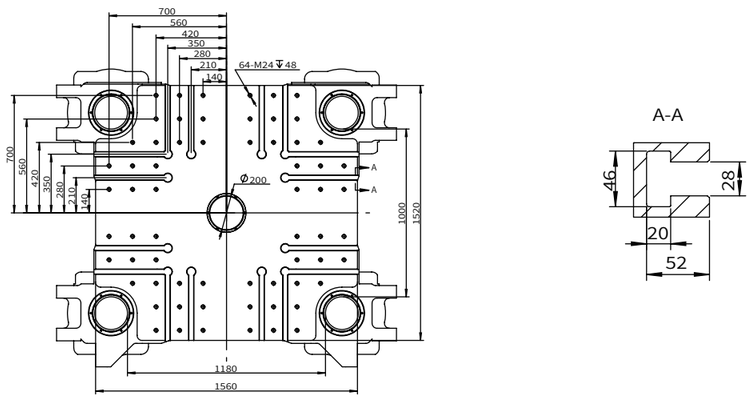
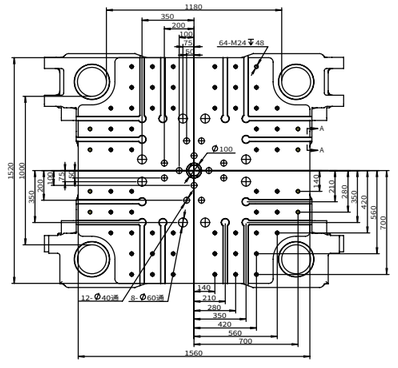
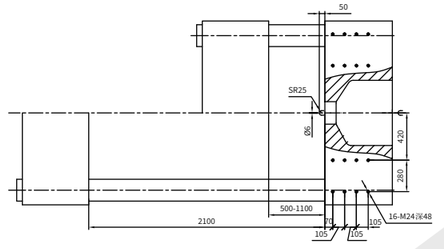
DP900 Fixed mold Platen



DP900 Moving mold Platen



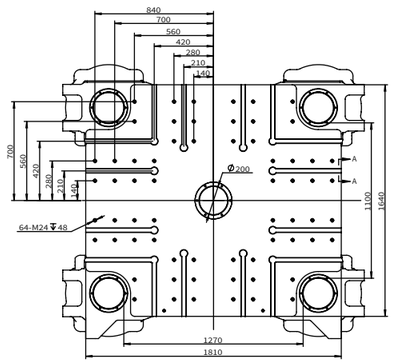
DP900 Mold Height Size Figure

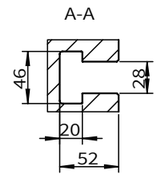


Specification And onfiguration

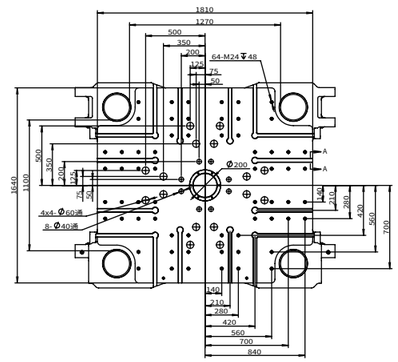
DP1100													
Clamping Unit		DP1100											
Clamping Force		11000											
Space Between Tie Bar(HXV)		1270X1100											
Max Mold Height		1250											
Min Mold Height		550											
Ejector Stroke		350											
Ejector force		230											
Max Distance Between platens(Daylight)		2550											
Max Toggle Stroke①		2000											
Max Mold Weight②		16											
Injection Unit		SP4700			SP6500			SP9700			SP12600		
Injection Unit		4781			6597			9717			12615		
Screw Diameter	mm	80	90	100	90	100	110	100	110	120	110	120	130
Screw L/D ratio	L/D	24.7	22.0	19.8	24.4	22.0	20.0	24.4	22.0	20.0	22.5	23.0	21.2
Shot Volume(Theoretical)	cm^3	2262	2863	3534	3181	3927	4752	4752	5750	6842	6272	7464	8760
Shot Weight(PS)	g	2081	2634	3252	2926	3613	4372	4372	5290	6295	5770	6867	8060
Injection Pressure	bar	2114	1670	1353	2074	1680	1388	2045	1690	1420	2011	1690	1440
Injection Speed	mm/s	105	105	105	110	110	110	106	106	106	90	90	90
Injection Rate	cm^3/s	528	668	825	700	864	1045	833	1007	1199	855	1018	1195
Screw Rotation Speed	r/min	165			135			125			115		
Plasticizing Capacity(PS)④	mm	82.0	113.6	140.3	92.9	114.8	155.0	106.3	143.5	207.3	132.1	190.7	220.4
Heating Zone	mm	7			7			7			7		
Nozzle Force	mm	129			129			166			166		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	75.4			92.7			119.4			166.6		
Heating Power	kW	48			54			83			104		
Machine Size⑤	m	9.4X3.2X2.8			9.6X3.2X2.8			9.8X3.2X2.8			10X3.2X2.9		
Machine Weight	ton	40			41			42			44		
Oil tank Capacity	L	980			1300			1700			2300		

