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TH系列注塑机

TH SERIES INJECTION MOLDING MACHINE

直压式注塑机

Direct Clamp Injection Molding Machine



股票代码 Stock Code 300607



苏州吴中经济开发区——华东研发制造基地

Suzhou Wuzhong Economic Development Zone – East China R&D and Manufacturing Base

Introduction of Injection Molding Machine Business Unit

注塑机事业部介绍

让注塑制造更高效，让工业制造更美好

Make injection molding manufacturing more efficient, make industrial manufacturing better

拓斯达注塑机事业部是国内唯一拥有注塑机到辅机全套设备自主研发自产体系的注塑装备机构，具有自研率高、用户群广、集成经验丰富、可整厂实施四大优势。

坚持“让工业制造更美好”的使命，立足于拓斯达智能装备平台，汇聚30余年品牌的注塑机传承，致力推进注塑机和注塑系统工程更智能，为客户提供注塑全流程、全周期产品服务。

Topstar Injection Molding Machine Business Unit is the only domestic injection molding equipment organization with an "injection molding machine and auxiliary equipment self-research and self-production system". Its advantages are high self-research rate, wide user base, integration experience and implementation of the whole plant.

Topstar insists on the mission of "making industrial manufacturing better". Based on the Topstar intelligent equipment platform and more than 30 years of brand injection molding machine heritage, we are committed to promoting more intelligent injection molding machines and system engineering, to provide customers with the whole process and the whole cycle of injection molding product services.

研发理念

R&D Concept

拓斯达注塑机研发理念聚焦“系统化、通用化、精密化、性价比”。

Topstar injection molding machine research and development concept focus on "systematization, universalization, precision, cost-effectiveness".

系统化是指通过硬件注塑机机械手辅机的配合，实现如“机械手跟踪锁模位置补偿”提高注塑工站性能，通过软件注塑机控制系统实现注塑机辅机一体化控制，形成注塑行业系统化整体解决方案。

Systematization refers to the use of hardware to enable the injection molding machine, robot and auxiliary machine to cooperate to achieve "robot tracking clamping position compensation" and improve the performance of the injection molding station. At the same time, the use of "injection molding machine control system" software to achieve the integration of injection molding machine and auxiliary machine control, thus forming a systemic overall solution for the injection molding industry.

通用化是指拓斯达注塑机面向大多数行业，增加注塑机应用的场景，为客户多种类产品生产提供便利。

Generalization means that the Topstar injection molding machine applies to most industries and scenarios of injection molding machine applications, and it can facilitate the production of many kinds of products for customers.

精密化是指通过自主研发，不断优化产品设计，提升温度、速度、注射压力、降低原料及能源消耗等关键指标控制，提升制品质量及生产效益。

Precision refers to the optimization of independent research and product design to improve temperature, speed, injection pressure; reduce raw materials; control energy consumption and other key indicators, to improve product quality and production efficiency.

性价比则满足与相同价位产品，实现在配件、功能上提升10%–15%的设计原则，为客户提效降本。

Cost-effectiveness refers to the design principle of "10%–15% improvement in accessories and functions of injection molding equipment" when comparing with products of the same price level, to improve efficiency and reduce costs for customers.

TH Series Products

TH系列产品

注塑机具有能一次成型外型复杂、尺寸精确或带有金属嵌件的质地密致的塑料制品的能力。

The injection molding machine has the ability to mold dense plastic products with complex appearance, precise dimensions or metal inserts in one go.

