



CHINA-HWAMDA
THE CRAFTSMANSHIP OF THE WORLD
中国的华美达,世界的工匠心

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NINGBO HWAMDA GROUP CO., LTD.

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EM 全电动注塑成型机
FULLY ELECTRIC INJECTION MOLDING MACHINE



2023年3月修订

宁波华美达集团有限公司
NINGBO HWAMDA GROUP CO., LTD.



宁波华美达机械制造有限公司地处“中国塑机之都”的浙江省宁波市，是一家专业化生产塑胶注塑成型机械的高新技术企业，经过不断的技术创新，公司自主研发的系列产品已广泛应用于汽车、电子、医疗、环保、包装、物流等众多注塑生产行业，目前，华美达已经成长为具有雄厚规模和竞争实力的中国注塑机行业前列企业。

华美达拥有4个生产基地，超过10万平方米厂房设施，各种大型先进精密加工设备，团结了一支高素质的企业管理与技术创新团队。公司一直致力于高效节能型注塑机的开发制造与市场推广，已成功推出的有伺服节能注塑机、二板注塑机、全电动注塑机、高速精密注塑机、双色注塑机等多个系列以及各种行业专用型产品。

为贴近客户，公司大力开拓国际市场，在国内外建立60余处完善的销售机构及海外服务中心，华美达注塑机受到了北美、中东、南美、东南亚、欧洲等各个国家和地区客户的使用和欢迎，建立了面向国际的市场营销体系。

华美达公司通过了ISO9001、ISO14001、OHSAS18001管理体系认证以及CE产品认证，所生产的各系列注塑机均配备世界知名品牌的液压、电器及控制系统，引进国际领先设计理念，通过严格的检验、加工、装配、调试，为客户提供最优质的产品与服务。

一流的品质，是华美达执着追求的重要目标。尽力满足顾客需求，以精益求精、开拓进取的企业精神缔造辉煌的未来，公司始终坚持“专心专注，做好塑机”的企业理念，为中国注塑机械产业的发展和提高做出自己的贡献。

关于华美达 About US



Ningbo Hwamda Machinery Manufacturing Co., Ltd. is a new and high technology enterprise devoted to manufacture plastic injection machine, lying in the "City of China plastic molding machine" - Ningbo, Zhejiang.

Now, Hwamda Company owns four factories with more than one hundred thousand square meters. There are over 400 workers and staff members, holding together a high-quality team of managers and technical team. Our company always devoted to R&D for high efficiency and energy-saving injection molding machine. At present, our main products including servo motor energy saving machines, two platen machines, full electric machines, high speed machine for thin-wall products, twin-color machines and other standard or special injection molding machines.

Following the idea of serving customers, we have established more than 60 perfect sales & service branch in China and abroad. Hwamda machine has sold to many countries such as North America, Europe, Russia, Poland, Mexico, India, Sri Lanka, Egypt, Brazil, Peru, Colombia, etc. Hwamda has gradually set up a marketing system covering both the domestic and overseas markets.

Hwamda has passed the ISO9001, ISO14001, OHSAS18001 and CE certification. All the series of injection machine are equipped with world famous hydraulic & electric elements and control system. Through strict inspection, assembly and test, Hwamda has provided first-class products and services to customers.

"First-class quality" is what we are pursuing the most. We will try our best to meet the requirements of customers and create even better future. Our company firmly sticks to the idea of "With undivided attention to manufacture excellent plastic injection molding machines", and makes our own contribution for the development and improvement of national plastic industry.



HMD EM SERIES

全电动注塑成型机
Fully Electric Injection Molding Machine

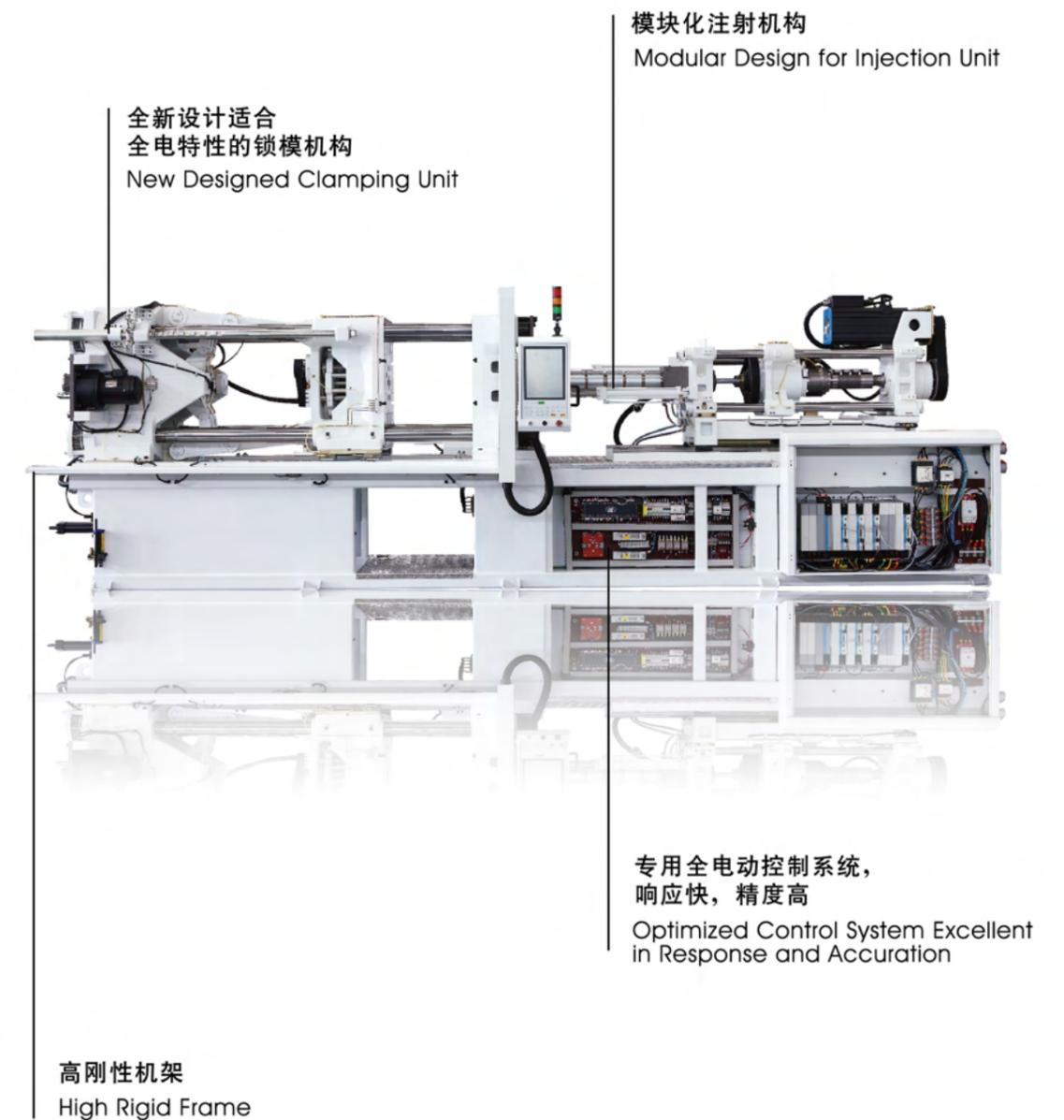


华美达EM系列是基于“高射速”，“高响应”，“高可靠性”的设计思路，所研发的全新系列全电动注塑机，通过引入模块化设计理念使机器匹配灵活多变，同等吨位设备可选配多种规格注塑机构，更好满足客户对精密产品注塑的各种需求。

The new concept EM series full electric machine adopted high injection speed fast response and reliable span life. With compact modular design, it provides wide range of injection unit to be the best solution for high precise products.

