

*EXCELLENT PLASTIC INJECTION MACHINE
AND JBOSS OF THE WORLD*

*PLASTİK ENJEKSİYONDA LİDER
DÜNYANIN JBOSS'U..*

VALANS®
PLASTİK ENJEKSİYONDA TEK ADRES

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DM Series

PRECISION INJECTION
MOLDING MACHINE



JBOSS



JBOSS Hakkında

JBoss Machine (Ningbo) Co., Ltd plastik enjeksiyon makineleri üreten bir yüksek teknoloji şirkettir. Dünyanın en iyi mühendisleri ile, Ar-Ge, üretim ve satış personelinin tamamı 20 yılı aşkın deneyime sahip sektör uzmanlarıdır. Kullanıcıların ihtiyaçlarını karşılayan yüksek verimli enjeksiyon makinesi JBOSS'un tasarım ekibi, üretkenliği artırmaya, ürün kalitesini iyileştirmeye, enerji tüketimini azaltmaya ve üretim maliyetlerini düşürmeye kendini adanmıştır.

Makinenin en büyük özelliği yüksek stabilite, dayanıklılık, güvenilirlik ve kolay bakımdır. Otomatik üretim gereksinimlerine daha uygun ve daha uyarlanabilir; hidrolik, elektrikli cihazlar ve kontrol sistemleri dünyaca ünlü markalardır ve makine yapısı kullanıcıların özel uygulamalarına daha esnek bir şekilde yanıt verebilen modüler bir konseptle tasarlanmıştır.

JBOSS Plastik Enjeksiyon Makineleri tüm dünyaya ihraç edilmektedir. JBoss makineleri elektronik, tıbbi bakım, paketlenme, otomotiv, ev aletleri, lojistik, yapı malzemeleri ve diğer birçok endüstride yaygın olarak kullanılmaktadır. Müşterilerden büyük övgü almıştır ve yıllar boyunca satın alımlarını tekrarlayan çok sayıda sadık müşteriye sahiptir. JBOSS, güvenilir makinelerin yanı sıra, yedek parça üretimi ve kullanıcılara mükemmel satış sonrası hizmet ile de takdir toplamaktadır.

About JBOSS

JBoss Machine (Ningbo) Co., Ltd is a high-tech company of injection molding machines. It brings together top engineers from China and Europe. All of the staffs of R&D, manufacturing and sales are industry experts with more than 20 years of experience. The design is directly synchronized and benchmarked with famous European factories. High-level high-efficiency injection molding machines meeting user's needs.

The injection molding machine produced by Jboss is committed to increasing productivity, improving product quality, reducing energy consumption, and reducing production costs. The biggest feature of the machine is high stability, high durability, simple structure, reliability, and easy maintenance. Convenient and more adaptable to the requirements of automated production; hydraulics, electrical appliances and control systems are all world-famous brands, and the machine structure is designed with a modular concept, which can more flexibly respond to users' special applications.

JBoss has a professional product application team, which can supply the best molding solution for users' products and create greater value for users.

JBoss has set up offices in various provinces and cities, and the injection molding machines are exported to Europe, America, the Middle East, Southeast Asia and other countries. The JBoss machines are widely used in 3C electronics, medical care, packaging, automobiles, home appliances, logistics, building materials and other industries. It has won high praise from customers, and has a large number of loyal customers who repeat purchases for a long time. While providing reliable machines, the company is preparing enough spare parts, and providing users with perfect after-sales service.



Kurumsal Misyon

**Makinelerimizle
müşterilerimiz için daha
büyük değerler yaratıyoruz**



Kurumsal Vizyon

**Seçkin bir makine firması
olmak**



Kurumsal Hedef

Müşteri odaklı ve çalışkanlık



Kurumsal Değerler

**Dürüstlük, titizlik,
sorumluluk ve öz
değerlendirme**



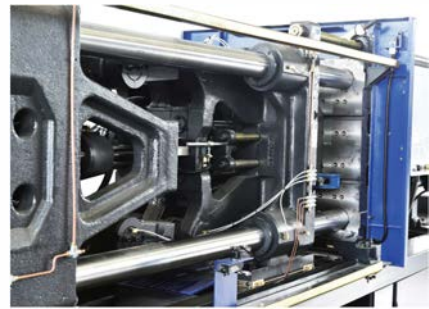


DM 系列精密伺服注塑机

机博士推出的 DM 系列精密注塑机，锁模和注射机构刚性加强，标配新一代高速电脑，结合全数字总线通讯技术，国际规格通讯接口，国际一线品牌元器件，可实现更精细的工艺管控、注射过程的全闭环精密控制、周边设备的互联互通，致力于为用户提供高性价比、高耐用性、智能化、数字化的精密注塑机，定位生产高品质塑料制品。