产品特点

Product Features



稳定坚固、简单实用
Stable and sturdy,
simple and practical



高可靠性、容易操作
High reliability and
easy to operate



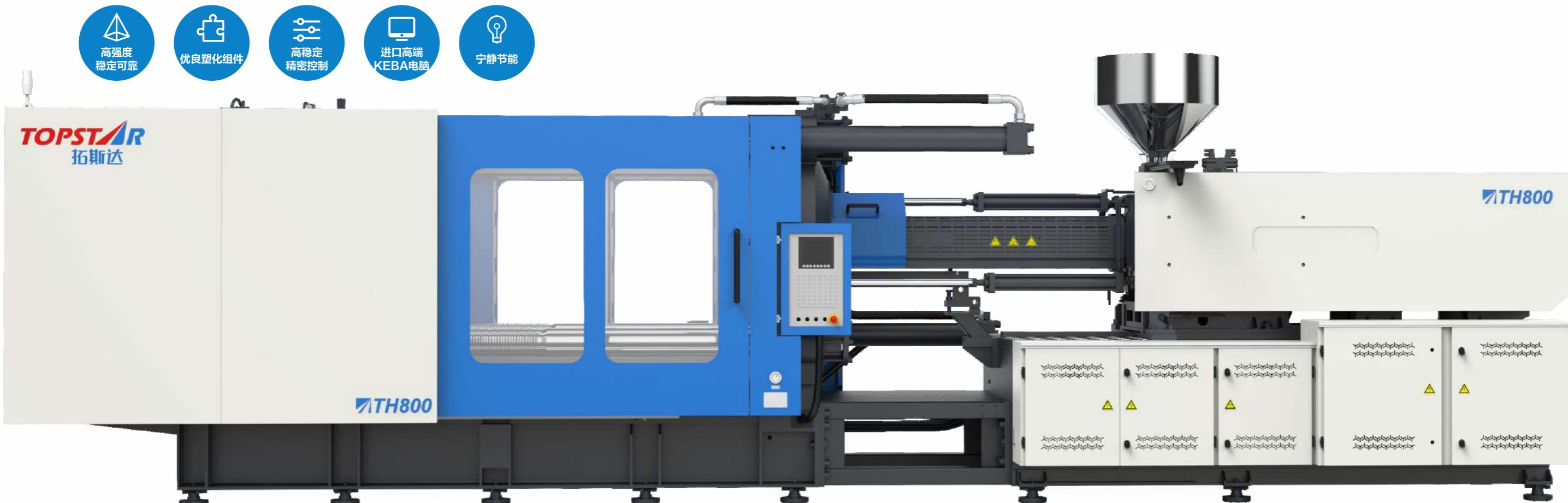
易于加工、安装
Easy to process and install



方便维修、保养
Easy to repair and maintain

Application Industries

应用行业



Product Accessories

产品配件

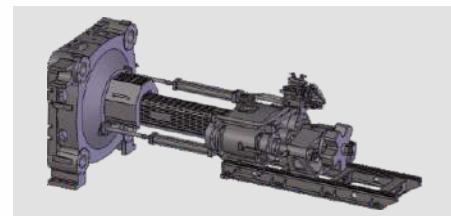
TH通用型精密伺服注塑机 550T-2800T

TH general-purpose precision servo-driven injection molding machine 130T-1400T



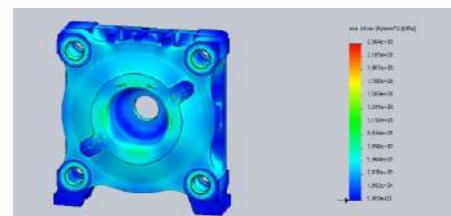
先进的油路设计，搭配欧洲专业控制器，使得机器动作稳定、制品良率高、响应速度快、控制精准、操作简单，满足多种工艺需求。

Advanced oil circuit design with European professional controller makes the machine action stable, combined with high product yield, fast response time, precise control, easy operation, and meet a variety of process requirements.



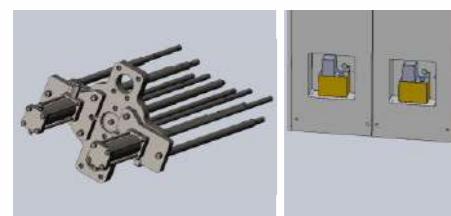
采用斜排双射移油缸及线性导轨，射胶更加精准稳定。

Diagonal double injection mold shift oil cylinder and linear guide, more accurate and stable injection.



模板优化升级，结构可靠，变形小，能有效保护设备，提高模具使用寿命。

Optimized and upgraded platen, with reliable structure and small deformation, can effectively protect the equipment and improve the service life of mold.



注重客户实际体验，包括工业设计、人机交互等细节优化。

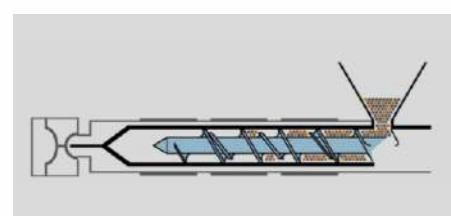
Focus on the actual customer experience, including industrial design, human-machine interaction and other details optimization.



高性能镀铬螺杆，耐用高效，适用范围广

高混色/高混炼螺杆：满足高混色制品，易换色定制螺杆：不同制品特别定制塑化组件，如PC、PA等。

High performance chrome plated screw, durable and efficient, wide range of application. High color mixing/high mixing screw: to meet the high color mixing products, easy to change color custom screw: specially customized plasticizing components for different products, such as PC, PA, etc.

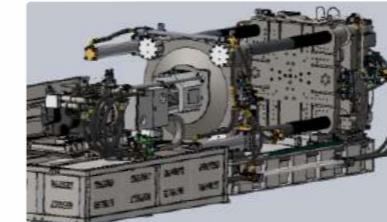


专业的塑化组件搭配，满足不同材料的塑化要求及混色性能。

Professional matching of plasticizing components to meet the plasticizing requirements and color mixing performance of different materials.

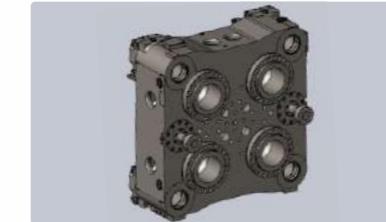
Product Features

产品特点



锁模，射台，油压，电控，外观等全面优化，综合性能大幅提升；

The clamping, injection platform, hydraulic, electric control, appearance, etc. have been fully optimized, and the overall performance has been greatly improved;



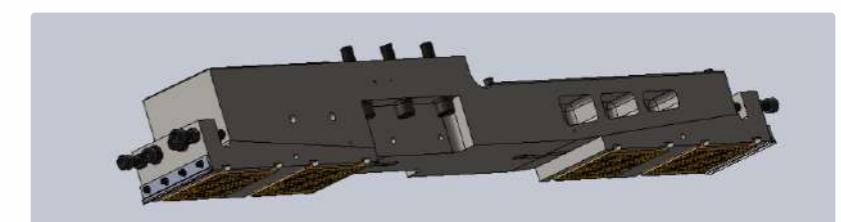
采用中心四缸锁模，锁模力均匀分布在模板中心，产品成型精度高，机器和模具的寿命大幅提升；

Adopt the center four-cylinder mold clamping, so the clamping force is evenly distributed in the center of the template. It can realize high product shaping accuracy and the improved long life of the machine and the mold;



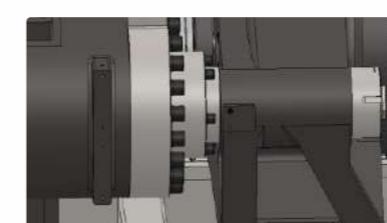
采用欧标顶针，顶针操作空间大；

Adopt European standard ejector pin, with large operation space for ejector pin;



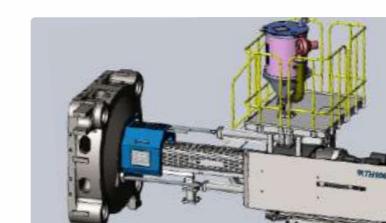
采用加长滑脚，模板稳定性好，能安装重型模具；

Adopt extended slide feet. Good stability of the mold plate can be installed with heavy molds;