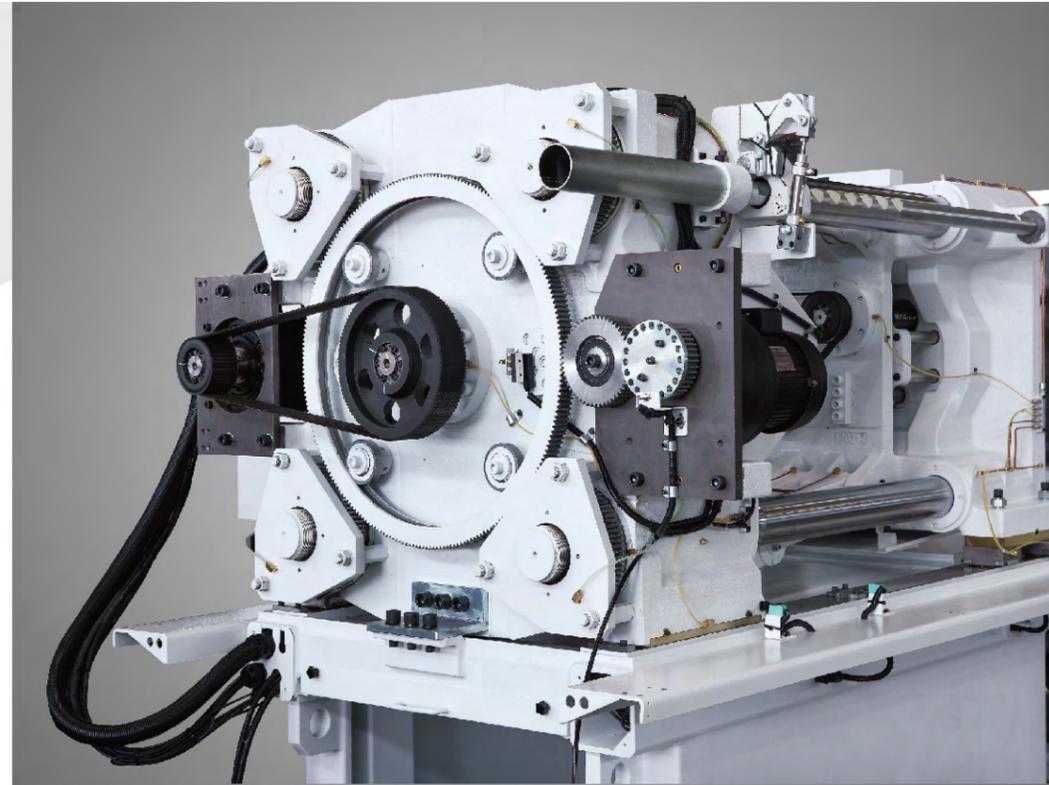
Overview

EM系列全电机特点



Clamping unit

锁模单元



- 全新设计适合全电机特性的锁模机构，运行特性平稳、高速，模板刚性好，变形小，尤其适合精密模具使用。
- New design clamping unit with high rigidity structure helps in hence of stable and efficiency performance as well as lowering contraction defects, thereby it is specialized in precise products.
- 采用封闭式定量加压器润滑系统，油脂用量小，润滑可靠，同时保证部件洁净美观。
- Close type lubrication system guarantees precision and reliable oil maintenance and presents clear environment.

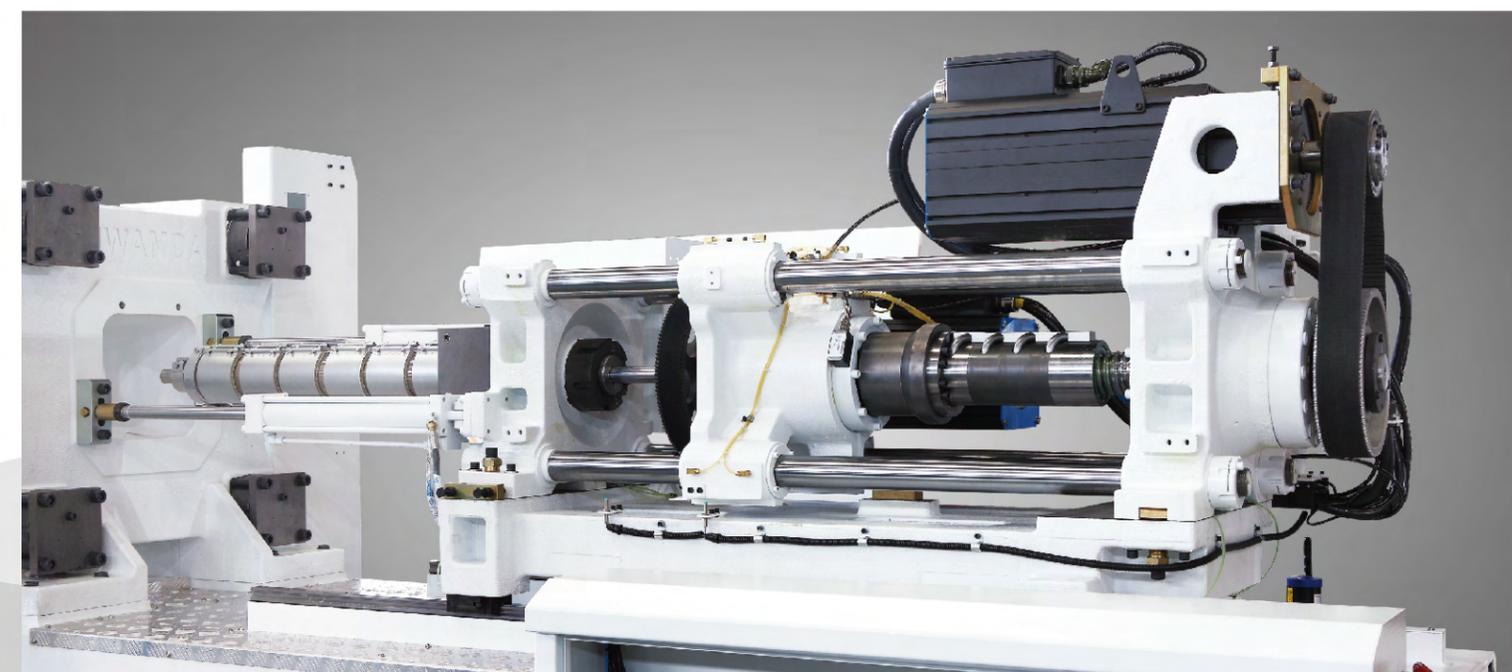


Injection unit

注射单元

- 注射机构采用模块化设计理念，相同锁模部件可与不同规格的注射部件自由组合，满足不同客户对注塑单元的特殊需求。
- Wide variety injection unit with modular design can be provided depending on the features of molded products.

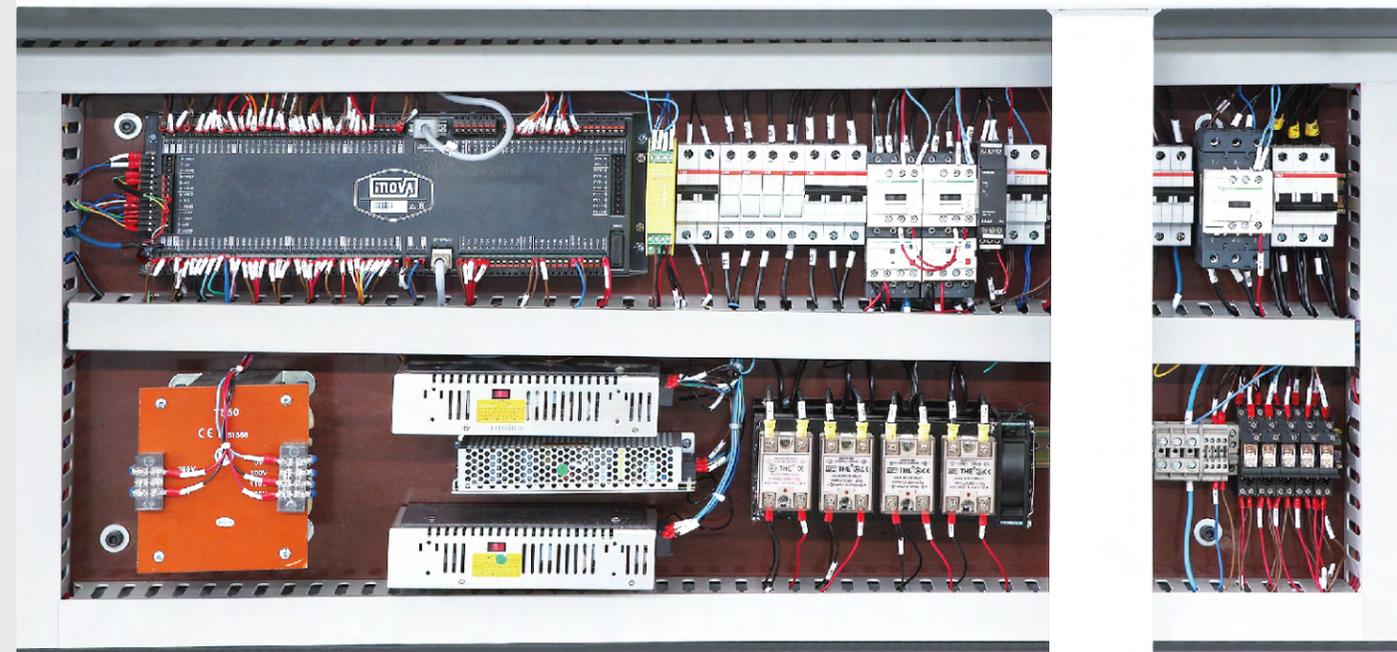
- 优化注射运动部件设计，使注射速度提升，动态响应快 0~300mm/s，注射速度响应均小于40ms，满足客户对超薄精密零件的高要求生产。
- High speed performance on injection speed 0~300MM/S and response 40ms, it suits to most of precise and thin-wall product.



Control system

控制系统

- 高响应全电动注塑机专用电脑，配合EATHERCAT总线通讯技术，抗干扰性强，运算速度快，数据实时传输快，控制精准度好。
- The high performance controller co-effective with EATHERCAT can-bus system offers high efficiency anti-jamming performance and high speed internal calculation to guarantee real-time bulk data transfer and precise control.



