Guangdong Topstar Technology Co., Ltd.

ADD : No.2 Chuangxin Road, Datanglang, Dalingshan Town, Dongguan City, Guangdong Province.

TEL: 0086 769 8305 0999

FAX: 0086 769 8584 5562

Topstar Intelligent Equipment Headquarters Base

ADD: No. 39, Lianhuan Road, Lianping Village, Dalingshan Town, Dongguan City, Guangdong Province

East China R&D and Manufacturing Base

ADD: No.1999 Songjia Road, Guoxiang Street, Wuzhong Economic Development Zone, Suzhou City, Jiangsu Province

TEL: 0086-0512-5288 9310

MOB: 185 0156 0757

Topstar (Vietnam) Technology Co.,Ltd.

ADD: No. 48 Kinh Duong Vuong Street, Vu Ninh Ward, Bac Ninh City, Bac Ninh Province

TEL：0084-346-860 156

MOB: 186 0209 6307

Topstar Mexico Technology S.A DE C.V.

ADD: calle cantu numero 9, interior 103, colonia anzures, delegacion miguel hidalgo, Ciudad de Mexico, Mexico, cp 11590

TEL：0052-8121728864

haiwai@topstarltd.com

www.topstarmachine.com

TSDSC2025-B

TOPSTAR 拓斯达

TMII SERIES

INJECTION MOLDING MACHINE

Toggle Hydraulic Servo Driven

TMII

股票代码 Stock Code 300607

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

Introduction of Injection Molding Machine Business Unit

Make injection molding manufacturing more efficient, make industrial manufacturing better

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.

R&D Concept

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

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.

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.

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.

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

Application Industries

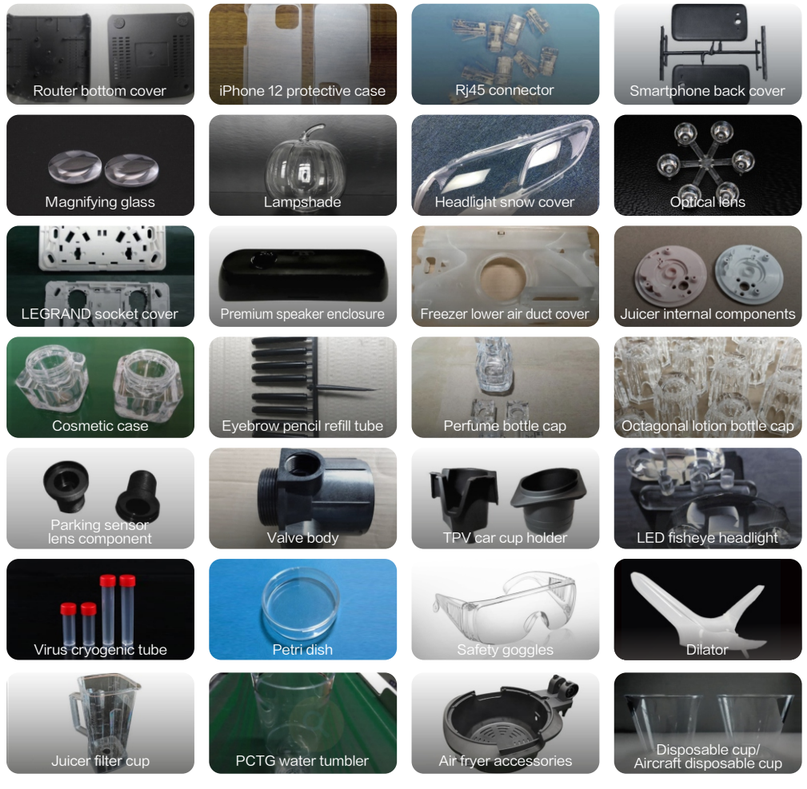
The injection molding machine has the ability to mold dense plastic products with complex appearance, precise dimensions or metal inserts in one go.