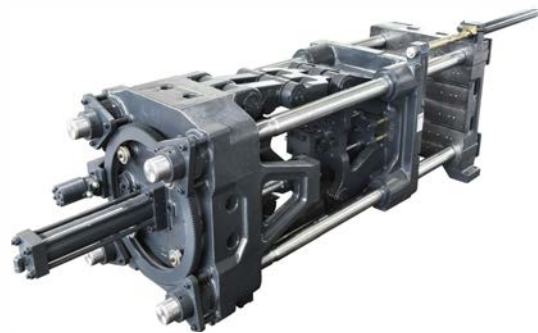
DM series precision injection molding machine

JBOSS launched DM series precision injection molding machine, The rigidity of the locking and injection mechanism is strengthened, With a new generation of high-speed computers, Combined with full digital bus communication technology, international specifications communication interface, international first-line brand components, can achieve more fine process control, full closed-loop precision control of injection process, the interconnection of peripheral equipment, is committed to providing users with cost-effective, high durability, intelligent, digital precision injection molding machine, Positioning production of high quality plastic products.



1 高刚性锁模机构 High rigidity clamping mechanism

- 采用压中心锁模结构设计，模板中心加厚，锁模力直接作用于模具上，提高制品成型精度，减少产品合模线。
- It uses the center press clamping design, the center of the platen is thickened, which improves the molding accuracy of the product and reduces the product clamping line.



2 叉式锁模连杆 Fork type Toggle

- 强壮的叉式锁模连杆，有效减少锁模机构零件磨损，减少应力变形，使锁模主关件寿命更长。
- The strong fork type toggle reduces the wear of the clamping mechanism parts, reduces the stress and deformation, and makes the main parts of the mold clamping have a longer life.



3 智能高效耐用 Intelligent Energy Durable

- ①应用了智能化运动控制软硬件，低压模具保护，一键傻瓜式开合模设置，工艺设置更简单，锁模机构开合模动作快速平稳，降低机械损耗。
- ②全数字总线控制系统，易用，扩展性强，支持扩展主机与周边设备互联互通。
- ③国际标准的通讯接口，更容易实现自动化，提高人均产能。Linux 操作系统，兼容性更好，可实现更多第三方软件集成。
- ① Intelligent motion control software and hardware, low-pressure mold protection, one-key fool-style mold opening and closing settings, process settings are simpler, the mold clamping mechanism opens and closes the mold quickly and smoothly, reducing mechanical loss.
- ② Full digital bus control system, easy to use, extensible, and supports the interconnection of the extended equipment and other devices.
- ③ International standard communication interface, easier to achieve automation, increase per capita productivity. The Linux system has better compatibility and can achieve more third-party software integration.



4 精密稳定 Precision And Stability

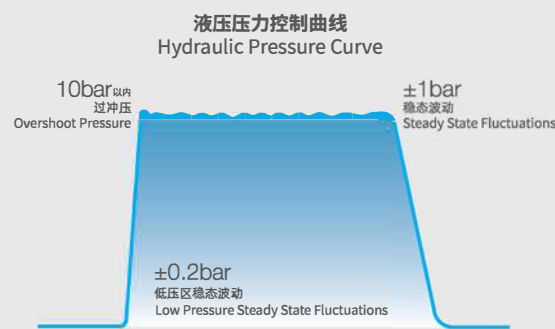
- 注射压力大，最高可设置 175，DM500 以下机型 A 螺杆射胶压力普遍 >2200bar。最新全数字化总线通讯技术，更小干扰，更精细的工艺管控，提高产品合格率；增加独立温控模块，料筒温控精准，全面优化的注射机构，确保耐用性和稳定性。
- The injection pressure is higher, the maximum injection pressure setting is 175, For models below DM500, A screw injection pressure is generally greater than 2200bar. High injection pressure, The Ethercat communication technology, smaller interference, more refined process control, better product qualification rate; Independent temperature control module, accurate barrel temperature control, strong injection mechanism to ensure stability.