Multi-Functional Man-Machine Friendly

功能丰富，人机界面友好



■ 主画面
Main Page



■ 注射功能
Injection Unit



■ 锁模功能
Clamping Unit

■ 锁具参数存储
Production Data Storage



■ 中子画面
Core Pull



■ 模内压
Mold Pressure

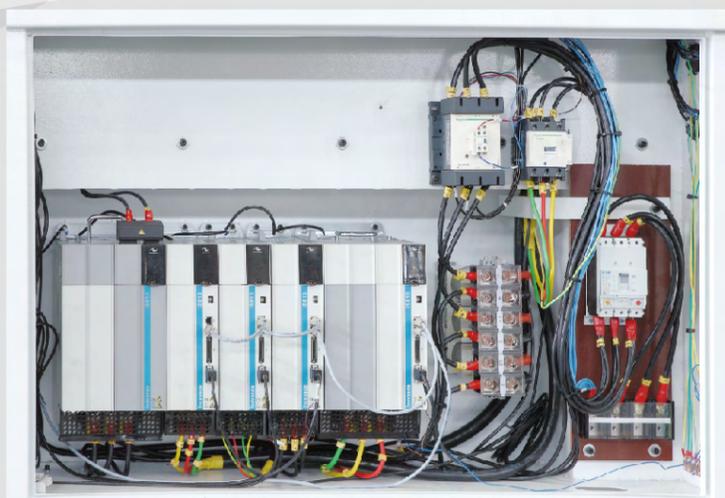
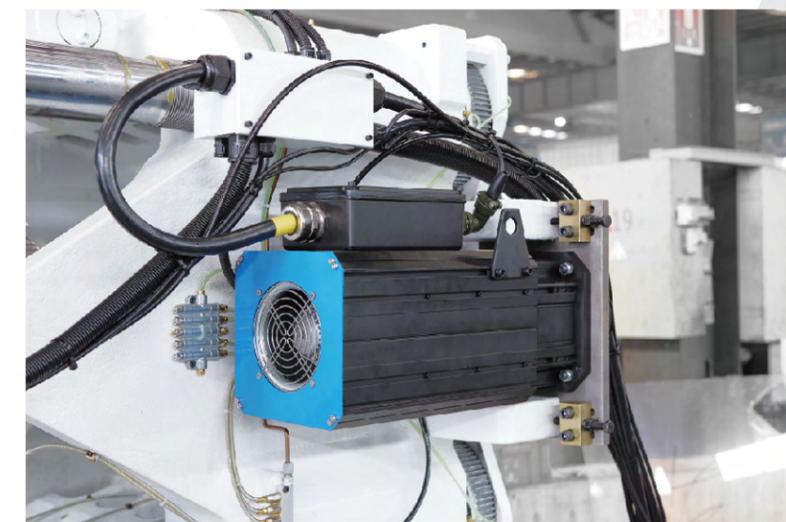




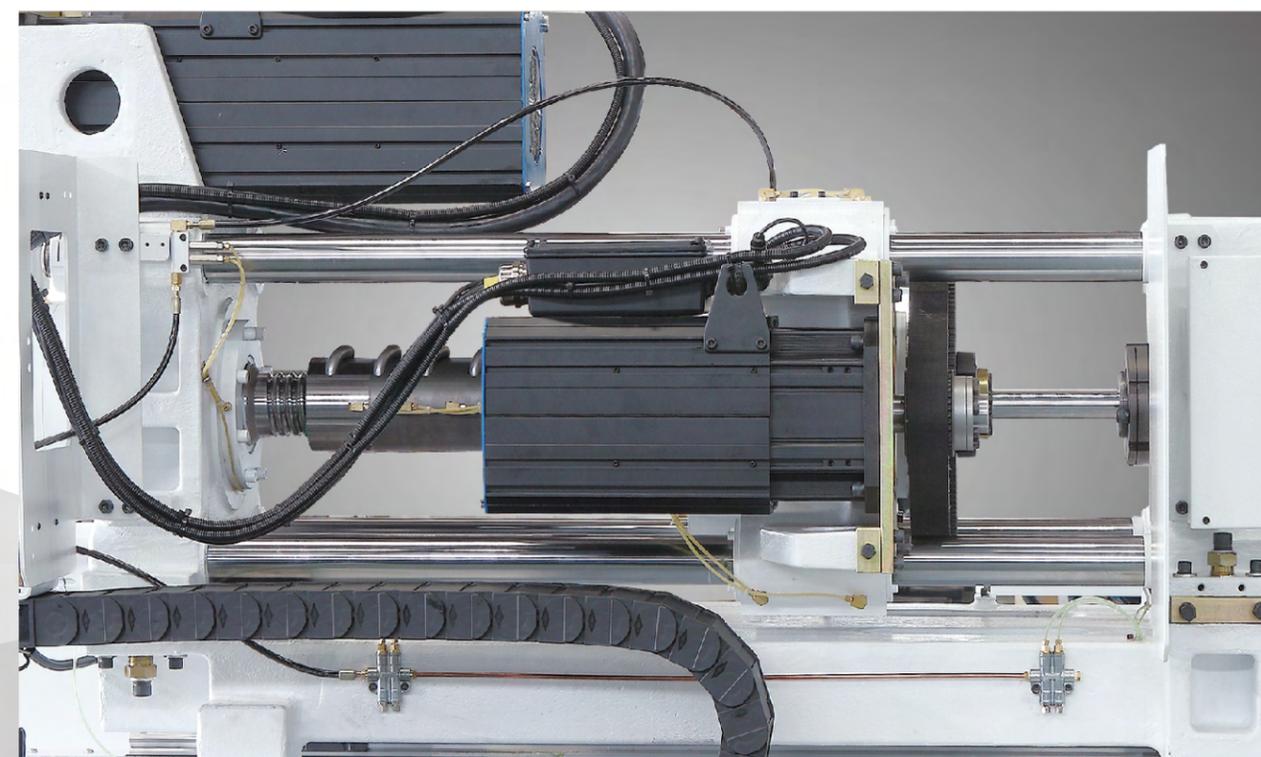
Control system

动力控制系统

- 定制化的全电动专用永磁伺服电机，动态响应快，功率密度高。
- Full electric machine costumed sync servo motor enables efficiency response and capacity.



- 模块化共直流母线驱动设计，结构紧凑，功率密度高，维护方便。
- The designation based on modular common-DC-bus to enhance machine capacity and user convenience and practicality.
- 支持多种通讯协议，控制方式灵活可靠。
- Multi-communication protocol is supported to realize flexible and reliable control.