Product Features

- Strong engine, efficiency increase
- Configuration promoted, stable to use
- Optimized design, energy saving and reliable
- Highly integrated, accurate and efficient

Application Industries

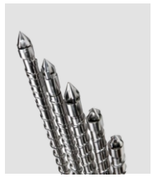
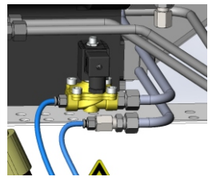
- Electronics
- Optoelectronics
- 3C home appliances
- Cosmetics
- Auto Parts
- Medical products
- Containers



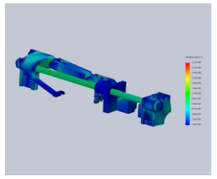
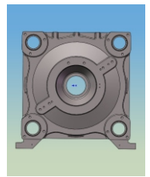
Product Accessories

TM II general-purpose precision servo-driven injection molding machine
90Ton-470Ton

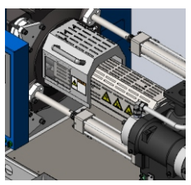
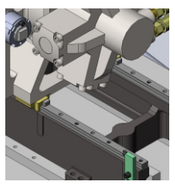

Standard KEBA controller, PHASE motor, DELTA drive, with self-developed control program, more precise production control.

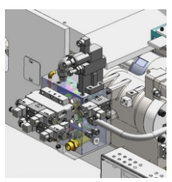
Standard configuration of plating screw and temperature control of the offload, higher production efficiency, and wider application range of rubber materials.

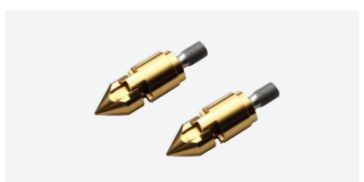
Optimized clamping design, higher strength and more stable.

Diagonal double carriage cylinders and linear guide, more accurate and stable injection.




Pre-plasticizing adopts proportional back pressure control, easy to operate. Multi-stage back pressure setting can be realized, with higher precision and improved plasticization quality.



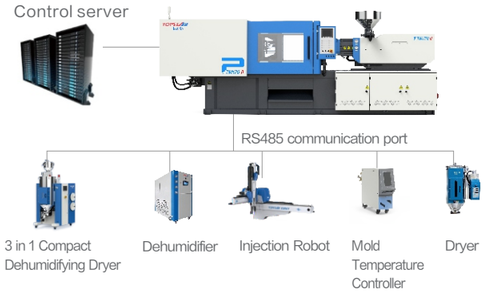
Precision PVD alloy screw head set, adapt to a wider range of plasticizing requirements.

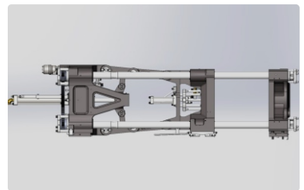
Product Features

Automatic compensation function of mold opening position, cooperate with manipulator to grasp accurately.

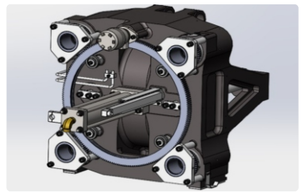
拓斯达注塑机和辅机系统高度集成，操作便捷高效。

TOPSTAR injection molding machine and auxiliary system are highly integrated, convenient and efficient operation.

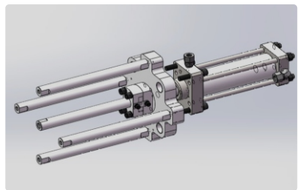




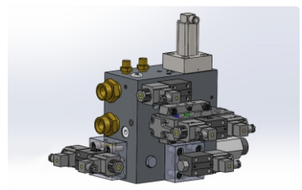
The new inclined row machine toggle layout can realize super long stroke mold opening，themold opening position accuracy is less than ± 1mm, and the mold movement is fast and stable;



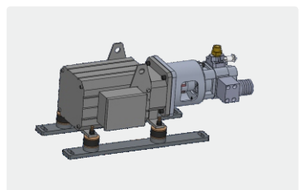
New mold adjustment mechanism, with one-key function available to realize automatic and accurate mold adjustment;