液压系统 Hydraulic System

采用高响应伺服系统，动力强劲，反应灵敏，控制精确，配合数字化智能算法控制软件，实现智能精密控制。机器高速运行震动小，机械损耗小，保护模具，机器寿命长。

High-response servo system is used, with strong hydraulic power, sensitive response, precise control, and Ai algorithm to realize intelligent precision control. low vibration when the machine runs at high speed, to reach the demand of low mechanical loss, protection of molds, and long machine life.



1 注射压力大

High Injection Pressure

- 系统压力为 17.5Mpa, DM500 以下机型 A 螺杆射胶压力普遍 >2200bar。
- The system pressure is 17.5Mpa, For models below DM500, A screw injection pressure is generally greater than 2200bar.

2 人性化

Humanize

- 简洁可靠的液压管路设计，同时提升了操作和维护的便利性。
- Reliable hydraulic system improves the convenience of operation and maintenance.

3 完美压力控制

Perfect Pressure Control

- 结合生物种群进化思想，实现压力控制自整定，压力过冲 10bar 以内，稳态波动 ±1bar 以内，低压区稳态波动 ±0.2bar。
- Pressure control self-tuning, pressure overshoot within 10bar, steady-state fluctuation within ±1bar, and low-pressure zone steady-state fluctuation within ±0.2bar.

4 非焊接工艺

Non-Welding Process

- 油管接口非焊接工艺，耐压高，可多次拆装，可靠不漏油，提高管路清洁度，提高液压元件使用寿命。
- The oil pipe interface is non-welded, with high pressure resistance, can be disassembled and assembled many times, does not leak oil, improves the cleanliness of the pipeline, and increases the service life of the hydraulic components.

5 高速稳定开合模

High-Speed And Stable Mold Opening And Closing

- 开合模动作快速平稳无冲击，有效保护模具，延长机器寿命。应用了智能化运动控制软硬件，低压模具保护，一键傻瓜式开合模设置，工艺设置更简单，锁模机构开合模动作快速平稳，降低机械损耗。开模位置定位精准，DM260 以下机型重复偏差 ±0.5mm，便于高效自动化生产。
- The opening and closing action is fast and smooth without impact, keeping smooth and without impact, which protects the mold and prolongs the life of the machine. Intelligent motion control software and hardware, low-pressure mold protection, one-key fool-style mold opening and closing settings, process settings are simpler, and mechanical loss is reduced. The mold opening position is accurate, and the repeat deviation of models below EA260 is ±0.5mm, which is convenient for robot and automated production.

6 响应快

Fast Response

- 采用汇川最新伺服系统，最小弯道、最近距离的优化液压设计，超快速响应，28ms 可达到最高压力。
- Using Inovance's new servo system, better hydraulic design with minimum curve and shortest distance, Ultra fast response, 28ms to reach the maximum pressure.

电控系统 Electric System

采用新一代数字化总线控制系统，功能强大，国际标准的通讯接口，抗干扰性更强，反应快，智能化，更稳定，可扩展性强。

It used EtherCat controller with powerful functions and international standard communication interface, fast response, intelligence, which is more stable and has strong expandability.