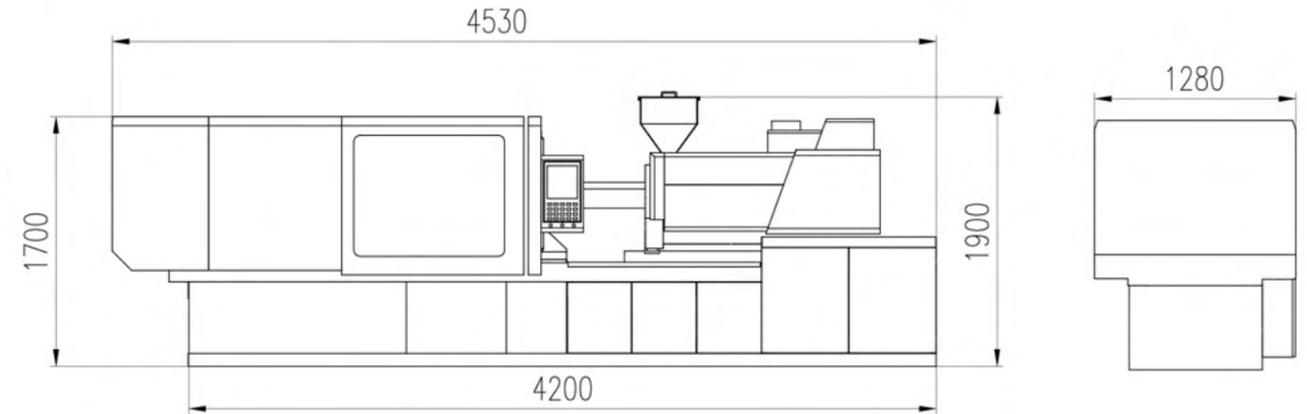


技术参数表 SPECIFICATIONS

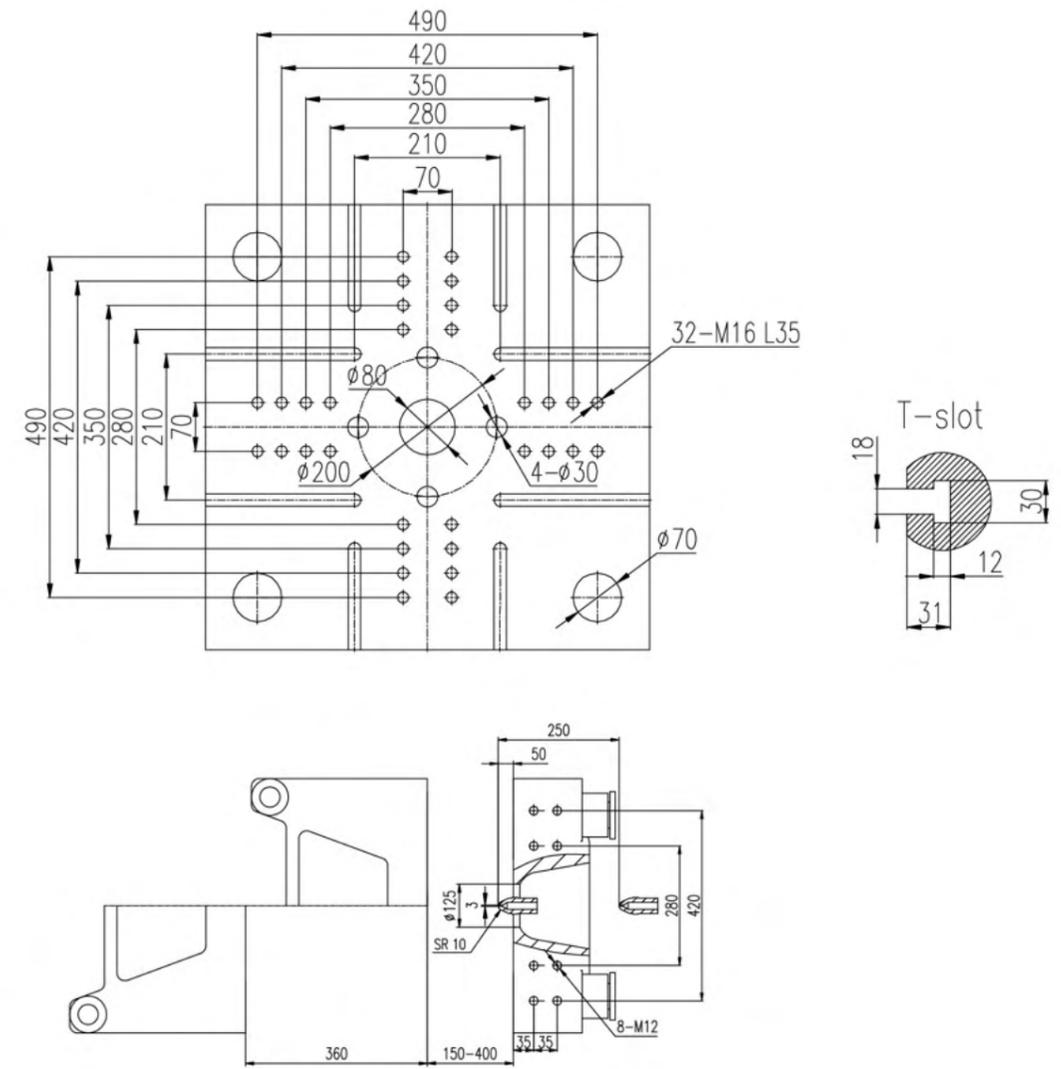
参数	PARAMETER	UNIT	HMD EM100								
合模装置		CLAMPING UNIT									
锁模力	Clamping force	kN	1000								
移模行程	Mold opening stroke	mm	360								
模板尺寸	Platen size	mm	640 × 640								
拉杆内间距	Dist. between tie bars (H × V)	mm	420 × 420								
模板最大距离	Max. daylight	mm	760								
容模量 (最小-最大)	Mold thickness (Min-Max)	mm	150 ~ 400								
顶出行程	Ejector stroke	mm	100								
顶出力	Ejector tonnage	kN	20								
注射装置		INJECTION UNIT									
理论注射容量	Injection volume (theoretical)	cm ³	C120h			C160h			C210h		
			46	64	74	64	74	96	86	113	142
注射重量	Injection weight (PS)	g (克)	41	58	67	58	67	88	78	102	130
		oz (盎司)	1.45	2.05	2.36	2.05	2.36	3.1	2.75	3.6	4.59
注射速度	Injection speed	mm/s	350			350			350		
注射速率	Injection rate (PS)	g/s	133	186	215	186	215	280	215	280	355
螺杆直径	Screw diameter	mm	22	26	28	26	28	32	28	32	36
注射压力	Injection pressure	MPa	281	201	173	247	213	163	276	211	167
连续保压压力	Hold force	MPa	210	151	130	185	160	122	207	158	125
螺杆长径比	Screw L/D ratio	—	23.6	20	18.6	21.5	20	18.7	23.4	20.5	18.2
螺杆行程	Screw stroke	mm	120			120			140		
螺杆转速	Screw speed	r/min	400			400			400		
动力/电热		POWER UNIT									
电器总容量	Connection power	kW	28			30			33		
外形尺寸 (L × W × H)	Machine dimension (L × W × H)	m	4.5 × 1.3 × 1.9			4.5 × 1.3 × 1.9			4.5 × 1.3 × 1.9		
机器重量	Machine weight	Ton	4.3			4.3			4.5		
温度控制区数	Number of temp control zones	—	4			4			4		

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
Remark: We reserve the right to make any technical improvement without prior notice.