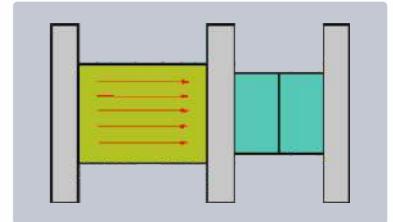
采用双向同步射胶油缸结构防止偏载损坏螺杆和线轨；

Adopt bi-directional synchronous injection cylinder structure to prevent damage of screw and line rail from deviation load;



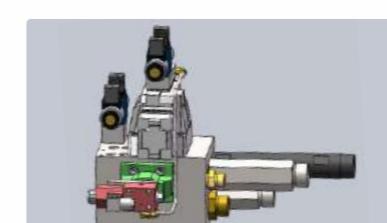
全新射台，整体框架式底座，护罩设计美观，安全稳定；

New injection unit, overall frame type base, beautiful design of shield, safe and stable;



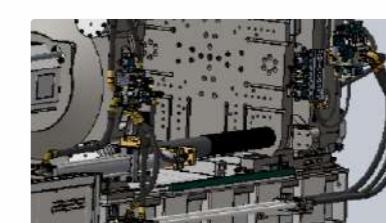
油路系统全面升级，安全，稳定，功能全，差动锁模运行周期快；

Oil circuit system fully upgraded, safe, stable, full-featured, with fast operation cycle of differential clamping;



熔胶背压采用数控比例背压，控制精准；

CNC proportional back pressure of melting, precise control;



采用独立高压管路，减少管路负载从而减少漏油风险；

Adopt independent high pressure pipeline, reduce the pipeline load and thus reduce the risk of oil leakage;



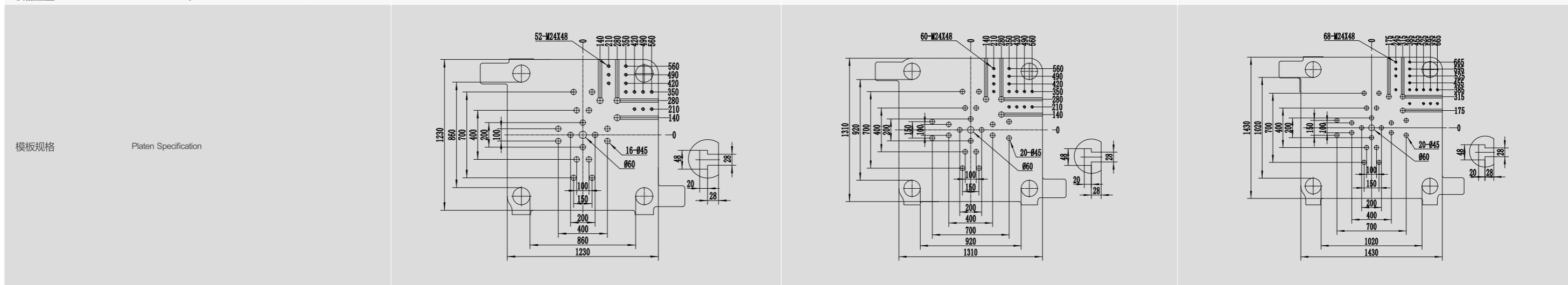
采用高端进口注塑机专业电脑控制器。

High-end injection molding machine professional computer controller.

Product Parameters

产品参数

注射部份	INJECTION UNIT	UNITS	TH550	TH650	TH800
螺杆直径	Screw Diameter	mm	80	85	90
螺杆长径比	Screw L/D Ratio	L/D	23.4	22.0	20.8
螺杆行程	Screw Stroke	mm	425	425	425
注射容积	Shot Volume	cm ³	2136	2412	2704
注射重量(PS)	Shot Weight(ps)	g	1944	2195	2460
		oz	68.4	77.3	86.6
注射压力	Injection Pressure	kgf/cm ²	1985	1758	1569
注射速率	Injection Rate	cm ³ /s	470	531	595
注射速度	Injection Speed	mm/s	94	94	94
螺杆转速	Screw Speed	rpm		157	
射咀推力	Nozzle Contact Force	t		9.1	
射咀行程	Nozzle Stroke	mm		575	
锁模部份	CLAMPING UNIT	UNITS	TH550	TH650	TH800
锁模力	Clamping Force	t	550	650	800
开模行程	Opening Stroke	mm	1700-实际模厚	1850-实际模厚	2130-实际模厚
模板尺寸(水平×垂直)	Platen size(H×V)	mm	1230×1230	1310×1310	1430×1430
导柱内距(水平×垂直)	Space Between Tie Bars(H×V)	mm	860×860	920×920	1020×1020
容模量(最薄-最厚)	Mould Thickness(Min)	mm	400	450	450
	Mould Thickness(Max)	mm	900	1000	1180
模板最大距离	Max. Daylight	mm	1700	1850	2130
顶出推力	Ejector Force	t	16.0	16.0	18.2
顶出行程	Ejector Stroke	mm	250	280	300
模具定位孔	Mould Locating Ring	mm	160	160	200
顶出点位	Ejector DI/DO	pcs	17	21	21
电力/电热	POWER/HEATING UNIT	UNITS	TH550	TH650	TH800
系统压力	System Pressure	kgf/cm ²	175	175	175
油泵电机功率	Pump Power	kw	61	68	79
电热功率	Heating Power	kw	43.4	49.6	60.4
整机电流	Total Current	A	255	266	298
温度控制段数	Number of Temp Control Zones	unit	5+1	6+1	6+1
其它	OTHERS	UNITS	TH550	TH650	TH800
机器尺寸(长x宽x高)	Machine Dimensions(LxWxH)	m	8.41×2.2×2.13	8.75×2.22×2.26	9.71×2.43×2.36
油箱容积	Oil Tank Capacity	L	700	700	950
机器重量	Machine Weight	t	18.5	23	27