The thrust of thimble is increased by 20%, which is conducive to demoulding of connector and plug-in products, and has wider applicability;



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



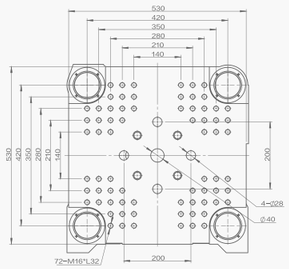
ervo power increased by 20%, injection speed increased by 20%, plasticizing speed increased by 10%, and compreh-ensive efficiency increased by 15%;

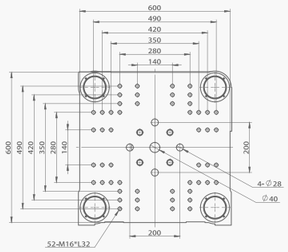
Secondary development of control system and humanized design of computer operation interface。

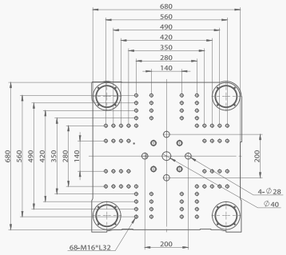
Product Parameters

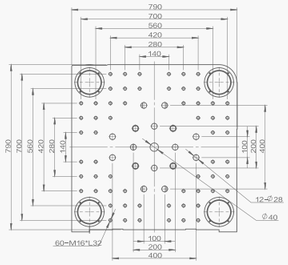
	INJECTION UNIT	UNITS	TM90 II			TM130 II			TM170 II			TM220 II		
	Screw Diameter	mm	32	36	40	36	40	45	40	45	50	45	50	55
	Screw L/D Ratio	L/D	22.5	20.0	18.0	22.2	20.0	17.8	22.5	20.0	18.0	22.2	20.0	18.2
	Screw Stroke	mm	150	150	150	170	170	170	200	200	200	210	210	210
	Shot Volume	cm^3	121	153	188	173	214	270	251	318	393	334	412	499
	Shot Weight(ps)	g	110	139	172	157	194	246	229	289	357	304	375	454
		oz	3.9	4.9	6.0	5.5	6.8	8.7	8.1	10.2	12.6	10.7	13.2	16.0
★	Injection Pressure	kgf/cm^2	2393	1890	1531	2301	1864	1473	2362	1866	1511	2299	1862	1539
★	Injection Rate	cm^3/s	97	122	151	122	151	191	151	191	236	191	236	285
★	Injection Speed	mm/s	120	120	120	120	120	120	120	120	120	120	120	120
★	Screw Speed	rpm		260			260			230			200	
	Nozzle Contact Force	t		4.2			4.2			6.2			6.2	
	Nozzle Stroke	mm		260			260			280			340	
	CLAMPING UNIT	**UNITS**	**TM90 II**			**TM130 II**			**TM170 II**			**TM220 II**		
	Clamping Force	t		90			130			170			220	
★	Opening Stroke	mm		330			360			430			490	
	Platen size(H×V)	mm		530×530			600×600			680×680			790×790	
	Space Between Tie Bars(H×V)	mm		360×360			410×410			470×470			530×530	
★	Mould Thickness (Min)	mm		125			150			160			180	
★	Mould Thickness (Max)	mm		400			460			540			560	
	Max. Daylight	mm		730			820			970			1050	
★	Ejector Force	t		5.5			5.5			5.5			6.7	
	Ejector Stroke	mm		120			120			140			160	
	Locating Ring	mm		100			100			125			125	
	POWER/HEATING UNIT	**UNITS**	**TM90 II**			**TM130 II**			**TM170 II**			**TM220 II**		
	System Pressure	kgf/cm^2	175			175			175			175		
★	Pump Power	kw	13			18			22			26		
	Heating Power	kw	7			9.7			10.2			13.6		
	Number of Temp Control Zones		3+1			3+1			3+1			3+1		
	OTHERS	**UNITS**	**TM90 II**			**TM130 II**			**TM170 II**			**TM220 II**		
	Machine Dimensions(LxWxH)	m	4.46×1.24×1.84			4.74×1.3×1.9			5.3×1.38×1.97			5.9×1.54×2.12		
	Oil Tank Capacity	L	150			150			200			240		
	Machine Weight	t	3			3.7			4.5			6.7		