1 新一代控制系统 New Generation Controller

- 标配高速控制电脑，结合全数字式 EtherCat 总线控制系统，实现高动态、高响应能力，抗干扰性强，制品更稳定，效率更高，能耗更低。
- 新型 EtherCat 通信接口是原先 Can 总线交互时间的 1/6，控制响应更及时。
- Linux 操作系统，兼容性更好，可实现更多的第三方软件集成。
- 主机驱动器交互周期 0.5ms，控制更精准。
- 500 项参数修改记录功能。
- 9-12 组温度控制，增加独立温控模块及新型动态温度自学习控制算法，温度控制更精准，维护更方便。
- 新一代智能开合模算法，注射算法，确保生产高稳定性。
- 该电脑为全电动注塑机、液压标准注塑机、液压高速注塑机标准通用平台，通用性更强，更精准。
- U 盘在线更新程序，模具资料 U 盘读写。
- 标配 11 种语言：中文，英语，波斯语，俄语，西班牙语，土耳其语，法语，韩语，阿拉伯语，葡萄牙语，越南语。
- 标配常用通讯接口：标准 RS232、专用 CAN、100M 以太网 RJ45、USB Host 2.0，有助于实现工业 4.0。
- 标配 I/O 输入输出通道：32 点输出、32 点输入；可选配 48 点输入、64 点输出，满足多组中子、吹气，顺序阀模具等特殊应用。
- 支持专用扩展板 (I/O、机械手、温度、模温、DA)。

- Standard high-speed controller, EtherCat control system, high dynamics, high responsiveness, strong anti-interference, more stable products, higher efficiency, and lower energy consumption.
- The EtherCat communication interface is 1/6 of the original Can bus interaction time, and the control response is faster.
- The Linux system has better compatibility and can achieve more third-party software integration.
- The interaction cycle between the controller and the driver is 0.5ms, and the control is more precise.
- 500 sets parameter recording functions.
- 9-12 groups of temperature control, independent temperature control module and new dynamic temperature self-learning control algorithm are added, temperature control is more accurate and maintenance is more easy.
- The new generation Ai opening and closing algorithm and injection algorithm ensure high production stability.
- The controller is a universal platform for all-electric injection molding machines, hydraulic injection molding machines, and hydraulic high-speed injection molding machines, with stronger versatility and more precision.
- U disk online update program, mold data U disk read and write.
- Standard 11 languages: Chinese, English, Persian, Russian, Spanish, Turkish, French, Korean, Arabic, Portuguese, Vietnamese.
- Standard common communication interfaces: RS232, CAN, 100M Ethercat, RJ45, USB Host 2.0, help to realize Industry 4.0.
- Standard I/O input and output channels: 32-point output, 32-point input; 48-point input and 64-point output are option to meet special applications such as multiple groups of core pulling, air blowing, and sequence valve molds.
- Support expansion board (I/O, robot, temperature, mold temperature, DA).

2 汇川伺服驱动器 Inovance Servo Drive

- 系统稳定，可靠耐用，响应快。
- The driver is stable, reliable and durable, and responds quickly.

3 标配数控背压 Standard Digital Back Pressure

- 数控背压调整方式，更方便管控生产工艺。
- Digital back pressure makes it easier to control the production process.



机械尺寸, 机械重量均为估算值。本公司保留修改技术参数的权力, 恕不另行通知。
Machine dimensions, and machine weights are approximate values.
The company reserves the right to modify the technical parameters without prior notice.