EM100机器尺寸 MACHINE DIMENSION



EM100模板尺寸 PLATEN DIMENSION

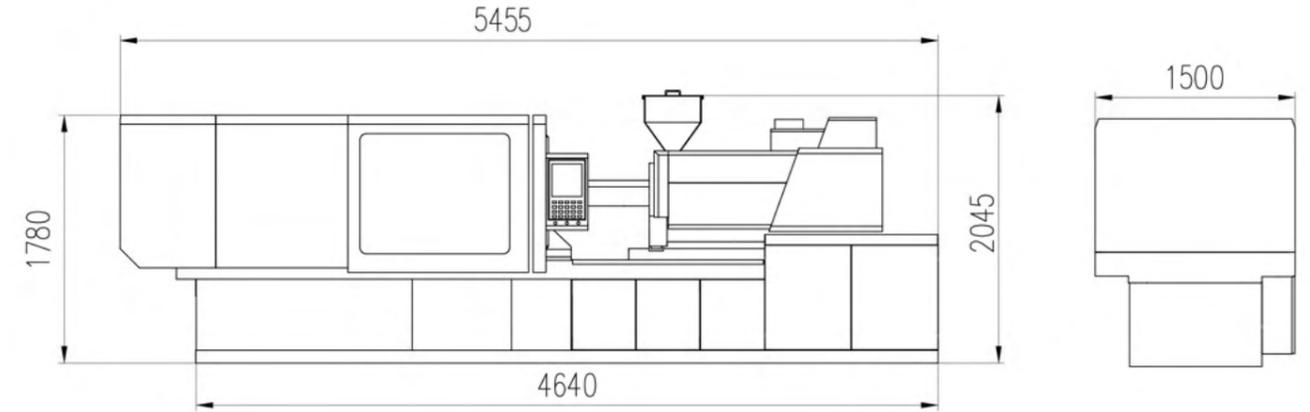


技术参数表 SPECIFICATIONS

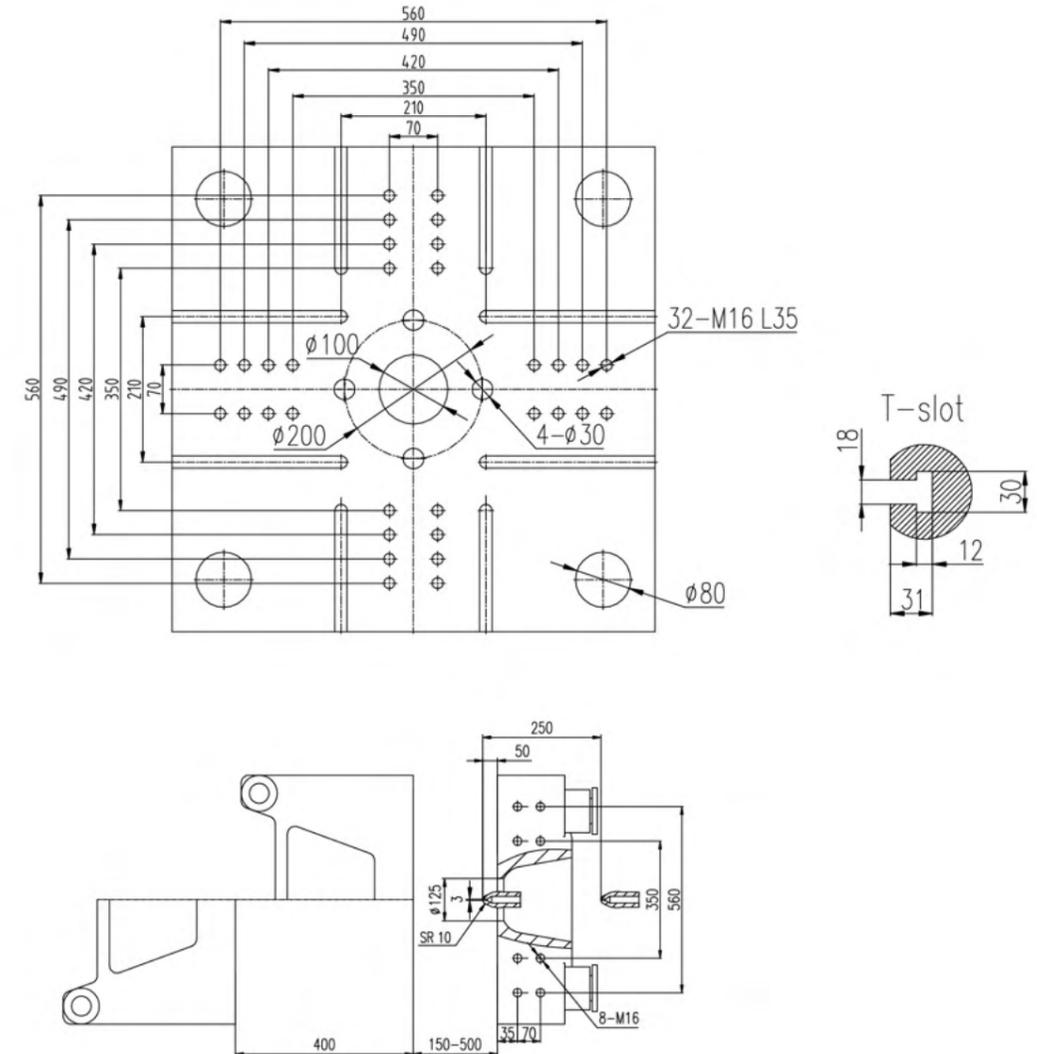
参数	PARAMETER	UNIT	HMD EM130								
合模装置		CLAMPING UNIT									
锁模力	Clamping force	kN	1300								
移模行程	Mold opening stroke	mm	400								
模板尺寸	Platen size	mm	705 × 705								
拉杆内间距	Dist. between tie bars (H × V)	mm	470 × 470								
模板最大距离	Max. daylight	mm	900								
容模量 (最小-最大)	Mold thickness (Min-Max)	mm	150 ~ 500								
顶出行程	Ejector stroke	mm	100								
顶出力	Ejector tonnage	kN	30								
注射装置		INJECTION UNIT									
理论注射容量	Injection volume (theoretical)	cm ³	C160h			C210h			C315h		
			64	74	96	86	113	142	129	163	201
注射重量	Injection weight (PS)	g (克)	58	67	88	78	102	130	117	148	183
		oz (盎司)	2.05	2.36	3.1	2.75	3.6	4.59	4.13	5.22	6.46
注射速度	Injection speed	mm/s	350			350			350		
注射速率	Injection rate (PS)	g/s	186	215	280	215	280	355	280	355	438
螺杆直径	Screw diameter	mm	26	28	32	28	32	36	32	36	40
注射压力	Injection pressure	MPa	247	213	163	276	211	167	259	205	166
连续保压压力	Hold force	MPa	185	160	122	207	158	125	194	154	124
螺杆长径比	Screw L/D ratio	—	21.5	20	18.7	23.4	20.5	18.2	23	20.5	18.5
螺杆行程	Screw stroke	mm	120			140			160		
螺杆转速	Screw speed	r/min	400			400			400		
动力/电热		POWER UNIT									
电器总容量	Connection power	kW	31			35			40		
外形尺寸 (L × W × H)	Machine dimension (L × W × H)	m	5.5 × 1.5 × 2.1			5.5 × 1.5 × 2.1			5.5 × 1.5 × 2.1		
机器重量	Machine weight	Ton	5.2			5.3			5.3		
温度控制区数	Number of temp control zones	—	4			4			4		

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
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EM130机器尺寸 MACHINE DIMENSION



EM130模板尺寸 PLATEN DIMENSION

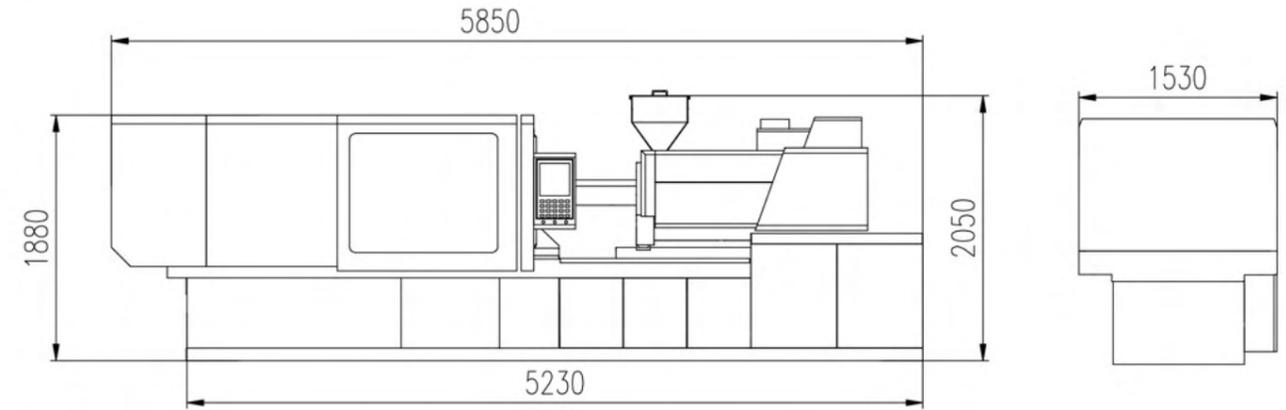


技术参数表 SPECIFICATIONS

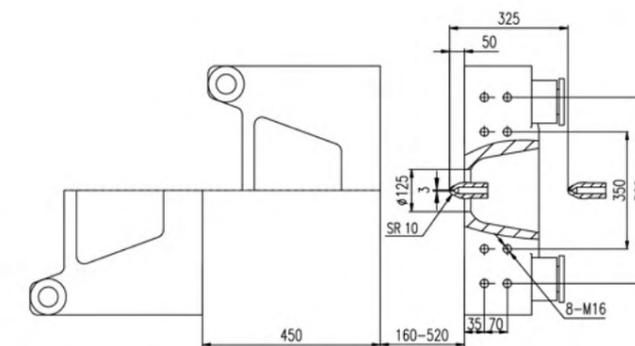
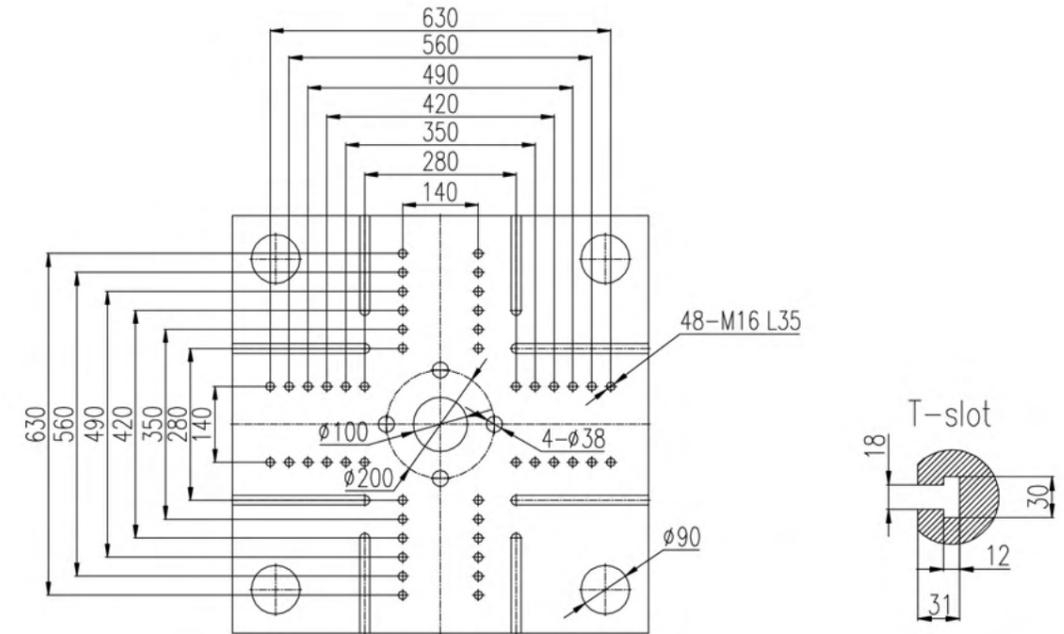
参数	PARAMETER	UNIT	HMD EM170								
合模装置		CLAMPING UNIT									
锁模力	Clamping force	kN	1700								
移模行程	Mold opening stroke	mm	450								
模板尺寸	Platen size	mm	770 × 770								
拉杆内间距	Dist. between tie bars (H × V)	mm	520 × 520								
模板最大距离	Max. daylight	mm	970								
容模量 (最小-最大)	Mold thickness (Min-Max)	mm	160 ~ 520								
顶出行程	Ejector stroke	mm	120								
顶出力	Ejector tonnage	kN	35								
注射装置		INJECTION UNIT									
理论注射容量	Injection volume (theoretical)	cm ³	C210h			C315h			C430h		
			86	113	142	129	163	201	183	226	286
注射重量	Injection weight (PS)	g (克)	78	102	130	117	148	183	167	206	260
		oz (盎司)	2.75	3.6	4.59	4.13	5.22	6.46	5.89	7.27	9.17
注射速度	Injection speed	mm/s	350			350			350		
注射速率	Injection rate (PS)	g/s	215	280	355	280	355	438	355	438	554
螺杆直径	Screw diameter	mm	28	32	36	32	36	40	36	40	45
注射压力	Injection pressure	MPa	276	211	167	259	205	166	248	201	160
连续保压压力	Hold force	MPa	207	158	125	194	154	124	186	151	120
螺杆长径比	Screw L/D ratio	—	23.4	20.5	18.2	23	20.5	18.5	23.3	21	18.6
螺杆行程	Screw stroke	mm	140			160			180		
螺杆转速	Screw speed	r/min	400			400			400		
动力/电热		POWER UNIT									
电器总容量	Connection power	kW	37			42			45		
外形尺寸 (L × W × H)	Machine dimension (L × W × H)	m	5.9 × 1.6 × 2.1			5.9 × 1.6 × 2.1			5.9 × 1.6 × 2.1		
机器重量	Machine weight	Ton	6.8			7.0			7.0		
温度控制区数	Number of temp control zones	—	4			4			4		