Platen dimensions

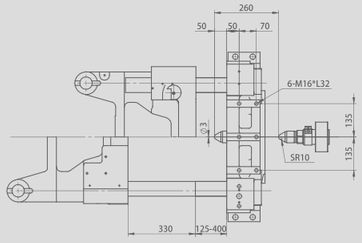


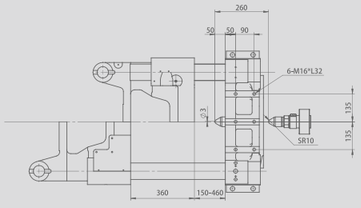


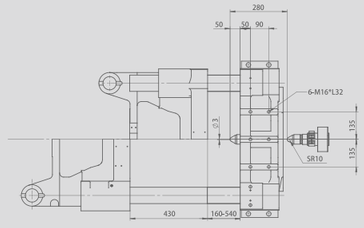


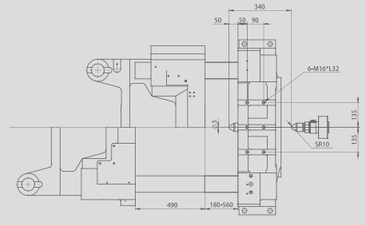


Platen dimensions







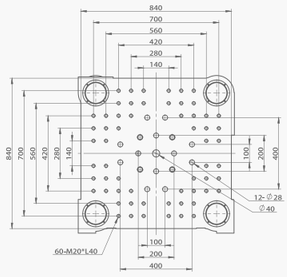


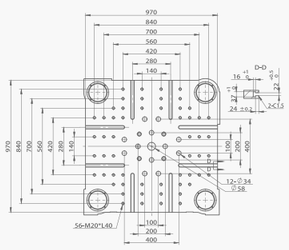
Due to the continuous development of technology, improvement and update of design, the above specifications are subject