DP1100 Fixed mold Platen

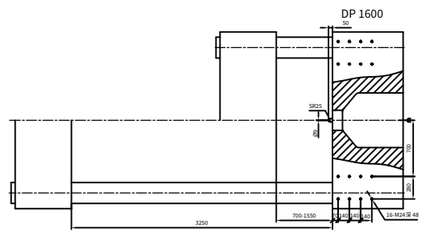




DP1100 Moving mold Platen



DP1100 Mold Height Size Figure



The machine size will be changed depending on the combination of clamping unit and injection unit. The above size is used as a parameter only!
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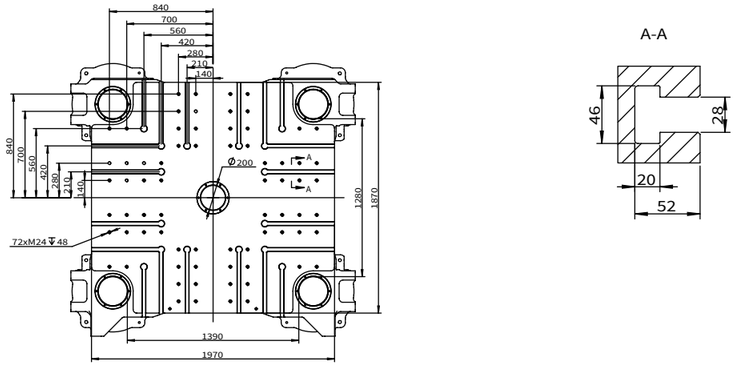
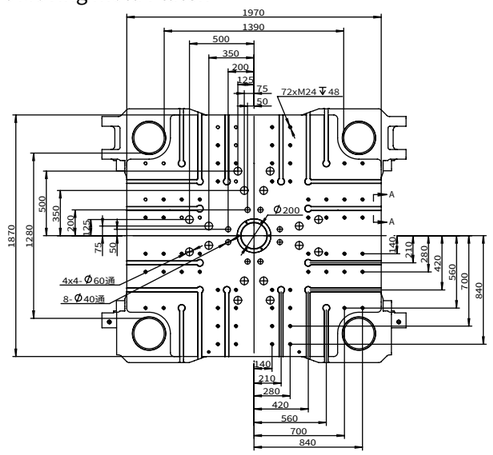
Specification And Configuration

DP1300													
Clamping Unit		DP1300											
Clamping Force		13000											
Space Between Tie Bar(HXV)		1390X1280											
Max Mold Height		1350											
Min Mold Height		600											
Ejector Stroke		350											
Ejector force		230											
Max Distance Between platens(Daylight)		2850											
Max Toggle Stroke①		2250											
Max Mold Weight②		23											
Injection Unit		**SP6500**			**SP9700**			**SP12600**			**SP19300**		
Injection Unit		6597			9717			12615			19321		
Screw Diameter	mm	90	100	110	100	110	120	110	120	130	130	140	150
Screw L/D ratio	L/D	24.4	22.0	20.0	24.4	22.0	20.0	22.5	23.0	21.2	24.7	23.0	21.4
Shot Volume(Theoretical)	cm^3	3181	3927	4752	4752	5750	6842	6272	7464	8760	10220	11853	13607
Shot Weight(PS)	g	2926	3613	4372	4372	5290	6295	5770	6867	8060	9403	10905	12518
Injection Pressure	bar	2074	1680	1388	2045	1690	1420	2011	1690	1440	1890	1630	1420
Injection Speed	mm/s	110	110	110	106	106	106	90	90	90	90	90	90
Injection Rate	cm^3/s	700	864	1045	833	1007	1199	855	1018	1195	1195	1385	1590
Screw Rotation Speed	r/min	135			125			115			101		
Plasticizing Capacity(PS)④	mm	92.9	114.8	155.0	106.3	143.5	207.3	132.1	190.7	220.4	193.6	231.5	309.4
Heating Zone	mm	7			7			7			7		
Nozzle Force	mm	129			166			166			166		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	92.7			119.4			166.6			183.9		
Heating Power	kW	54			83			104			116		
Machine Size⑤	m	11.8X3.4X3.2			11.8X3.1X3			13X3.4X3.2			14X3.4X3.3		
Machine Weight	ton	51			53			55			57		
Oil tank Capacity	L	1300			1700			2300			2500		

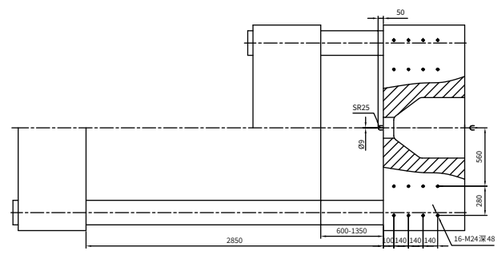
DP1300 Fixed mold Platen



DP1300 Moving mold Platen



DP1300 Mold Height Size Figure



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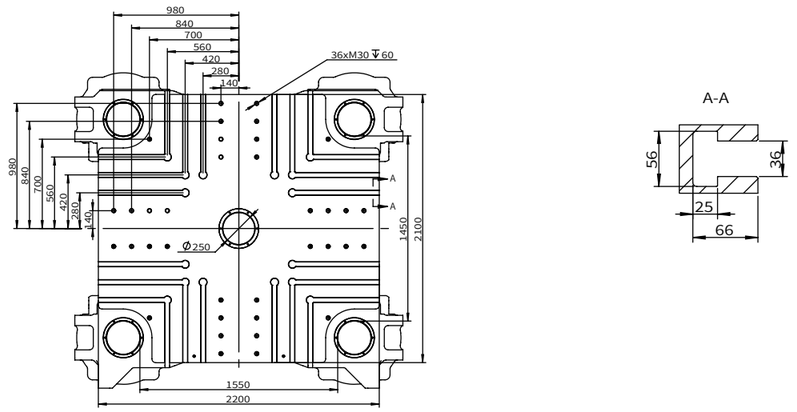
Specification And Configuration