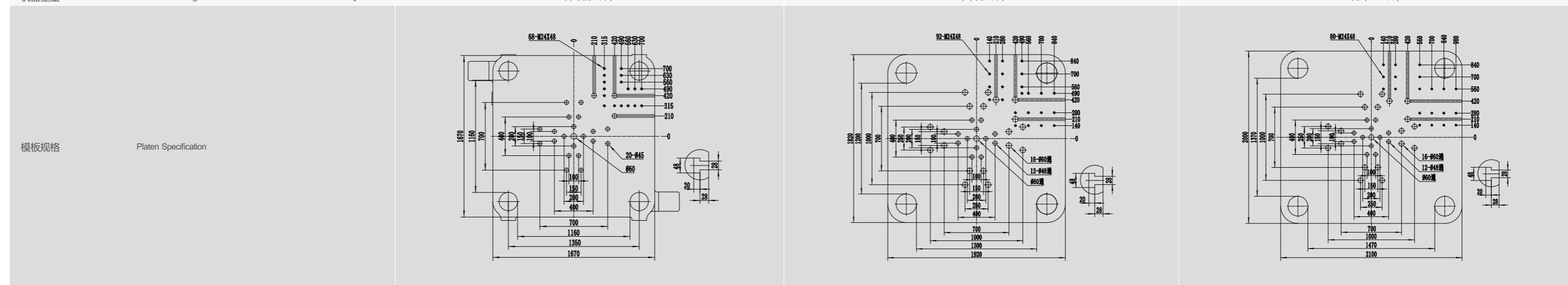
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Product Parameters

产品参数

注射部份	INJECTION UNIT	UNITS	TH1000		TH1200		TH1400
螺杆直径	Screw Diameter	mm	100	110	120	110	120
螺杆长径比	Screw L/D Ratio	L/D	24.2	22.0	20.2	24.2	22.0
螺杆行程	Screw Stroke	mm	530	530	530	530	575
注射容积	Shot Volume	cm ³	4163	5037	5994	4163	5037
注射重量(PS)	Shot Weight(ps)	g	3788	4583	5455	3788	4583
		oz	133.3	161.3	192.0	133.3	161.3
注射压力	Injection Pressure	kgf/cm ²	2197	1816	1526	2197	1816
注射速率	Injection Rate	cm ³ /s	757	916	1090	757	916
注射速度	Injection Speed	mm/s	96	96	96	96	96
螺杆转速	Screw Speed	rpm		137		137	
射咀推力	Nozzle Contact Force	t		12.8		16.0	
射咀行程	Nozzle Stroke	mm		750		800	
锁模部份	CLAMPING UNIT	UNITS	TH1000		TH1200		TH1400
锁模力	Clamping Force	t		1000		1200	
开模行程	Opening Stroke	mm		2390-实际模厚		2650-实际模厚	
模板尺寸(水平×垂直)	Platen size(H×V)	mm		1670×1670		1920×1820	
导柱内距(水平×垂直)	Space Between Tie Bars(H×V)	mm		1160×1160		1300×1200	
容模量(最薄-最厚)	Mould Thickness(Min)	mm		500		600	
	Mould Thickness(Max)	mm		1290		1400	
模板最大距离	Max. Daylight	mm		2390		2650	
顶出推力	Ejector Force	t		26.0		26.0	
顶出行程	Ejector Stroke	mm		320		350	
模具定位孔	Mould Locating Ring	mm		200		200	
顶出点位	Ejector Di/DO	pcs		21		25	
电力/电热	POWER/HEATING UNIT	UNITS	TH1000		TH1200		TH1400
系统压力	System Pressure	kgf/cm ²		175		175	
油泵电机功率	Pump Power	kw		106		106	
电热功率	Heating Power	kw		70		70	
整机电流	Total Current	A		320		320	
温度控制段数	Number of Temp Control Zones	unit		7+1		7+1	
其它	OTHERS	UNITS	TH1000		TH1200		TH1400
机器尺寸(长x宽x高)	Machine Dimensions(LxWxH)	m		10.15×2.73×3.4		10.62×2.93×3.47	
油箱容积	Oil Tank Capacity	L		1200		1200	
机器重量	Machine Weight	t		39 (29+10)		48 (38+10)	



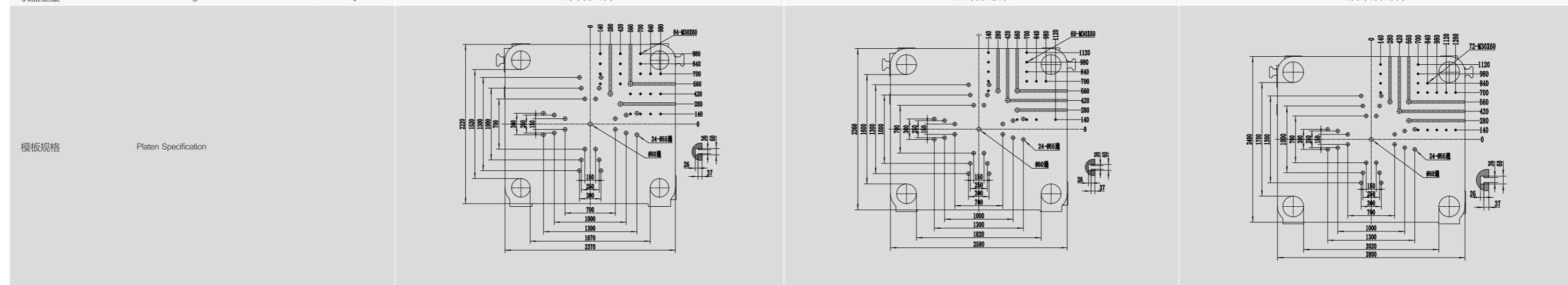
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Product Parameters