规格参数 Specification

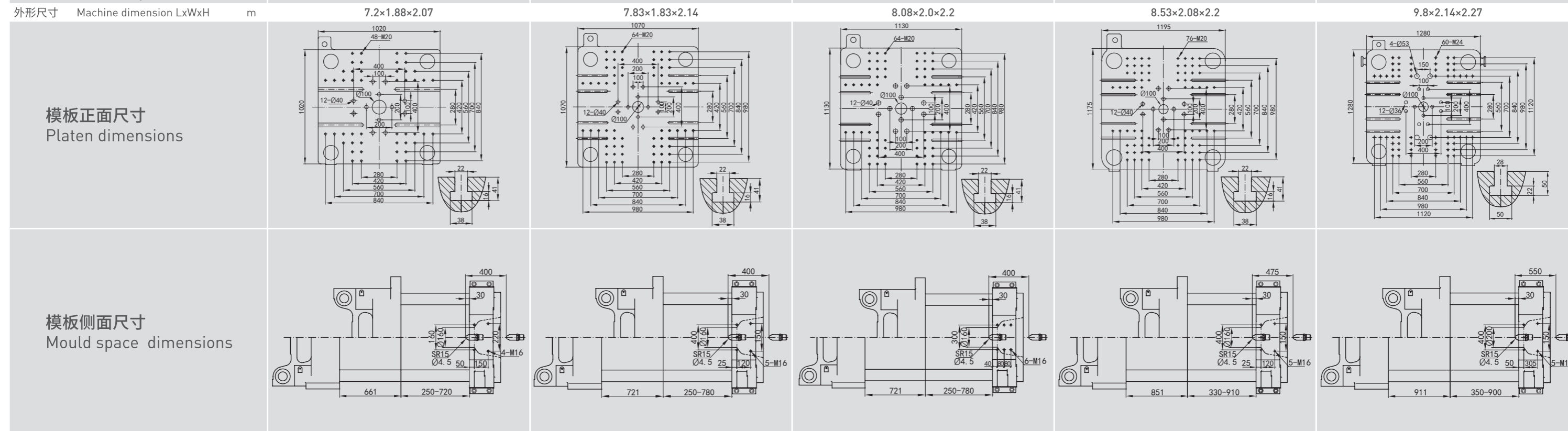
型号	Machine Model	单位	DM100/i380pro			DM130/i430pro			DM160/i620pro			DM200/i950pro			DM260/i1200pro			DM300/i1600pro		
锁模单元	Clamping unit																			
合模力	Clamping force	KN	1000			1300			1600			2000			2600			3000		
移模行程	Opening stroke	mm	351			381			436			501			541			591		
拉杆内距	Distance between tie bars(W×H)	mm	360×360			410×410			470×470			525×525			580×580			610×610		
模具厚度	Mold installation height	mm	150-380			160-450			180-520			200-530			200-580			200-630		
顶出行程	Eject stroke	mm	100			120			135			150			150			150		
顶出力	Force	KN	43			60			60			80			80			80		
注射单元	Injection unit																			
螺杆代号	Screw type		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
螺杆直径	Screw diameter	mm	32	35	38	38	42	45	42	45	50	45	50	55	50	55	60	55	60	65
螺杆长径比	Effective Screw length	L/D	24.1	22.0	20.3	23.7	21.4	20.0	23.6	22.0	19.8	23.3	21.0	19.1	23.1	21.0	19.3	22.9	21.0	19.4
理论容量	Injection volume	cm ³	138	165	194	195	238	274	306	351	434	399	493	596	512	620	738	679	809	949
注射重量	Injection weight(PS)	g	125	150	176	178	217	249	279	320	395	363	448	543	466	564	672	618	736	864
注射压力	Injection pressure	MPa	274	229	194	221	181	158	215	187	153	241	195	161	225	186	156	241	202	172
注射速率	Injection capacity	cm ³ /s	89	107	126	111	135	156	151	173	214	160	198	239	218	264	314	204	242	285
螺杆转速	Screw speed	rpm	221			200			189			173			189			231		
其它	Others																			
油泵压力	Max. pump pressure	MPa	17.5			17.5			17.5			17.5			17.5			17.5		
电机功率	Pump motor power	KW	18.7			18.7			23.0			27.8			31.3			31.3		
电热功率	Heater power	KW	9.8			10.2			12.8			15.2			18.9			23.7		
油箱容积	Oil tank capacity	L	155			155			200			200			275			300		
机器重量	Machine weight	Ton	3.0			3.8			5.0			6.9			7.8			8.4		
外形尺寸	Machine dimension LxWxH	m	4.32×1.1×1.71			4.7×1.19×1.79			5.28×1.34×1.85			5.73×1.44×1.94			6.0×1.54×2.05			6.16×1.62×2.07		
模板正面尺寸 Platen dimensions																				