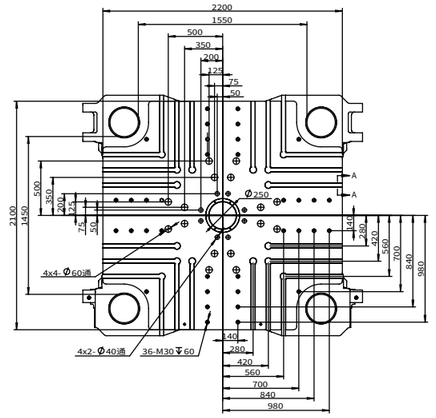
DP1600	
Clamping Unit	DP1600
Clamping Force	16000
Space Between Tie Bar(HXV)	1550X1450
Max Mold Height	1550
Min Mold Height	700
Ejector Stroke	400
Ejector force	330
Max Distance Between platens(Daylight)	3250
Max Toggle Stroke①	2550
Max Mold Weight②	33

Injection Unit		SP9700			SP12600			SP19300			SP26000		
Injection Unit		9717			12615			19321			26083		
Screw Diameter	mm	100	110	120	110	120	130	130	140	150	140	150	165
Screw L/D ratio	L/D	24.4	22.0	20.0	22.5	23.0	21.2	24.7	23.0	21.4	24.6	23.0	20.9
Shot Volume(Theoretical)	cm³	4752	5750	6842	6272	7464	8760	10220	11853	13607	13854	15904	19244
Shot Weight(PS)	g	4372	5290	6295	5770	6867	8060	9403	10905	12518	12746	14632	17705
Injection Pressure	bar	2045	1690	1420	2011	1690	1440	1890	1630	1420	1883	1640	1355
Injection Speed	mm/s	106	106	106	90	90	90	90	90	90	90	90	90
Injection Rate	cm³/s	833	1007	1199	855	1018	1195	1195	1385	1590	1385	1590	1924
Screw Rotation Speed	r/min	125			115			101			89		
Plasticizing Capacity(PS)④	mm	106.3	143.5	207.3	132.1	190.7	220.4	193.6	231.5	309.4	204.0	272.6	325.6
Heating Zone	mm	7			7			7			8		
Nozzle Force	mm	166			166			166			166		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	119.4			166.6			183.9			183.9		
Heating Power	kW	83			104			116			133		
Machine Size⑤	m	12.5X4X3.1			13X4X3.1			13.5X4X3.1			14X4X3.3		
Machine Weight	ton	71			73			75			77		
Oil tank Capacity	L	1700			2300			2500			2500		

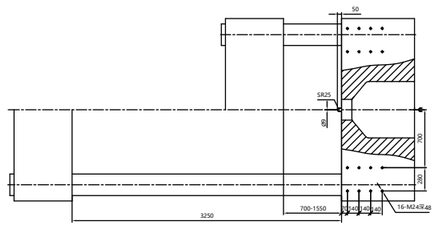
DP1600 Fixed mold Platen



DP1600 Moving mold Platen



DP1600 Mold Height Size Figure



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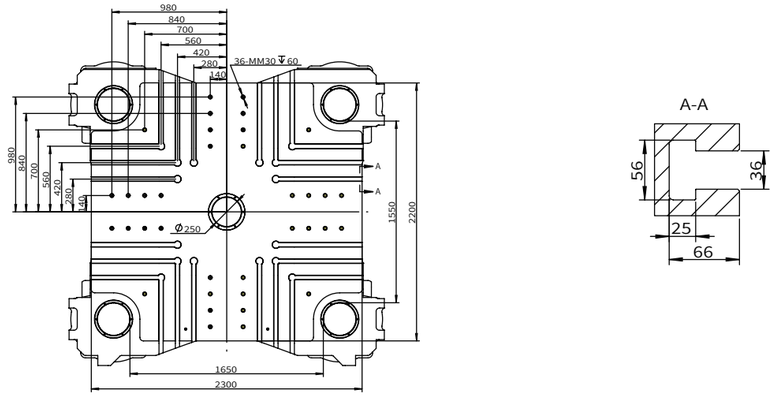
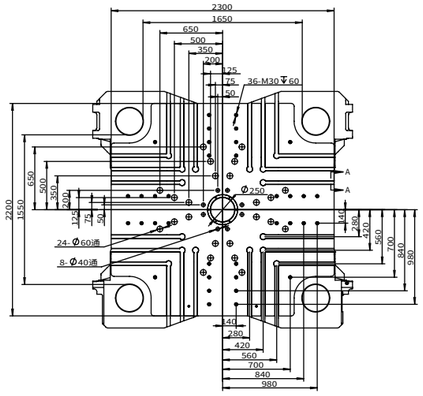
Specification And Configuration