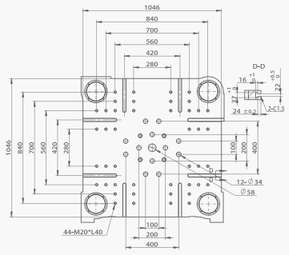
Product Parameters

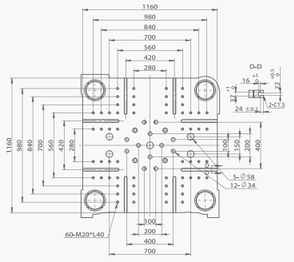
	INJECTION UNIT	UNITS	TM260 II			TM330 II			TM400 II			TM470 II		
	Screw Diameter	mm	50	55	60	60	65	70	65	70	75	75	80	85
	Screw L/D Ratio	L/D	22.0	20.0	18.3	21.7	20.0	18.6	21.5	20.0	18.7	21.3	20.0	18.8
	Screw Stroke	mm	240	240	240	280	280	280	320	320	320	360	360	360
	Shot Volume	cm^3	471	570	679	792	929	1078	1062	1232	1414	1590	1810	2043
	Shot Weight(ps)	g	429	519	618	720	846	981	966	1121	1286	1447	1647	1859
		oz	15.1	18.3	21.7	25.4	29.8	34.5	34.0	39.4	45.3	50.9	58.0	65.4
★	Injection Pressure	kgf/cm^2	2257	1865	1567	2188	1864	1607	2085	1798	1566	1984	1744	1545
★	Injection Rate	cm^3/s	236	285	339	331	388	450	388	450	517	468	533	602
★	Injection Speed	mm/s	120	120	120	117	117	117	117	117	117	106	106	106
★	Screw Speed	rpm		200			200			180			180	
	Nozzle Contact Force	t		6.2			9.1			9.1			9.1	
	Nozzle Stroke	mm		340			450			450			450	
	CLAMPING UNIT	UNITS	TM260 II			TM330 II			TM400 II			TM470 II		
	Clamping Force	t		260			330			400			470	
★	Opening Stroke	mm		560			660			720			800	
	Platen size(H×V)	mm		840×840			970×970			1046×1046			1160×1160	
	Space Between Tie Bars(H×V)	mm		580×580			680×680			730×730			820×820	
★	Mould Thickness (Min)	mm		190			225			250			300	
★	Mould Thickness (Max)	mm		600			700			750			870	
	Max. Daylight	mm		1160			1360			1470			1670	
★	Ejector Force	t		6.7			6.7			11.0			11.0	
	Ejector Stroke	mm		160			160			220			220	
	Locating Ring	mm		125			125			160			160	
	POWER/HEATING UNIT	UNITS	TM260 II			TM330 II			TM400 II			TM470 II		
	System Pressure	kgf/cm^2		175			175			175			175	
★	Pump Power	kw		34			45			52			52	
	Heating Power	kw		17.3			21.3			23.4			31.6	
	Number of Temp Control Zones			3+1			4+1			5+1			5+1	
	OTHERS	UNITS	TM260 II			TM330 II			TM400 II			TM470 II		
	Machine Dimensions(LxWxH)	m		6.21×1.6×2.2			7.29×1.86×2.31			7.92×1.92×2.24			8.65×1.93×2.29	
	Oil Tank Capacity	L		300			360			420			550	
	Machine Weight	t		7.5			11.1			14.8			17.5	