产品参数

注射部份	INJECTION UNIT	UNITS	TH1800		TH2200		TH2800	
螺杆直径	Screw Diameter	mm	130	140	150	140	150	160
螺杆长径比	Screw L/D Ratio	L/D	23.7	22.0	20.5	23.6	22.0	20.6
螺杆行程	Screw Stroke	mm	770	770	770	825	825	960
注射容积	Shot Volume	cm ³	10220	11853	13607	12700	14579	16588
注射重量(PS)	Shot Weight(ps)	g	9301	10786	12382	11557	13267	15095
		oz	328.1	380.5	436.8	407.7	468.0	532.4
注射压力	Injection Pressure	kgf/cm ²	1929	1663	1449	1942	1692	1487
注射速率	Injection Rate	cm ³ /s	1128	1308	1501	1339	1537	1748
注射速度	Injection Speed	mm/s	85	85	85	87	87	79
螺杆转速	Screw Speed	rpm		110		98		82
射咀推力	Nozzle Contact Force	t		21.0		27.5		27.5
射咀行程	Nozzle Stroke	mm		990		1100		1200
锁模部份	CLAMPING UNIT	UNITS	TH1800		TH2200		TH2800	
锁模力	Clamping Force	t		1800		2200		2800
开模行程	Opening Stroke	mm		3350-实际模厚		3600-实际模厚		3900-实际模厚
模板尺寸(水平×垂直)	Platen size(H×V)	mm		2370×2220		2580×2360		2800×2480
导柱内距(水平×垂直)	Space Between Tie Bars(H×V)	mm		1670×1520		1820×1600		2020×1700
容模量(最薄-最厚)	Mould Thickness(Min)	mm		750		800		900
	Mould Thickness(Max)	mm		1700		1800		2000
模板最大距离	Max. Daylight	mm		3350		3600		3900
顶出推力	Ejector Force	t		46.0		46.0		52.0
顶出行程	Ejector Stroke	mm		450		450		500
模具定位孔	Mould Locating Ring	mm		250		250		250
顶出点位	Ejector DI/DO	pcs		25		25		25
电力/电热	POWER/HEATING UNIT	UNITS	TH1800		TH2200		TH2800	
系统压力	System Pressure	kgf/cm ²		175		175		175
油泵电机功率	Pump Power	kw		135		167		205
电热功率	Heating Power	kw		90		100		140
整机电流	Total Current	A		405		484		620
温度控制段数	Number of Temp Control Zones	unit		9+1		9+1		10+1
其它	OTHERS	UNITS	TH1800		TH2200		TH2800	
机器尺寸(长x宽x高)	Machine Dimensions(LxWxH)	m		13.7×3.74×3.9		15×3.95×4		16.3×4.17×4.3
油箱容积	Oil Tank Capacity	L		1850		2100		2700
机器重量	Machine Weight	t		78 (60+18)		114 (90+24)		130 (100+30)