DP1850													
Clamping Unit	DP1850												
Clamping Force	18500												
Space Between Tie Bar(HXV)	1650X1550												
Max Mold Height	1600												
Min Mold Height	750												
Ejector Stroke	450												
Ejector force	450												
Max Distance Between platens(Daylight)	3400												
Max Toggle Stroke①	2650												
Max Mold Weight②	40												
Injection Unit		SP12600			SP19300			SP26000			SP32800		
Injection Unit		12615			19321			26083			32811		
Screw Diameter	mm	110	120	130	130	140	150	140	150	165	150	165	180
Screw L/D ratio	L/D	22.5	23.0	21.2	24.7	23.0	21.4	24.6	23.0	20.9	25.3	23.0	21.1
Shot Volume(Theoretical)	cm³	6272	7464	8760	10220	11853	13607	13854	15904	19244	17495	21169	25192
Shot Weight(PS)	g	5770	6867	8060	9403	10905	12518	12746	14632	17705	16095	19475	23177
Injection Pressure	bar	2011	1690	1440	1890	1630	1420	1883	1640	1355	1876	1550	1302
Injection Speed	mm/s	90	90	90	90	90	90	90	90	90	87	87	87
Injection Rate	cm³/s	855	1018	1195	1195	1385	1590	1385	1590	1924	1537	1860	2214
Screw Rotation Speed	r/min	115			101			89			83		
Plasticizing Capacity(PS)④	mm	132.1	190.7	220.4	193.6	231.5	309.4	204.0	272.6	325.6	254.3	303.6	388.4
Heating Zone	mm	7			7			8			8		
Nozzle Force	mm	166			166			166			241		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	166.6			183.9			183.9			210.6		
Heating Power	kW	104			116			133			174		
Machine Size⑤	m	12.9X3.9X4.5			13.2X3.9X4.5			13.5X3.9X4.6			13.8X3.9X4.7		
Machine Weight	ton	85			87			89			91		
Oil tank Capacity	L	2300			2500			2500			3000		

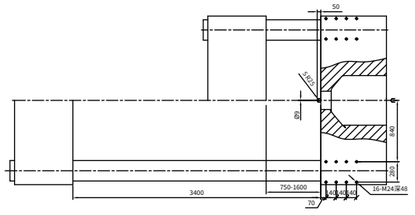
DP1850 Fixed mold Platen



DP1850 Moving mold Platen



DP1850 Mold Height Size Figure



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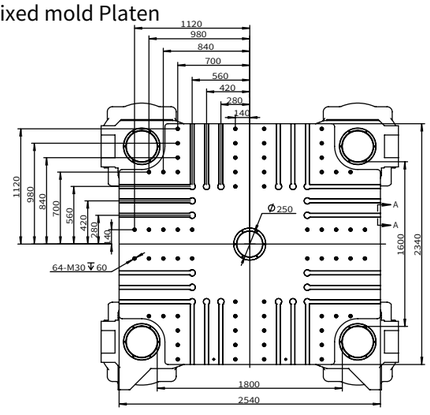
Specification And Configuration

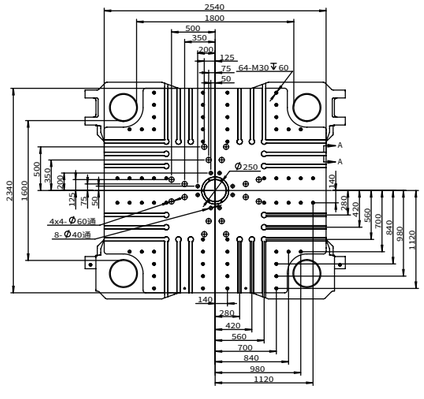
DP2100	
Clamping Unit	DP2100
Clamping Force	21000
Space Between Tie Bar(HXV)	1800X1600
Max Mold Height	1700
Min Mold Height	800
Ejector Stroke	450
Ejector force	450
Max Distance Between platens(Daylight)	3600
Max Toggle Stroke①	2800
Max Mold Weight②	50

Injection Unit		SP19300			SP26000			SP32800			SP40600		
Injection Unit		19321			26083			32811			40674		
Screw Diameter	mm	130	140	150	150	150	165	150	165	180	165	180	200
Screw L/D ratio	L/D	24.7	23.0	21.4	24.6	23.0	20.9	25.3	23.0	21.1	25.1	23.0	20.7
Shot Volume(Theoretical)	cm³	10220	11853	13607	13854	15904	19244	17495	21169	25192	23093	27483	33929
Shot Weight(PS)	g	9403	10905	12518	12746	14632	17705	16095	19475	23177	21246	25284	31215
Injection Pressure	bar	1890	1630	1420	1883	1640	1355	1876	1550	1302	1761	1480	1199
Injection Speed	mm/s	90	90	90	90	90	90	87	87	87	86	86	86
Injection Rate	cm³/s	1195	1385	1590	1385	1590	1924	1537	1860	2214	1839	2188	2702
Screw Rotation Speed	r/min	101			89			83			75		
Plasticizing Capacity(PS)④	mm	193.6	231.5	309.4	204.0	272.6	325.6	254.3	303.6	388.4	274.4	351.0	472.6
Heating Zone	mm	7			8			8			8		
Nozzle Force	mm	166			166			241			241		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	183.9			183.9			210.6			245		
Heating Power	kW	116			133			174			210		
Machine Size⑤	m	14.5X4.2X4.4			15.5X4.2X4.4			16.5X4.2X4.5			13.5X4.2X4.6		
Machine Weight	ton	97			99			101			103		
Oil tank Capacity	L	2500			2500			3000			3500		