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EM170机器尺寸 MACHINE DIMENSION



EM170模板尺寸 PLATEN DIMENSION

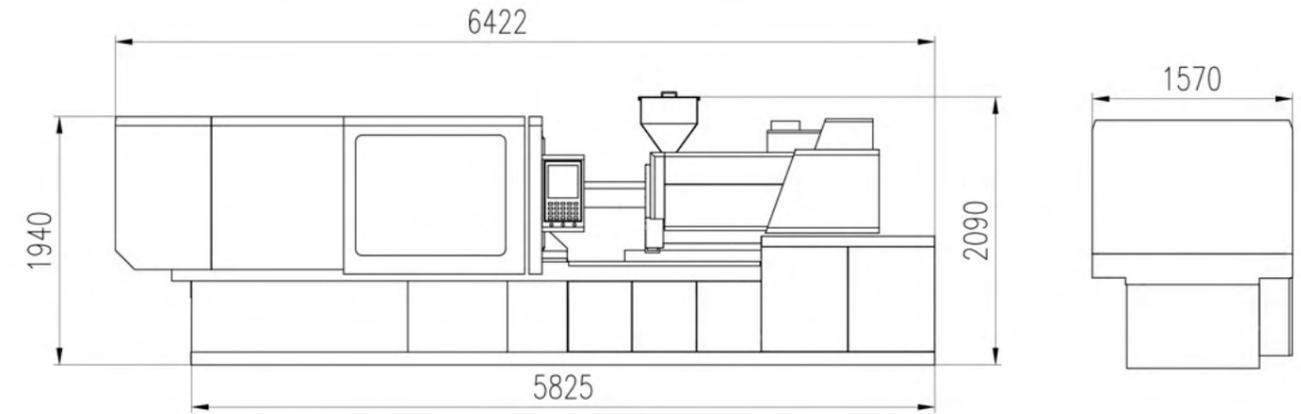


技术参数表 SPECIFICATIONS

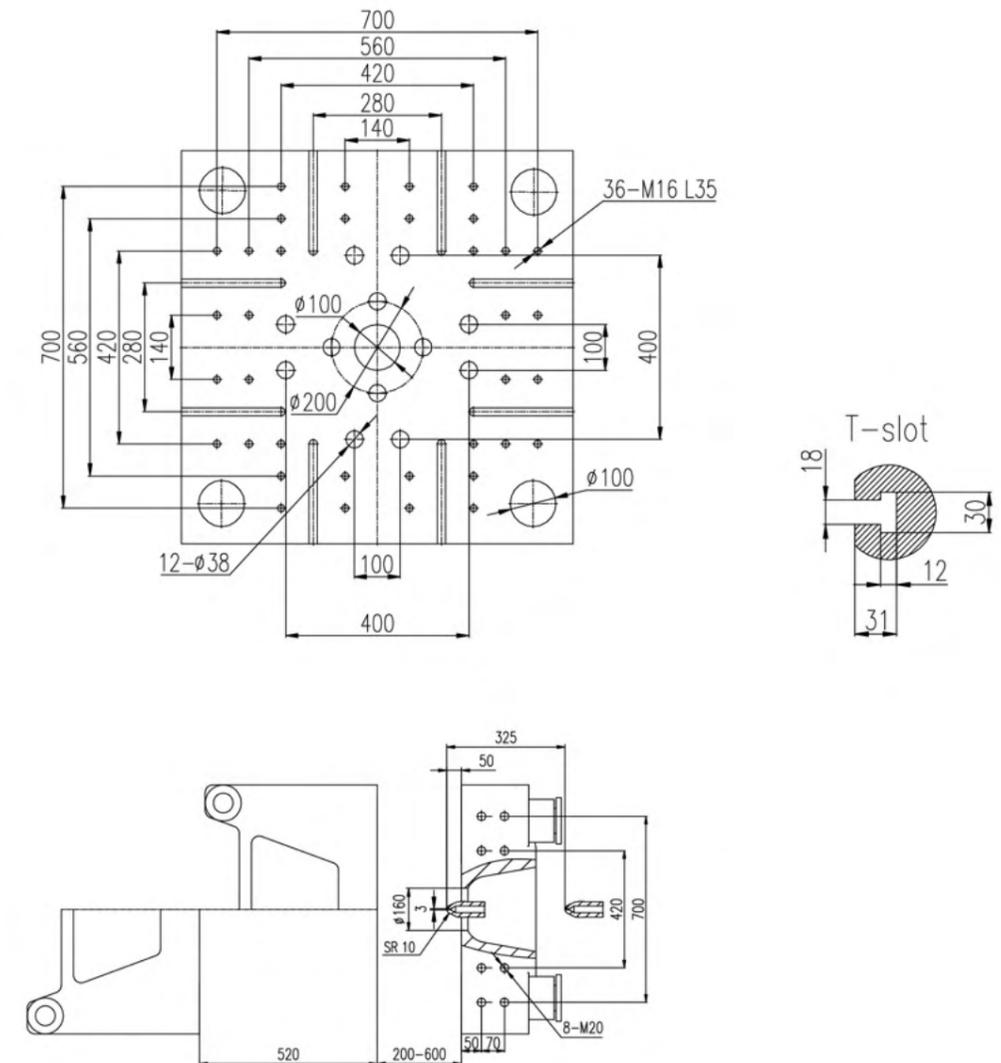
参数	PARAMETER	UNIT	HMD EM200								
合模装置		CLAMPING UNIT									
锁模力	Clamping force	kN	2000								
移模行程	Mold opening stroke	mm	520								
模板尺寸	Platen size	mm	855 × 855								
拉杆内间距	Dist. between tie bars (H × V)	mm	580 × 580								
模板最大距离	Max. daylight	mm	1120								
容量量 (最小-最大)	Mold thickness (Min-Max)	mm	200 ~ 600								
顶出行程	Ejector stroke	mm	140								
顶出力	Ejector tonnage	kN	45								
注射装置		INJECTION UNIT									
			C315h			C430h			C620h		
理论注射容量	Injection volume (theoretical)	cm ³	129	163	201	183	226	286	251	318	392
注射重量	Injection weight (PS)	g (克)	117	148	183	167	206	260	228	289	357
		oz (盎司)	4.13	5.22	6.46	5.89	7.27	9.17	8.47	10.72	13.23
注射速度	Injection speed	mm/s	350			350			300		
注射速率	Injection rate (PS)	g/s	280	355	438	355	438	554	377	476	588
螺杆直径	Screw diameter	mm	32	36	40	36	40	45	40	45	50
注射压力	Injection pressure	MPa	259	205	166	248	201	160	251	198	160
连续保压压力	Hold force	MPa	194	154	124	186	151	120	188	148	120
螺杆长径比	Screw L/D ratio	—	23	20.5	18.5	23.3	21	18.6	23.6	21	18.9
螺杆行程	Screw stroke	mm	160			180			200		
螺杆转速	Screw speed	r/min	400			400			300		
动力/电热		POWER UNIT									
电器总容量	Connection power	kW	45			48			53		
外形尺寸 (L × W × H)	Machine dimension (L × W × H)	m	6.4 × 1.6 × 2.1			6.4 × 1.6 × 2.1			6.4 × 1.6 × 2.1		
机器重量	Machine weight	Ton	8.8			9.1			9.3		
温度控制区数	Number of temp control zones	—	4			4			4		

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
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EM200机器尺寸 MACHINE DIMENSION