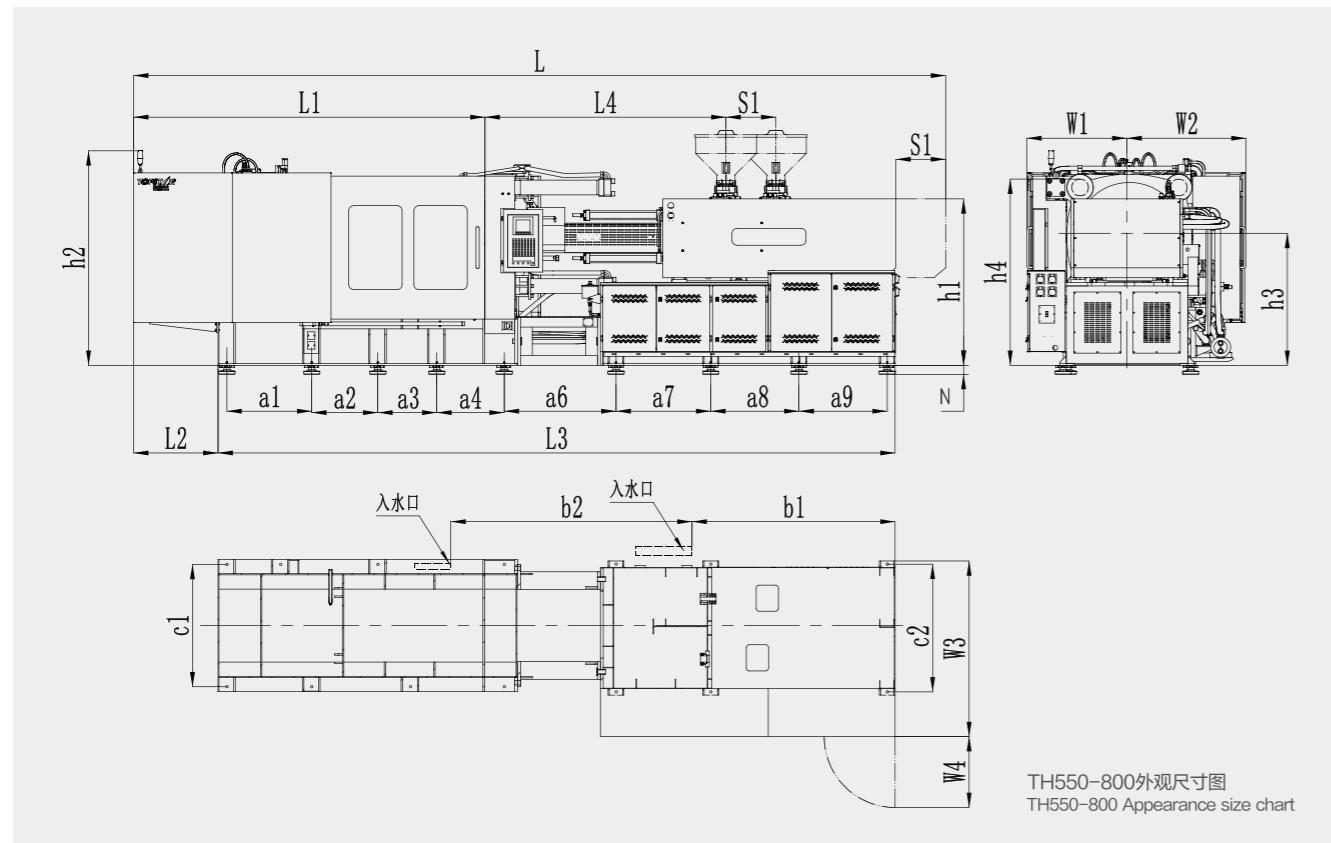


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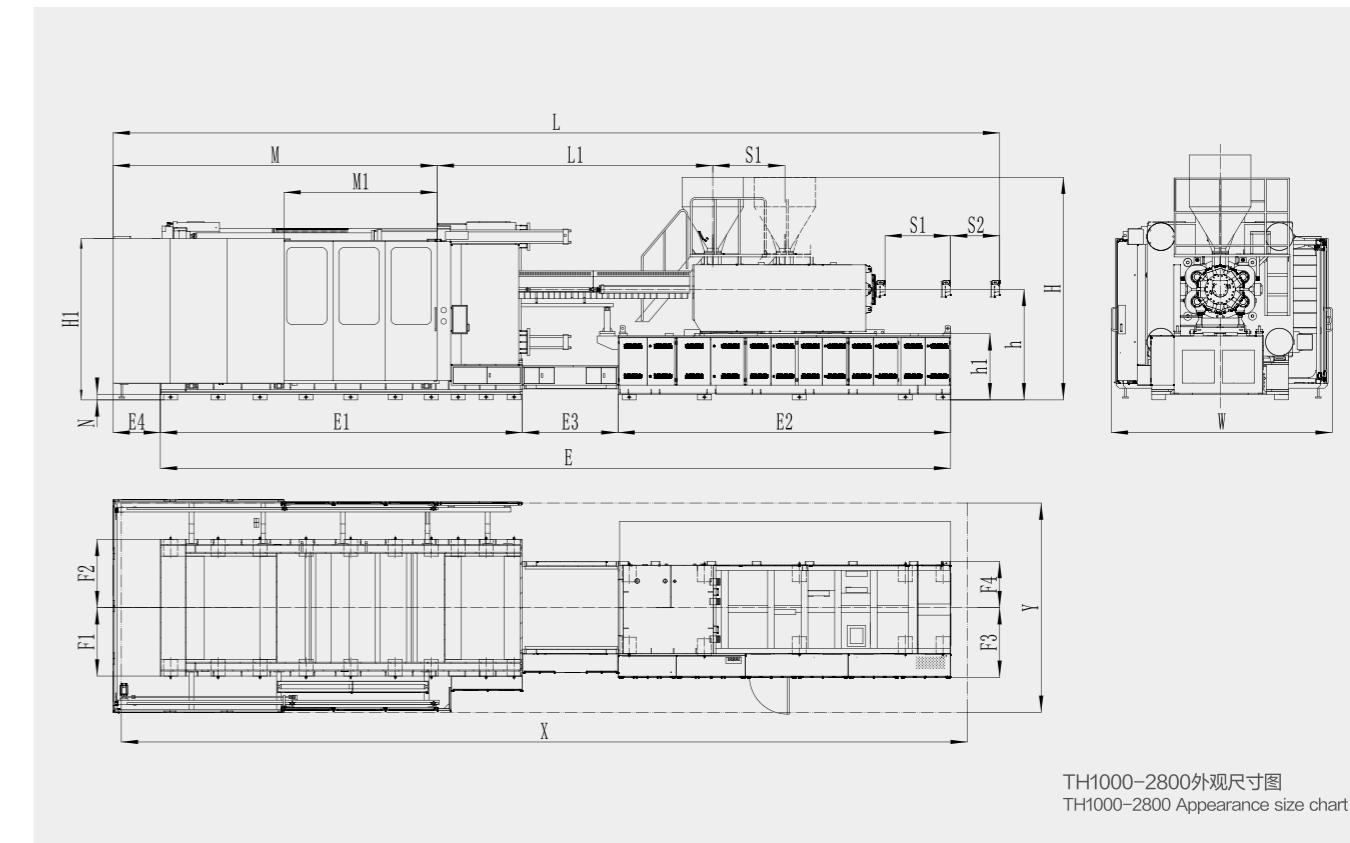
Product Specification

产品规格



机型 Model	TH550	TH650	TH800
a1	935	780	865
a2	935	780	865
a3	0	780	865
a4	935	700	865
a6	1220	1342	1185
a7	960	960	1200
a8	0	0	1000
a9	1790	1788	1000
b1	1933	1770	1900
b2	2478	3050	3045
C1	1205	1280	1390
C2	1295	1295	1480
W1	1040	1016	1140
N	94	94	94

机型 Model	TH550	TH650	TH800
W2	1181	1206	1256
W3	1687	1687	1930
W4	616	616	680
h1	1688	1723	1798
h2	2175	2125	2395
h3	1303	1343	1433
h4	1873	1948	2103
S1	575	610	650
L	8413	8753	9708
L1	3560	3765	4166
L2	860	860	891
L3	6940	7295	8010
L4	2164	2294	2528
nXØd	14XØ27	16XØ27	18XØ27



机型 Model	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
L	10155	10620	11471	13713	14984	16266
L1	2783	2819	3017	3576	3795	4386
H	3390	3445	3680	3905	4008	4260
W	2730	2930	3250	3737	3947	4172
E	8835	9335	10125	12005	12505	13920
E1	4035	4535	4935	5590	6090	6600
E2	4035	4035	4425	5545	5545	6540
E3	765	765	765	870	870	870
E4	975	915	980	1512	1508	1317
H1	2445	2500	2514	2352	2352	2352
h	1649	1728	1750	2074	2074	2154
h1	1080	1160	1200	1272	1272	1353