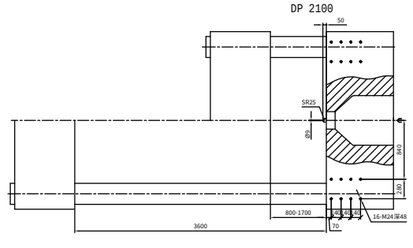
DP2100 Fixed mold Platen



DP2100 Moving mold Platen



DP2100 Mold Height Size Figure



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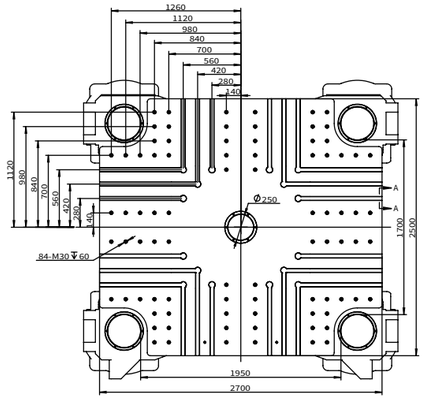
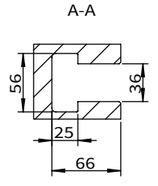
Specification And Configuration

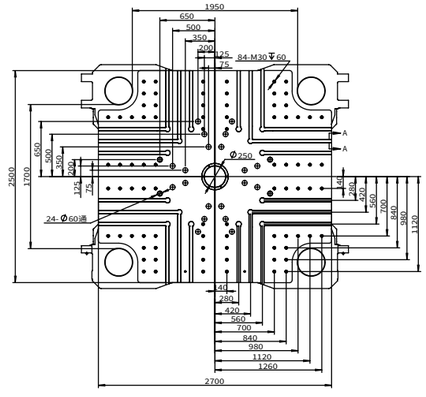
DP2400													
Clamping Unit		DP2400											
Clamping Force		24000											
Space Between Tie Bar(HXV)		1950X1700											
Max Mold Height		1800											
Min Mold Height		850											
Ejector Stroke		500											
Ejector force		450											
Max Distance Between platens(Daylight)		3800											
Max Toggle Stroke①		2950											
Max Mold Weight②		60											
Injection Unit		**SP26000**			**SP32800**			**SP40600**			**SP52700**		
Injection Unit		26083			32811			40674			52779		
Screw Diameter	mm	140	150	165	150	165	180	165	180	200	180	200	220
Screw L/D ratio	L/D	24.6	23.0	20.9	25.3	23.0	21.1	25.1	23.0	20.7	25.5	23.0	20.9
Shot Volume(Theoretical)	cm³	13854	15904	19244	17495	21169	25192	23093	27483	33929	30536	37699	45616
Shot Weight(PS)	g	12746	14632	17705	16095	19475	23177	21246	25284	31215	28093	34683	41967
Injection Pressure	bar	1883	1640	1355	1876	1550	1302	1761	1480	1199	1728	1400	1157
Injection Speed	mm/s	90	90	90	87	87	87	86	86	86	74	74	74
Injection Rate	cm³/s	1385	1590	1924	1537	1860	2214	1839	2188	2702	1883	2325	2813
Screw Rotation Speed	r/min	89			83			75			66		
Plasticizing Capacity(PS)④	mm	204.0	272.6	325.6	254.3	303.6	388.4	274.4	351.0	472.6	308.9	415.9	579..5
Heating Zone	mm	8			8			8			9		
Nozzle Force	mm	166			241			241			241		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	183.9			210.6			245			276.6		
Heating Power	kW	133			174			210			220		
Machine Size⑤	m	16X4.5X4.5			17X4.5X4.5			15.5X4.5X4.5			16.2X4.5X4.5		
Machine Weight	ton	123			125			127			129		
Oil tank Capacity	L	2500			3000			3500			4000		

DP2400 Fixed mold Platen

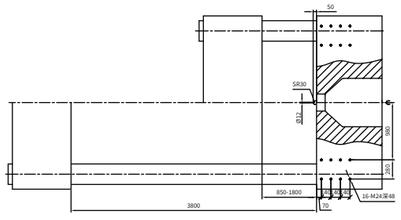




DP2400 Moving mold Platen



DP2400 Mold Height Size Figure



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Specification And Configuration

DP2800	
Clamping Unit	DP2800
Clamping Force	28000
Space Between Tie Bar(HXV)	2100X1800
Max Mold Height	2000
Min Mold Height	900
Ejector Stroke	500
Ejector force	450
Max Distance Between platens(Daylight)	4100
Max Toggle Stroke①	3200
Max Mold Weight②	70

Injection Unit		SP32800			SP40600			SP52700			SP72200		
Injection Unit		32811			40674			52779			72256		
Screw Diameter	mm	150	165	180	165	180	200	180	200	220	200	220	240
Screw L/D ratio	L/D	25.3	23.0	21.1	25.1	23.0	20.7	25.5	23.0	20.9	25.3	23.0	21.0
Shot Volume(Theoretical)	cm^3	17495	21169	25192	23093	27483	33929	30536	37699	45616	41469	50178	59715
Shot Weight(PS)	g	16095	19475	23177	21246	25284	31215	28093	34683	41967	38152	46163	54938
Injection Pressure	bar	1876	1550	1302	1761	1480	1199	1790	1450	1198	1730	1430	1202
Injection Speed	mm/s	87	87	87	86	86	86	74	74	74	61	61	61
Injection Rate	cm^3/s	1537	1860	2214	1839	2188	2702	1883	2325	2813	1916	2319	2760
Screw Rotation Speed	r/min	83			75			66			58		
Plasticizing Capacity(PS)④	mm	254.3	303.6	388.4	274.4	351.0	472.6	308.9	415.9	579.5	365.5	509.2	599.3
Heating Zone	mm	8			8			9			9		
Nozzle Force	mm	241			241			241			377		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	210.6			245			276.6			276.6		
Heating Power	kW	174			210			220			223		
Machine Size⑤	m	15X4.8X4.4			15.6X4.8X4.4			16.2X4.8X4.4			16.8X4.8X4.4		
Machine Weight	ton	144			146			148			150		
Oil tank Capacity	L	3000			3500			4000			4000		