EM200模板尺寸 PLATEN DIMENSION

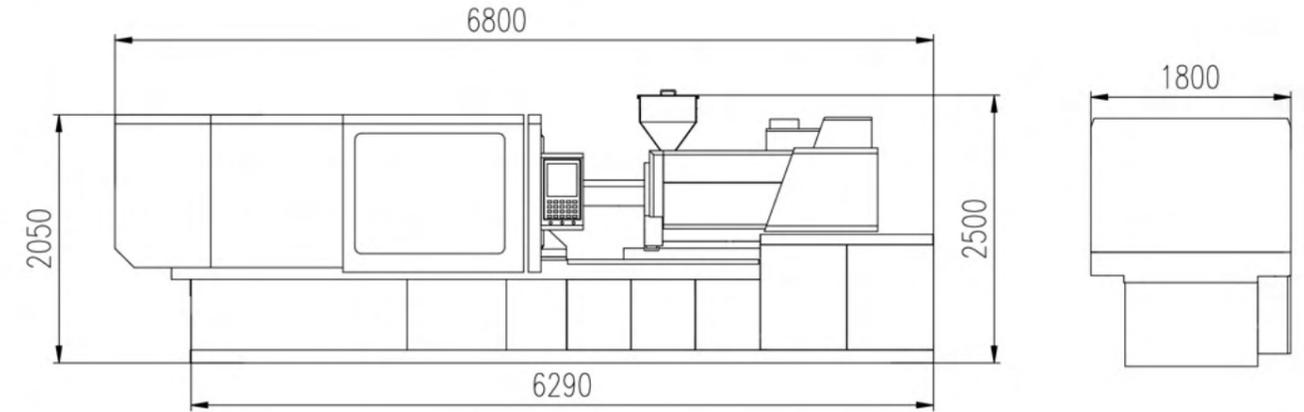


技术参数表 SPECIFICATIONS

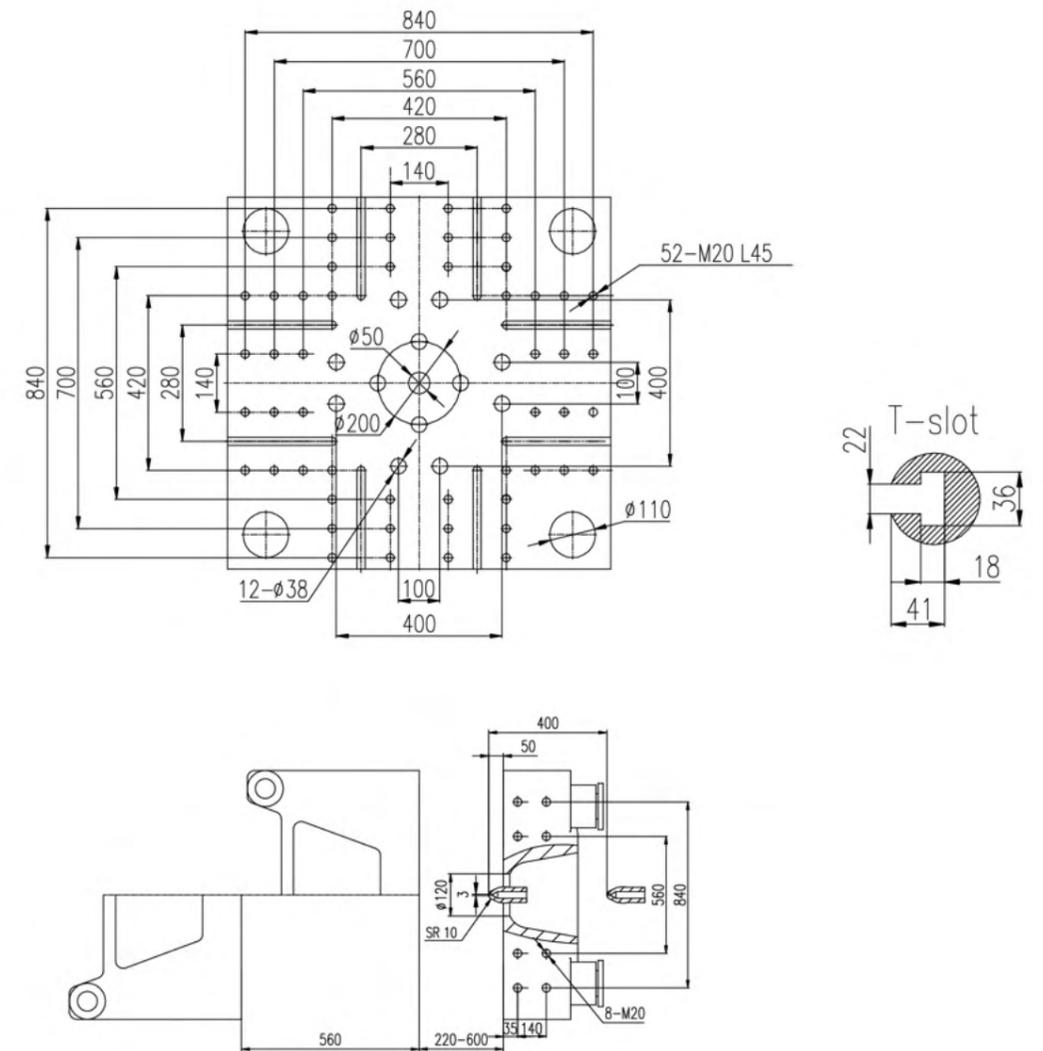
参数	PARAMETER	UNIT	HMD EM250								
合模装置		CLAMPING UNIT									
锁模力	Clamping force	kN	2500								
移模行程	Mold opening stroke	mm	560								
模板尺寸	Platen size	mm	925 × 925								
拉杆内间距	Dist. between tie bars (H × V)	mm	630 × 630								
模板最大距离	Max. daylight	mm	1160								
容模量 (最小-最大)	Mold thickness (Min-Max)	mm	220 ~ 600								
顶出行程	Ejector stroke	mm	150								
顶出力	Ejector tonnage	kN	50								
注射装置		INJECTION UNIT									
			C430h			C620h			C850		
理论注射容量	Injection volume (theoretical)	cm ³	183	226	286	264	334	412	342	422	511
注射重量	Injection weight (PS)	g (克)	167	206	260	240	304	375	311	384	465
		oz (盎司)	5.89	7.27	9.17	8.47	10.72	13.23	11.0	13.5	16.4
注射速度	Injection speed	mm/s	350			300			164		
注射速率	Injection rate (PS)	g/s	355	438	554	377	476	588	237	293	354
螺杆直径	Screw diameter	mm	36	40	45	40	45	50	45	50	55
注射压力	Injection pressure	MPa	248	201	160	251	198	160	250	203	167
连续保压压力	Hold force	MPa	186	151	120	188	148	120	200	162	134
螺杆长径比	Screw L/D ratio	—	23.3	21	18.6	23.6	21	18.9	23.3	21	19.1
螺杆行程	Screw stroke	mm	180			210			215		
螺杆转速	Screw speed	r/min	400			300			300		
动力/电热		POWER UNIT									
电器总容量	Connection power	kW	48			53			60		
外形尺寸 (L × W × H)	Machine dimension (L × W × H)	m	6.8 × 1.8 × 2.5			6.8 × 1.8 × 2.5			6.8 × 1.8 × 2.5		
机器重量	Machine weight	Ton	12			12			12		
温度控制区数	Number of temp control zones	—	4			4			5		

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
Remark: We reserve the right to make any technical improvement without prior notice.