Platen dimensions

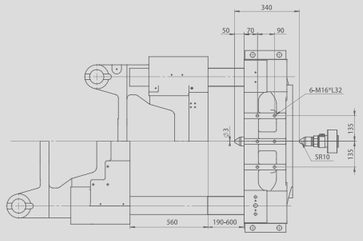


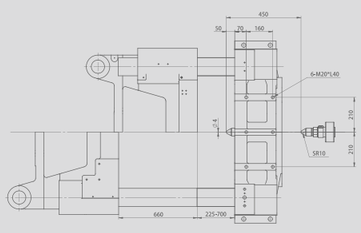


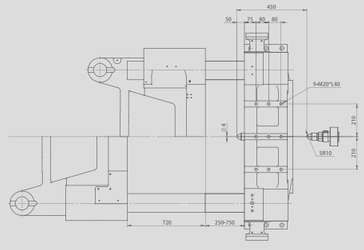


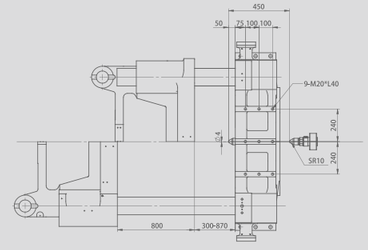


Platen dimensions



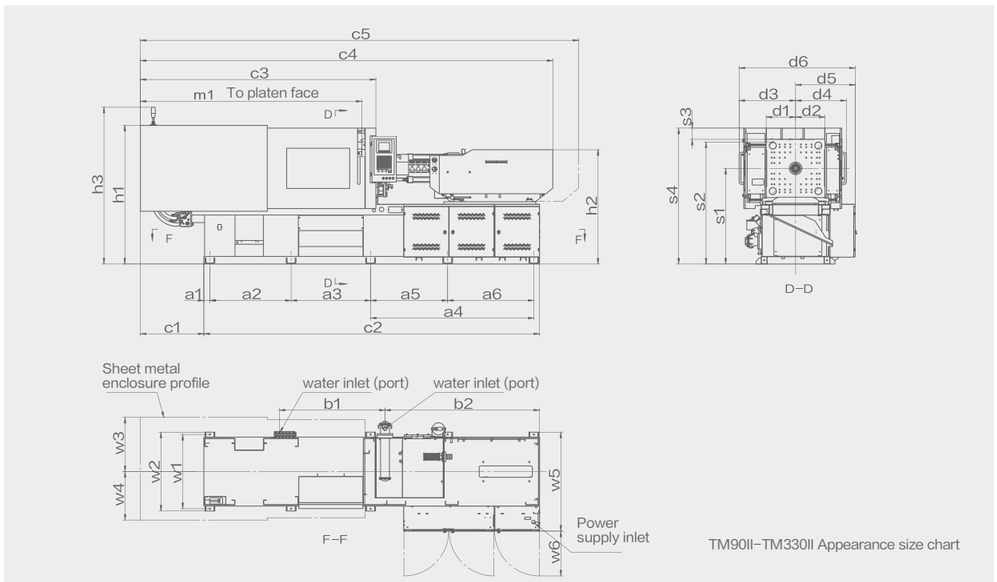






Due to the continuous development of technology, improvement and update of design, the above specifications are subject

Product Specification

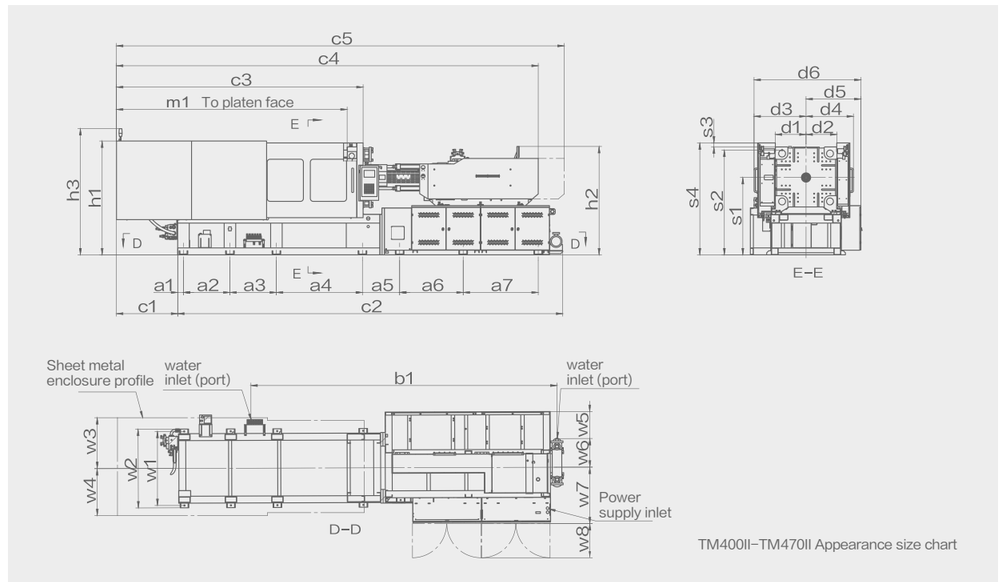


TM90II–TM330II Appearance size chart

Appearance size

	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II
a1	80	80	80	65	65	110
a2	791	836	997	1190	1240	1470
a3	784	894	1013	1060	1180	1250
a4	1910	1935	2020	—	—	—
a5	—	—	—	1070	1160	1493
a6	—	—	—	1135	1135	1342
b1	1603	1284	1285	1565	1410	2881
b2	1343	1825	1955	2085	2180	1667
c1	674	714	775	836	885	1027
c2	3640	3820	4200	4590	4850	5760
c3	2375	2581	2914	3202.5	3436	3868
c4	4196	4478	5018	5555	5866	6839
c5	4456	4738	5298	5895	6206	7289
d1	272	307	347	397	430	509
d2	272	307	347	397	430	495
d3	586.5	612	651.5	750	783	866
d4	541.5	577	616.5	675	708	802
d5	655	690	730	794	824	995
d6	1241.5	1302	1381.5	1544	1607	1861