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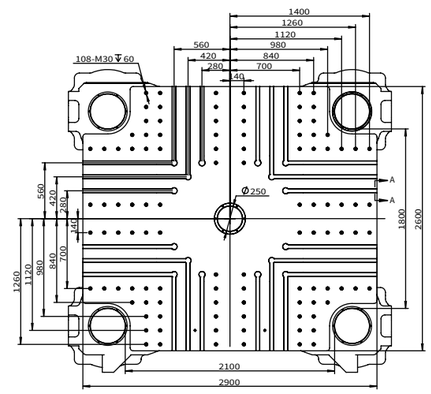
DP2800 Fixed mold Platen



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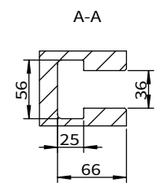
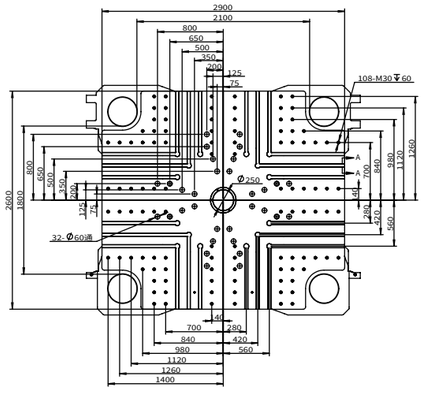
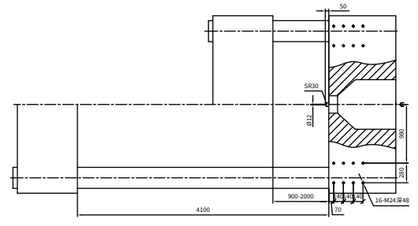


DP2800 Moving mold Platen



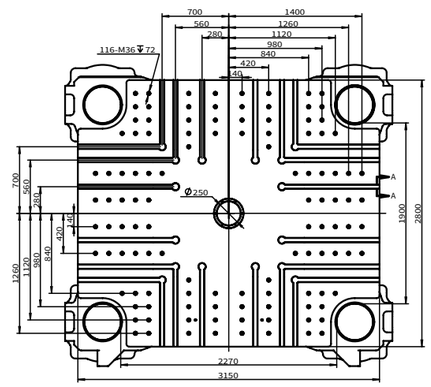
DP2800 Mold Height Size Figure

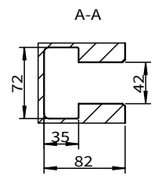


Specification And Configuration

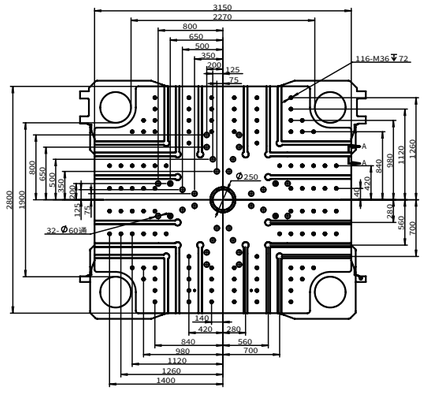
DP3300													
Clamping Unit		DP3300											
Clamping Force		33000											
Space Between Tie Bar(HXV)		2270X1900											
Max Mold Height		2000											
Min Mold Height		950											
Ejector Stroke		550											
Ejector force		580											
Max Distance Between platens(Daylight)		4300											
Max Toggle Stroke①		3350											
Max Mold Weight②		75											
Injection Unit		**SP40600**			**SP52700**			**SP72200**			**SP92500**		
Injection Unit		40674			52779			72256			92505		
Screw Diameter	mm	165	180	200	180	200	220	200	220	240	220	240	260
Screw L/D ratio	L/D	25.1	23.0	20.7	25.5	23.0	20.9	25.3	23.0	21.0	25.1	23.0	21.2
Shot Volume(Theoretical)	cm^3	23093	27483	33929	30536	37699	45616	41469	50178	59715	54739	65144	76454
Shot Weight(PS)	g	21246	25284	31215	28093	34683	41967	38152	46163	54938	50360	59933	70337
Injection Pressure	bar	1761	1480	1199	1790	1450	1198	1730	1430	1202	1690	1420	1210
Injection Speed	mm/s	86	86	86	74	74	74	61	61	61	50	50	50
Injection Rate	cm^3/s	1839	2188	2702	1883	2325	2813	1916	2319	2760	1901	2262	2655
Screw Rotation Speed	r/min	75			66			58			46		
Plasticizing Capacity(PS)④	mm	274.4	351.0	472.6	308.9	415.9	579.5	365.5	509.2	599.3	403.9	475.3	552.0
Heating Zone	mm	8			9			9			9		
Nozzle Force	mm	241			241			377			377		
Other													
Max System Pressure	bar	240			240			240			240		
Pump Power	kW	245			276.6			276.6			276.6		
Heating Power	kW	210			220			223			290		
Machine Size⑤	m	16X5.1X4.5			16.8X5.1X4.5			17.2X5.1X4.5			17.7X5.3X4.6		
Machine Weight	ton	178			180			183			185		
Oil tank Capacity	L	3500			4000			4000			4000		