机型 Model	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
M	4515	4956	5370	6412	6813	7219
M1	1962	2251	2636	2860	3087	3327
S1	750	800	840	990	1100	1200
S2	530	530	575	770	825	960
F1	830	960	1000	1165	1255	1365
F2	830	960	1000	1165	1255	1365
F3	977	977	1000	1040	1040	1040
F4	1320	1320	1350	1440	1440	1440
X	9950	9670	10500	13000	13500	14900
Y	2730	2930	3200	3300	3500	3700
N	100	100	100	100	100	100

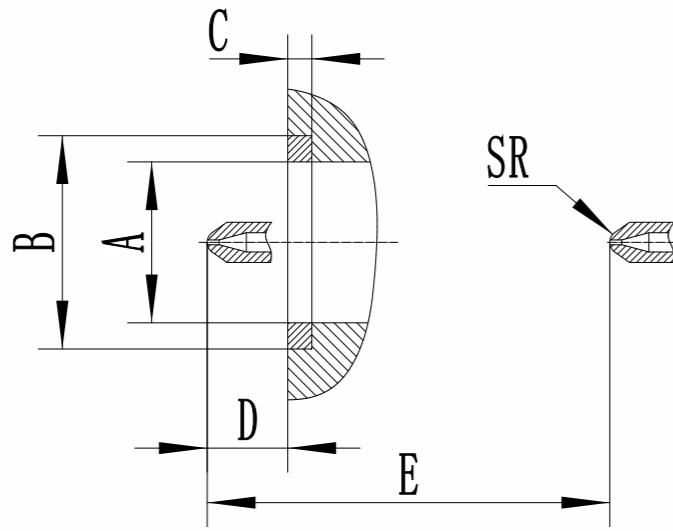
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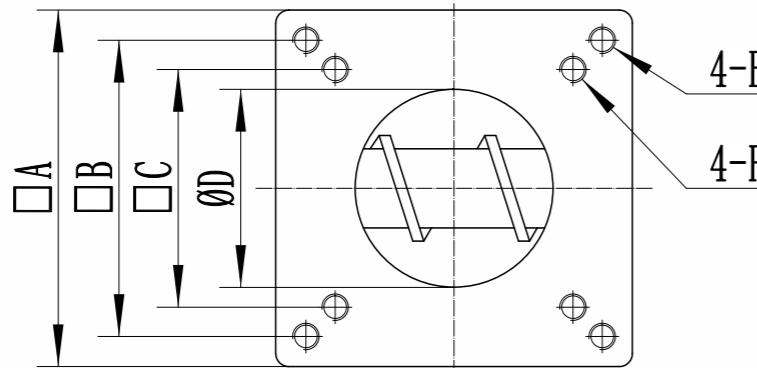
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定位圈及射咀位置尺寸
Locating ring & nozzle position size



机型 Model	TH550	TH650	TH800	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
A	Ø160	Ø160	Ø200	Ø200	Ø200	Ø200	Ø250	Ø250	Ø250
B	—	—	Ø250	Ø250	Ø250	Ø250	Ø315	Ø315	Ø315
C	—	—	20	20	20	20	30	30	30
D	100	100	100	100	100	100	100	100	100
E	575	610	650	750	800	840	990	1100	1200
SR	20	20	20	20	20	20	20	20	20

加料口尺寸
Material feeding gate size



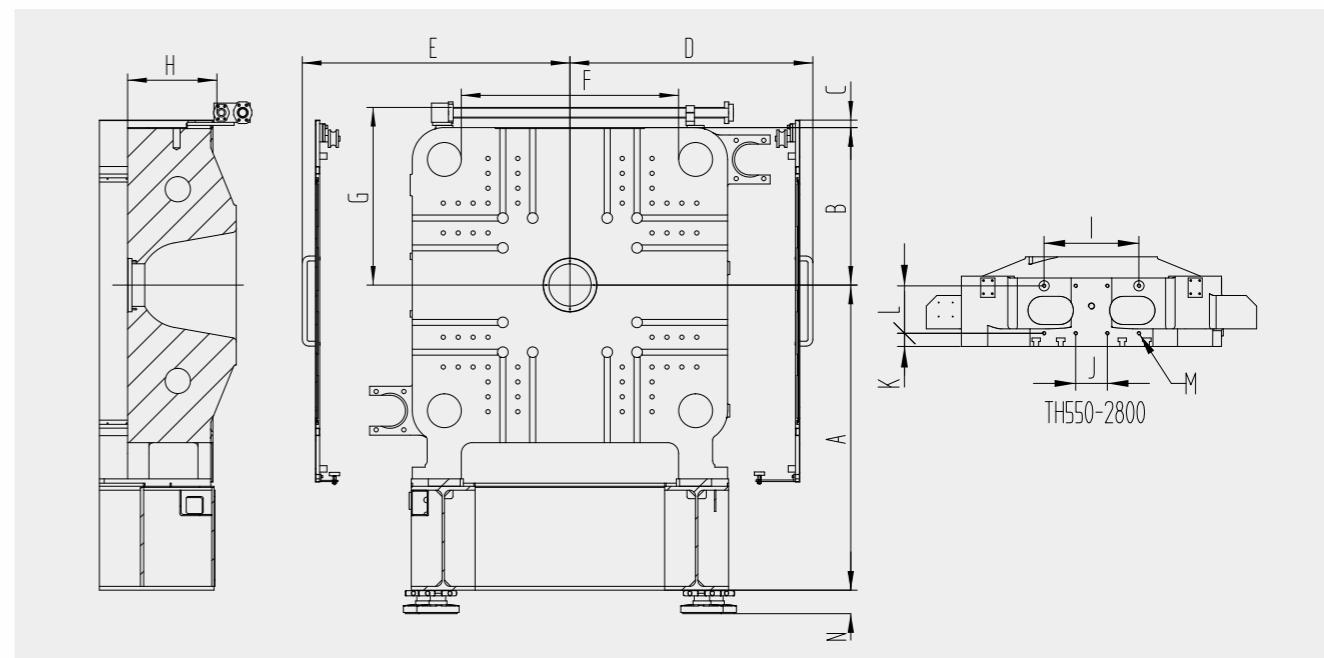
机型 Model	TH550	TH650	TH800	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
A	180	180	180	180	180	232	270	270	270
B	140	140	140	140	140	200	200	200	200
C	115	115	115	115	115	140	160	160	160
D	114	114	114	125	125	160	175	175	175
E	M12	M12	M12	M12	M12	M12	M16	M16	M16
F	M10	M10	M10	M10	M10	M10	M10	M10	M10