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型号	Machine Model	单位	DM350/i2400pro			DM400/i3100pro			DM450/i3120pro			DM500/i4400pro				DM600/i4800pro			
锁模单元 Clamping unit																			
合模力	Clamping force	KN	3500			4000			4500			5000				6000			
移模行程	Opening stroke	mm	661			721			771			851				911			
拉杆内距	Distance between tie bars(W×H)	mm	660×660			720×720			770×770			820×820				870×870			
模具厚度	Mold installation height	mm	250-720			250-780			250-780			330-910				350-900			
顶出行程	Eject stroke	mm	180			180			200			240				250			
顶出力	Force	KN	80			120			120			160				160			
注射单元 Injection unit																			
螺杆代号	Screw type		A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C	D
螺杆直径	Screw diameter	mm	65	70	75	70	75	80	70	75	80	75	80	85	90	90	95	100	105
螺杆长径比	Effective Screw length	L/D	23.2	21.5	20.1	23.6	22.0	20.6	23.6	22.0	20.6	22.4	21.0	19.8	18.7	23.1	21.9	20.8	19.8
理论容量	Injection volume	cm ³	1115	1293	1484	1505	1727	1965	1505	1727	1965	1953	2222	2508	2812	2551	2842	3149	3472
注射重量	Injection weight(PS)	g	1015	1177	1351	1369	1572	1788	1369	1572	1788	1777	2022	2282	2559	2321	2587	2866	3160
注射压力	Injection pressure	MPa	217	187	163	207	181	159	207	181	159	225	198	175	156	186	167	151	137
注射速率	Injection capacity	cm ³ /s	289	334	385	370	424	483	370	424	483	436	496	560	627	684	762	845	931
螺杆转速	Screw speed	rpm	200			158			158			137				158			
其它 Others																			
油泵压力	Max. pump pressure	MPa	17.5			17.5			17.5			17.5				17.5			
电机功率	Pump motor power	KW	45.0			45.0			45.0			60.5				60.5+20.5			
电热功率	Heater power	KW	31.2			34.9			34.9			40.6				55.6			
油箱容积	Oil tank capacity	L	600			745			810			890				990			
机器重量	Machine weight	Ton	12.5			14.0			16.3			20.0				26.3			





规格参数 Specification

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型号	Machine Model	单位	DM730/i6100pro				DM900/i8400pro				DM1000/i10000pro				DM1300/i13400pro				DM1500/i15000pro			
锁模单元 Clamping unit																						
合模力	Clamping force	KN	7300				9000				10000				13000				15000			
移模行程	Opening stroke	mm	971				1101				1211				1420				1500			
拉杆间距	Distance between tie bars(W×H)	mm	970×970				1080×1030				1160×1160				1280×1280				1480×1360			
模具厚度	Mold installation height	mm	400-960				450-1100				500-1160				600-1350				700-1500			
顶出行程	Eject stroke	mm	280				300				325				325				350			
顶出力	Force	KN	220				220				255				255				280			
注射单元 Injection unit																						
螺杆代号	Screw type		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
螺杆直径	Screw diameter	mm	90	95	100	105	90	100	110	120	100	110	120	130	110	120	130	140	120	130	140	150
螺杆长径比	Effective Screw length	L/D	23.2	22.0	20.9	19.9	24.4	22.0	20.0	18.3	24.2	22.0	20.2	18.6	26.2	24.0	22.2	20.6	23.8	22.0	20.4	19.0
理论容量	Injection volume	cm ³	2933	3268	3621	3992	3505	4328	5236	6232	4328	5236	6232	7314	5707	6910	8355	9243	7125	8261	9697	11133
注射重量	Injection weight(PS)	g	2669	2974	3295	3633	3190	3938	4765	5671	3938	4765	5671	6655	5193	6288	7603	8411	6484	7518	8824	10131
注射压力	Injection pressure	MPa	207	186	168	152	239	194	160	135	232	192	161	137	224	188	160	138	212	180	156	136
注射速率	Injection capacity	cm ³ /s	617	687	761	839	641	791	957	1139	767	928	1105	1297	897	1093	1268	1470	856	1070	1241	1425
螺杆转速	Screw speed	rpm	121				105				105				95				99			
其它 Others																						
油泵压力	Max. pump pressure	MPa	17.5				17.5				17.5				17.5				17.5			
电机功率	Pump motor power	KW	60.5+20.5				50.7×2				60.5×2				130.0				168.0			
电热功率	Heater power	KW	62.9				66.9				81.9				81.9				86.0			
油箱容积	Oil tank capacity	L	1180				1550				1600				1600				1800			
机器重量	Machine weight	Ton	32.6				47.3				50.0				60.0				80.0			
外形尺寸	Machine dimension LxWxH	m	11.2×2.35×2.4				12.0×2.62×2.6				12.54×2.69×2.75				13.1×2.8×3.3				14.1×3.1×3.5			
模板正面尺寸 Platen dimensions																						
模板侧面尺寸 Mould space dimensions																						