DP3300 Fixed mold Platen

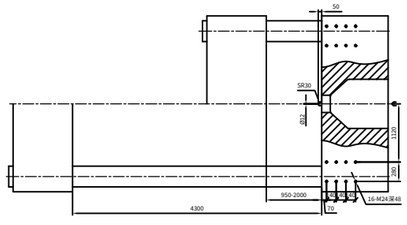




DP3300 Moving mold Platen



DP3300 Mold Height Size Figure



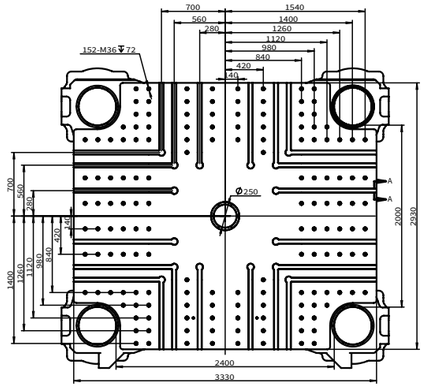
The machine size will be changed depending on the combination of clamping unit and injection unit. The above size is used as a parameter only!

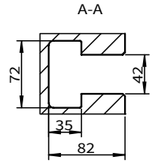
Sound Machinery reserves the right to make technical changes without prior notice!

Specification And Configuration

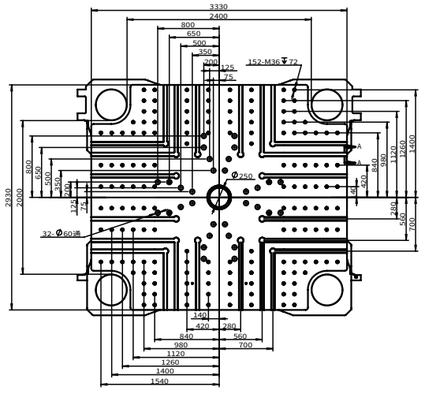
DP4000										
Clamping Unit		DP4000								
Clamping Force		40000								
Space Between Tie Bar(HXV)		2400X2000								
Max Mold Height		2200								
Min Mold Height		1000								
Ejector Stroke		550								
Ejector force		580								
Max Distance Between platens(Daylight)		4500								
Max Toggle Stroke①		3500								
Max Mold Weight②		85								
Injection Unit		**SP52700**			**SP72200**			**SP92500**		
Injection Unit		52779			72256			92505		
Screw Diameter	mm	180	200	220	200	220	240	220	240	260
Screw L/D ratio	L/D	25.5	23.0	20.9	25.3	23.0	21.0	25.1	23.0	21.2
Shot Volume(Theoretical)	cm^3	30536	37699	45616	41469	50178	59715	54739	65144	76454
Shot Weight(PS)	g	28093	34683	41967	38152	46163	54938	50360	59933	70337
Injection Pressure	bar	1790	1450	1198	1730	1430	1202	1690	1420	1210
Injection Speed	mm/s	74	74	74	61	61	61	50	50	50
Injection Rate	cm^3/s	1883	2325	2813	1916	2319	2760	1901	2262	2655
Screw Rotation Speed	r/min	66			58			46		
Plasticizing Capacity(PS)④	mm	308.9	415.9	579.5	365.5	509.2	599.3	403.9	475.3	552.0
Heating Zone	mm	9			9			9		
Nozzle Force	mm	241			377			377		
Other										
Max System Pressure	bar	240			240			240		
Pump Power	kW	276.6			276.6			276.6		
Heating Power	kW	220			223			290		
Machine Size⑤	m	18.8X5.4X4.6			19.3X5.4X4.6			20X5.4X4.6		
Machine Weight	ton	219			222			225		
Oil tank Capacity	L	4000			4000			4000		

DP4000 Fixed mold Platen

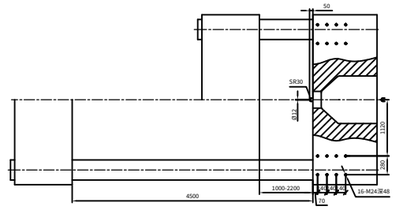




DP4000 Moving mold Platen



DP4000 Mold Height Size Figure



The machine size will be changed depending on the combination of clamping unit and injection unit. The above size is used as a parameter only!