EM250机器尺寸 MACHINE DIMENSION



EM250模板尺寸 PLATEN DIMENSION

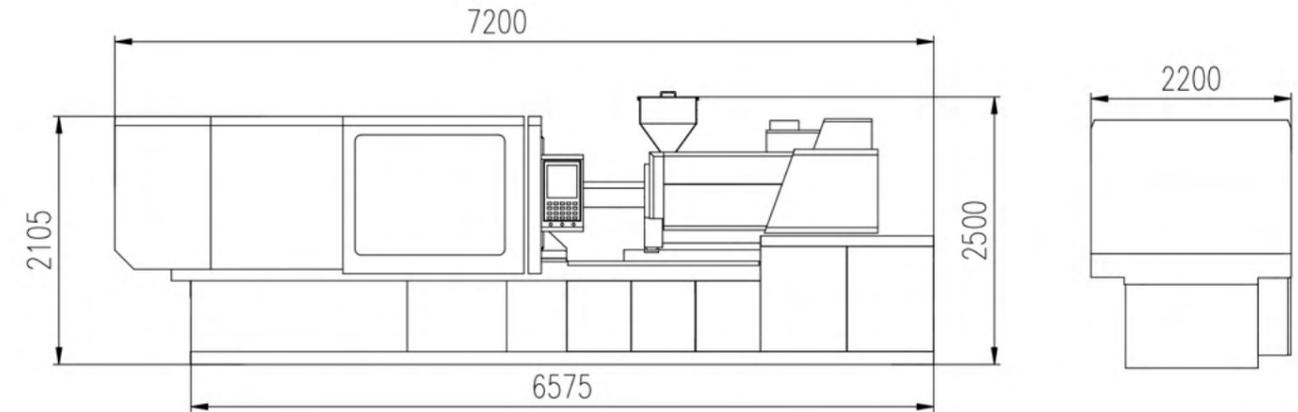


技术参数表 SPECIFICATIONS

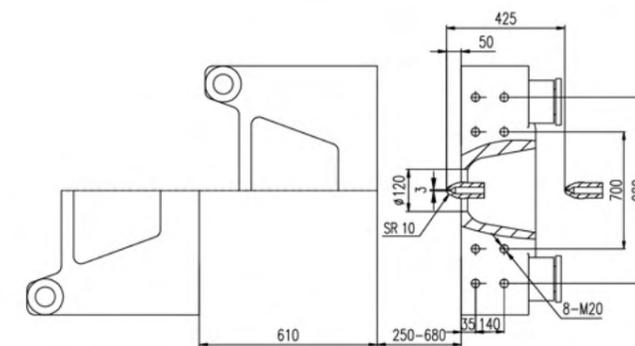
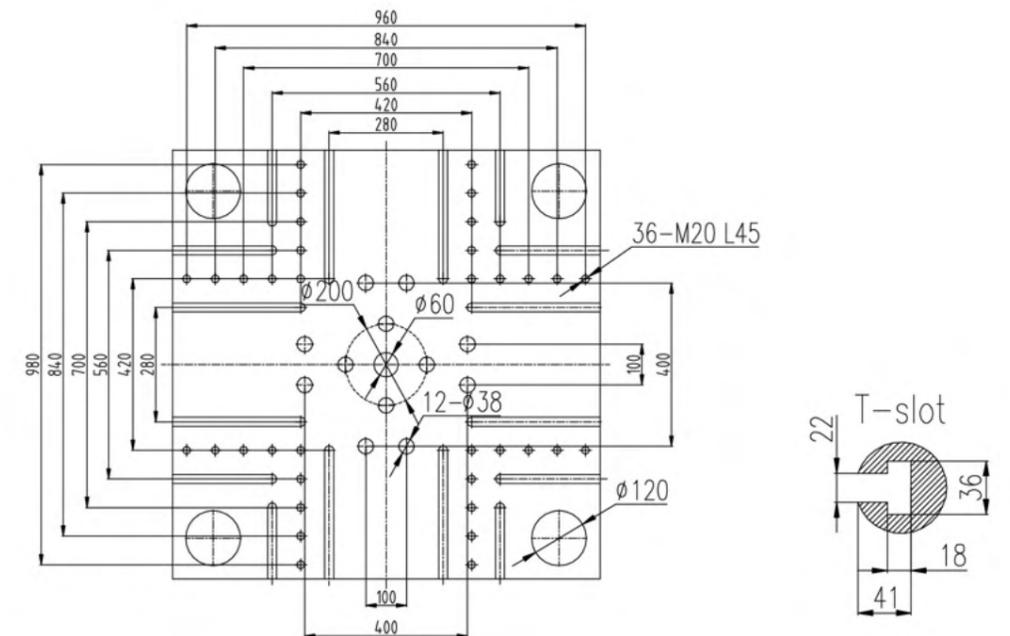
参数	PARAMETER	UNIT	HMD EM300								
合模装置		CLAMPING UNIT									
锁模力	Clamping force	kN	3000								
移模行程	Mold opening stroke	mm	610								
模板尺寸	Platen size	mm	1050 × 1050								
拉杆内间距	Dist. between tie bars (H × V)	mm	730 × 730								
模板最大距离	Max. daylight	mm	1290								
容量量 (最小-最大)	Mold thickness (Min-Max)	mm	250 ~ 680								
顶出行程	Ejector stroke	mm	160								
顶出力	Ejector tonnage	kN	68.6								
注射装置		INJECTION UNIT									
			C850			C1100			C1400		
理论注射容量	Injection volume (theoretical)	cm ³	342	422	511	471	570	678	617	735	862
注射重量	Injection weight (PS)	g (克)	311	384	465	429	519	617	562	669	785
		oz (盎司)	11.0	13.5	16.4	15.1	18.3	21.8	19.8	23.6	27.7
注射速度	Injection speed	mm/s	164			164			167		
注射速率	Injection rate (PS)	g/s	237	293	354	293	354	422	361	429	504
螺杆直径	Screw diameter	mm	45	50	55	50	55	60	55	60	65
注射压力	Injection pressure	MPa	250	203	167	220	182	153	215	181	154
连续保压压力	Hold force	MPa	200	162	134	198	164	138	194	163	139
螺杆长径比	Screw L/D ratio	—	23.3	21	19.1	23.1	21	19.3	25.2	21	19.4
螺杆行程	Screw stroke	mm	215			240			260		
螺杆转速	Screw speed	r/min	300			300			300		
动力/电热		POWER UNIT									
电器总容量	Connection power	kW	65			71			76		
外形尺寸 (L × W × H)	Machine dimension (L × W × H)	m	7.2 × 2.2 × 2.5			7.2 × 2.2 × 2.5			7.2 × 2.2 × 2.5		
机器重量	Machine weight	Ton	15			15.5			16		
温度控制区数	Number of temp control zones	—	5			5			6		

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
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EM300机器尺寸 MACHINE DIMENSION



EM300模板尺寸 PLATEN DIMENSION

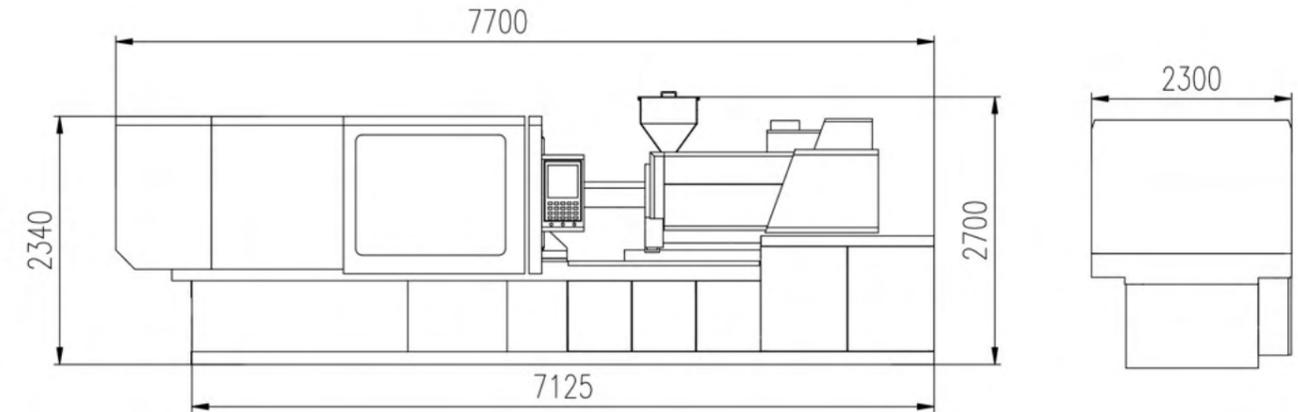


技术参数表 SPECIFICATIONS

参数	PARAMETER	UNIT	HMD EM370								
合模装置		CLAMPING UNIT									
锁模力	Clamping force	kN	3700								
移模行程	Mold opening stroke	mm	730								
模板尺寸	Platen size	mm	1170 × 1170								
拉杆内间距	Dist. between tie bars (H × V)	mm	830 × 830								
模板最大距离	Max. daylight	mm	1450								
容量量 (最小-最大)	Mold thickness (Min-Max)	mm	250 ~ 720								
顶出行程	Ejector stroke	mm	160								
顶出力	Ejector tonnage	kN	60								
注射装置		INJECTION UNIT									
			C1100			C1400			C1700		
理论注射容量	Injection volume (theoretical)	cm ³	471	570	678	617	735	862	791	929	1077
注射重量	Injection weight (PS)	g (克)	429	519	617	562	669	785	720	845	980
		oz (盎司)	15.1	18.3	21.8	19.8	23.6	27.7	25.4	29.8	34.6
注射速度	Injection speed	mm/s	164			167			167		
注射速率	Injection rate (PS)	g/s	293	354	422	361	429	504	429	504	585
螺杆直径	Screw diameter	mm	50	55	60	55	60	65	60	65	70
注射压力	Injection pressure	MPa	220	182	153	215	181	154	210	179	154
连续保压压力	Hold force	MPa	198	164	138	194	163	139	190	161	139
螺杆长径比	Screw L/D ratio	—	23.1	21	19.3	25.2	21	19.4	23	21	19.5
螺杆行程	Screw stroke	mm	240			260			280		
螺杆转速	Screw speed	r/min	300			300			300		
动力/电热		POWER UNIT									
电器总容量	Connection power	kW	71			76			83		
外形尺寸 (L × W × H)	Machine dimension (L × W × H)	m	7.7 × 2.3 × 2.7			7.7 × 2.3 × 2.7			7.7 × 2.3 × 2.7		
机器重量	Machine weight	Ton	18			18.5			19		
温度控制区数	Number of temp control zones	—	5			6			6		

说明: 由于产品改进, 技术参数的变更, 恕不另行通知。
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EM370机器尺寸 MACHINE DIMENSION



EM370模板尺寸 PLATEN DIMENSION