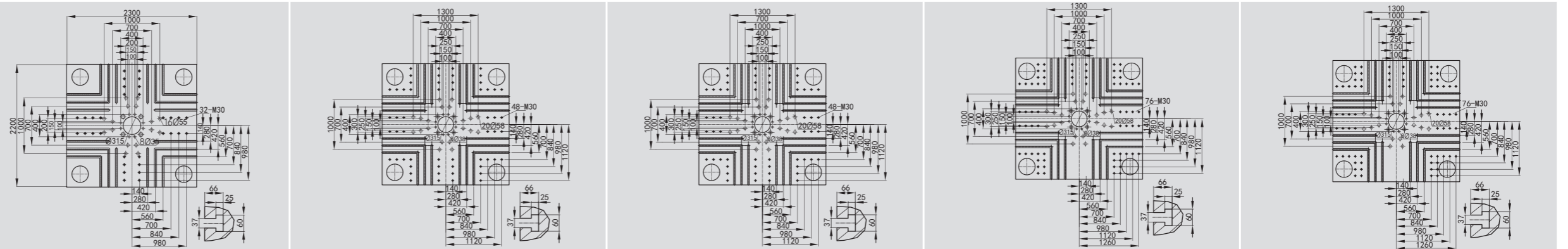


规格参数 Specification

机械尺寸, 机械重量均为估算值。本公司保留修改技术参数的权力, 恕不另行通知。
Machine dimensions, and machine weights are approximate values.
The company reserves the right to modify the technical parameters without prior notice.

型号	Machine Model	单位	DM1800/i17800pro				DM2200/i24000pro				DM2200/i35300pro				DM2500/i35300pro				DM2800/i54000pro			
锁模单元 Clamping unit																						
合模力	Clamping force	KN	18000				22000				22000				25000				28000			
移模行程	Opening stroke	mm	1600				1870				1870				1960				2050			
拉杆内距	Distance between tie bars(W×H)	mm	1580x1480				1800x1620				1800x1620				1870x1700				2000x1750			
模具厚度	Mold installation height	mm	700-1600				700-1700				700-1700				700-1800				800-1900			
顶出行程	Eject stroke	mm	400				400				400				400				470			
顶出力	Force	KN	400				550				550				550				550			
注射单元 Injection unit																						
螺杆代号	Screw type		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
螺杆直径	Screw diameter	mm	130	140	150	160	150	160	170	180	160	170	180	185	160	170	180	185	190	200	210	220
螺杆长径比	Effective Screw length	L/D	23.7	22.0	20.5	19.3	23.5	22.0	20.7	19.6	23.3	22.0	20.8	19.8	23.3	22.0	20.8	19.8	23.2	22.0	21.0	20.0
理论容量	Injection volume	cm ³	8763	10158	11664	13675	13605	15480	17473	19620	19095	21556	24167	25526	19095	21556	24167	25526	32606	36128	39831	43715
注射重量	Injection weight(PS)	g	7974	9244	10614	12444	12381	14087	15900	17854	17376	19616	21992	23229	17376	19616	21992	23229	29671	32877	36247	39781
注射压力	Injection pressure	MPa	202	175	152	134	193	169	151	134	202	179	162	153	202	179	162	153	184	166	151	137
注射速率	Injection capacity	cm ³ /s	1097	1272	1460	1661	1197	1362	1537	1723	1468	1646	1834	2032	1468	1646	1834	2032	1796	1990	2193	2408
螺杆转速	Screw speed	rpm	98				65				65				65				65			
其它 Others																						
油泵压力	Max. pump pressure	MPa	17.5				17.5				17.5				17.5				17.5			
电机功率	Pump motor power	KW	168.0				168.0				220.0				220.0				220.0			
电热功率	Heater power	KW	110.0				140.0				176.0				176.0				200.0			
油箱容积	Oil tank capacity	L	2400				2600				2900				2900				3800			
机器重量	Machine weight	Ton	120.0				150.0				155.0				180.0				200T			
外形尺寸	Machine dimension LxWxH	m	16.4x3.5x3.6				18x3.6x4				18.4x3.6x4				18.8x4x4.4				21.0x4.2x4.5			

模板正面尺寸
Platen dimensions



模板侧面尺寸
Mould space dimensions