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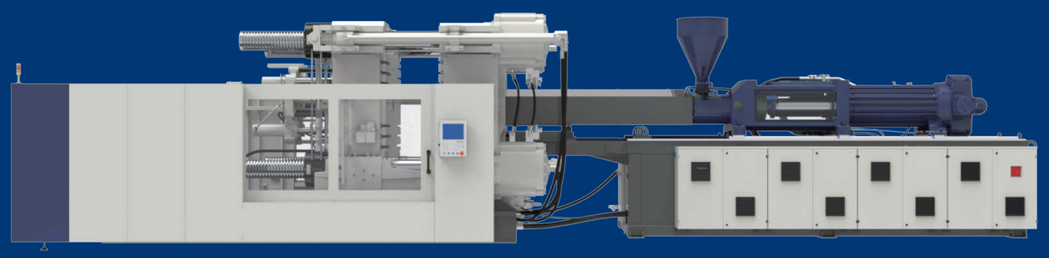
Machine Features



Standard Features

	Injection parts		Clamping parts		Control parts
1	Prevents Screw start while cold	1	5 stage speed/pressure control of Mold open	1	KEBA2000 Professional Control system From Europe
2	Insulated cotton on barrel	2	Mold Protect Control	2	12' display monitor
3	support under barrel	3	Auto Mold Height Adjustment	3	3 color alarm light
4	10 stage speed/pressure control of injection	4	Differential Open mold	4	Mold data saving in RAM/USB
5	10 stage speed/pressure control of pressure holding	5	Mold close security interlocking(Electric/Hydraulic)	5	One Phase 10A plug/ Three phase 16A/32A plug
6	Prevents Screw reversal	6	Rear safety door Mechanical self-Locking	6	Electric leakage protection device of Socket
7	5 stage Back pressure control of Charging	7	Front Electric door with crashworthy Switch (up from DP1000)	7	Printing interface
8	3 stage forward speed/pressure control of injection station	8	Standard T-slot mold platen with Thread Holes	8	Servo Motor Driver
9	3 stage back speed/pressure control of injection station	9	Safety Foot plate in Mold zone and rear door	9	Accord with GB machine safety standard
10	Position/Time Control of Pressure holding	10	Euromap2 Mold Fixed Ring (Moving and Fixed mold platen)	10	SSR Control heating
11	Position/Time Control of Injection	11	3 stage speed/pressure control of eject pin		
12	Injection Position Transducer	12	Speed/pressure/position control of eject pin		**Hydraulic Parts**
13	Injection Station Position Transducer	13	Eject pin back Confirmed	1	Low oil level alarm
14	Injection Linear Guide	14	Moving platen position transducer	2	Oil Temperature Alarm
15	Injection Station Linear Guide	15	Ejector position transducer	3	Mold cooling water
16	Proportional Back pressure control	16	Euromap 18 robot installing interface size	4	Hydraulic core pulling device
17	Injection Station time/position control	17	Proportion valve control of Mold open and close	5	Independent hydraulic cooling filtration system
18	Feeding Plate (Up from DP2100)	18	Pull-back center eject pin	6	Solenoid valve LED light (Proportion valve haven't.)
19	Injection Protect Device			7	Mold open and eject or core pulling synchronization
20	Auto Purge Function			8	Hydraulic core pull (As Machine Model)
21	Feeding Mouth Temperature Control				
22	Ceramic Heater				
23	HPS High efficiency screw				

Machine Features

Option

	Injection parts		Clamping parts		Control parts
1	Bi-Metal Screw	1	High pressure mold clamping parallel system	1	KEBA 5000 controller
2	Bi-Metal Barrel	2	8-24 channel Hot runner control (Max. 2KW	2	KEBA 8000 controller
3	Full hard screw	3	Core pulling Overlay Check valve	3	15' display monitor
4	Full hard barrel	4	Core pulling quick joint	4	21' display monitor
5	Chrome screw	5	Core pull pressure holding (Independent pump unit)	5	Electrical interface of Euromap 12 robot
6	Transparent special screw	6	Core pulling Option	6	Electrical interface of Euromap 13 core pulling
7	High color Mixing screw	7	Air blast with Accumulator	7	Electrical interface of Euromap 14 hut runner thermocouple
8	Self-locked nozzle (hydraulic/ pneumatic)	8	Air blast/Air valve	8	Electrical interface of Euromap 62 Fluid eject pin system
9	Injection proportion control	9	Ejector check valve	9	Electrical interface of Euromap 67 robot
10	Hydraulic/electric charging and mold open synchronization	10	Quick Remove the center ejector rod (Hydraulic/ pneumatic)	10	Electrical interface of Euromap 70 magnetic clamping
11	6/8/10/12/16/18/24 channel sequential injection (Hydraulic/ pneumatic)	11	Magnetic Mold platen	11	Electrical interface of Euromap 71 changing mold device
12	pneumatic sequential injection with accumulator	12	Hydraulic clamping board (With control system)	12	Energy consumption meter
13	Mold Cavity pressure holding change(Without sensor)	13	Front Electric door + Crashworthy switch (DP450-DP900	13	Barrel Heating short circuit detection device
14	Injection station security pressure control	14	Oil/water Mold temperature controller	14	Hot runner short circuit detection device
15	Stainless Steel hopper	15	Air/water Chiller	15	Air conditioner for Electric box
16	Hopper dryer	16	Robot	16	LED light for Electric box
17	Autoloader	17	Other accessories	17	UPS for controller (1KVA)
18	Feeding plate			18	One phase 10A plug (Position/Quantity Option)
				12	Three phase 16A plug (Position/Quantity Option)
	Hydraulic Parts			20	Three phase 32A plug (Position/Quantity Option)
1	Mold colding water quick joint			21	Three phase 63A plug (Position/Quantity Option)
2	Filter clogging alarm			22	Accord with CE machine security standard
3	Oil Pre-heating Circuit			23	Accord with SPI machine security standard
4	Valve oil drip plate			24	Mold protection image function

Partner

Meet the sun, moon and stars on the top of the mountain, create an infinite future together!