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Installation Dimensions

产品安装尺寸



机械手安装接口尺寸 (注: N为避震脚参考尺寸, 以现场装机调试高度为准)

Robot assemble connecting size (N is the reference size of the shock foot, subject to the height of the installed machine debugging on site)

机型 Model	TH550	TH650	TH800	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
A	1303	1343	1433	1495	1473	1615	1974	1974	2054
B	630	665	735	765	810	875	1105	1175	1255
C	-15	-109	-30	-50	-112	-25	-827	-897	-1056
D	1040	1016	1140	1435	1585	1600	1680	1785	1915
E	1181	1206	1256	1400	1480	1650	2075	2162	2292
F	860	920	1020	1160	1300	1470	1670	1820	2020
G	725	766	835	905	955	1000	—	—	—
H	318	341	419	490	550	600	—	—	—
I	540	540	540	540	660	660	900	900	900
J	180	180	180	180	220	220	300	300	300
K	75	75	75	75	75	75	100	100	100
L	200	200	270	290	320	360	480	480	480
M	8-M20	8-M20	8-M20	8-M24	8-M24	8-M24	8-M30	8-M30	8-M30
N	94	94	94	100	100	100	100	100	100

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电气部分 Electrical Part		TH550	TH650	TH800	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
KEBA	KEBA high performance controller									
OPC	MES	OPC port access to MES system								
()	Electric rotary demoulding (excluding motor)									
	Low pressure mold protect function									
	Unscrew device									
	Secondary clamping function									
220V /3PH /60HZ	Voltage changed to 220V /3PH /60HZ									
440V /3PH /50HZ	Voltage changed to 440V /3PH /50HZ									
	Installation of three- color alarm light									
220V /10A	One set of two- phase 220V /10A socket									
220V /10A	Two sets of two- phase 220V /10A sockets									
32A	Four sets of three- phase five- hole 32A sockets				—	—	—	—	—	—
32A	Five sets of three- phase five- hole 32A sockets	—	—	—						
16A	Adding three- phase five- hole 16A socket									
32A	Adding three- phase five- hole 32A socket									
	Add mould for return confirmation									
	Independent nozzle control									
	Emergency stop button of rear door									
	Speed test device for glue melting									
8.4	Equip 8.4" display screen									
10	Equip 10" display screen									
12	12" color touch screen panel operation									
	Installation of watt hour meter									
	Solid state relay for heating									
()	Hot runner interface (connected to computer)									
	Interface of gas assisted injection device									
	Add two sets of mould for temperature control									
	Clamping force detection and display									
	Data lock installation for computer operation panel									
	Sequential glue injection interface									
()	Sequential injection (with sequence valve)									
67	European standard 67									
12	European standard 12									
Support two languages, Chinese and English, other languages can be extended										

钣金部分 Metal Plate	TH550	TH650	TH800	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
降低安全门高度 Reduce the height of safety door	○	○	○	○	○	○	○	○	○
电动门 Electric door	○	○	○	●	●	●	●	●	●
加装冷却流量计 Adding cooling flow meter	○	○	○	○	○	○	○	○	○
固定运水架 (8 进 8 出) 配 D12 快插接头 Manifold 8 in 8 out with D12 Adapter	○	○	○	○	○	○	○	○	○
固定运水架 (12 进 12 出) 配 D12 快插接头 Manifold 12 in 12 out with D12 Adapter	●	●	●	○	○	○	○	○	○
两组运水架 (8 进 8 出) 配 D12 快插接头 2 Sets of Manifolds 8 in 8 out with D12 Adapter	○	○	○	●	●	●	●	●	●

其他部分 Other Part	TH550	TH650	TH800	TH1000	TH1200	TH1400	TH1800	TH2200	TH2800
更改钣金颜色(A/A2以外颜色) Change metal plate color (color other than A/A2)	○	○	○	○	○	○	○	○	○
更改射台颜色(A/A2以外颜色) Change the color of the injection platform(color other than A/A2)	○	○	○	○	○	○	○	○	○
更改锁模颜色(A/A2以外颜色) Change mould clamping color (color other than A/A2)	○	○	○	○	○	○	○	○	○
更改机架颜色(A/A2以外颜色) Change rack color (color other than A/A2)	○	○	○	○	○	○	○	○	○

备注: 标准配置 “●” 和备选配置 “○” Remark: Standard “●” Optional “○”

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After-Sale Service

售后服务



快速响应

快速响应客户的需求，收集客户的现场信息并记录故障，给出保养合理化建议；

Fast Response

Quickly respond to customer needs, collect customer site information and record the failure, give reasonable maintenance Suggestions;



快速到达

快速到达客户现场，进行设备维修；

Fast Arrival

Quickly arrive at customer site for equipment maintenance;



快速处理

快速处理，帮助客户第一时间将设备调整到最佳状态；

Fast Processing

Quickly processing to help customers adjust the equipment to the best state in the first time;



快速验收

快速完成服务项目验收。

Fast Acceptance

Quickly complete the service project acceptance.

Sincerely Appreciate

衷心感谢

超过15000家客户见证并长期支持

Over 15000 customers have witnessed TOPSTAR growth and long supports