	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II
h1	1600	1660	1735	1882	1962	2071
h2	1395	1425	1475	1540	1596	1711
h3	1840.5	1900.5	1975.5	2122.5	2202.5	2311.5
w1	720	790	870	998	1058	1210
w2	780	850	930	1058	1118	1290
w3	557	582	590	719	753	831
w4	512	547	555	643.5	679	788
w5	1045	1045	1195	1323	1313	1640
w6	590	590	590	590	590	631
s1	1160	1190	1230	1295	1335	1390
s2	1400	1465	1545	1650	1722	1842
s3	133	133	128	154.5	160	148
s4	1565	1625	1572	1841.5	1992	2037
m1	2225	2409	2741	3041	3240	3707



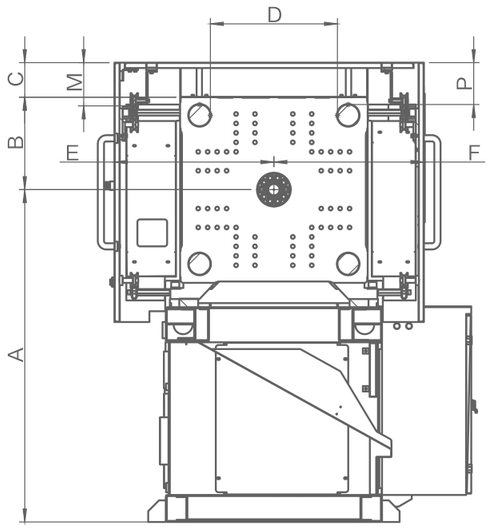
TM400II–TM470II Appearance size chart

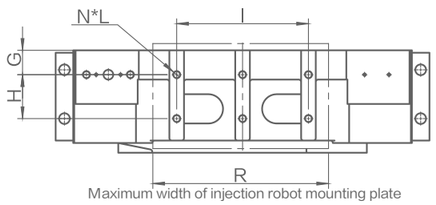
Appearance size

	TM400 II	TM470 II
a1	100	105
a2	900	980
a3	900	980
a4	1450	1550
a5	645	730
a6	1100	1100
a7	1300	1300
b1	5305	5547
c1	1080	1169
c2	6820	7180
c3	4442	4877
c4	7465	8197
c5	7915	8647
d1	540	600
d2	545	600
d3	965	980
d4	811	880
d5	950	950
d6	1915	1930

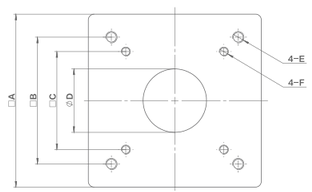
	TM400 II	TM470 II
h1	2012	2067
h2	1948	1972
h3	2236	2291
w1	1284	1410
w2	1364	1490
w3	896	966
w4	797	867
w5	456	447
w6	509	518
w7	950	950
w8	590	590
s1	1380	1380
s2	1865	1922
s3	59	54
s4	1979	2034
m1	4165	4580

Installation Dimensions





Maximum width of injection robot mounting plate



Installation dimensions of hopper throat

Robot assemble connecting size (Size A without level pad)

机型	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
A	1160	1190	1230	1295	1335	1380	1380	1380
B	272	302	342	397	427	497	537	597
C	133	133	128	154.5	160	150	62	57
D	360	410	470	530	580	680	730	820
E	525	550	590	686.5	722	804	849	919
F	480	515	555	611.5	647	751	749	819
G	50	50	50	50	70	70	75	75
H	70	90	90	90	90	160	80+80	100+100
I	270	270	270	270	270	420	420	480
L	M16	M16	M16	M16	M16	M20	M20	M20
M	160	160	160	197	197	222	117	117
N	6	6	6	6	6	6	9	9
P	165	160	155	191.5	202	197	114	114
R	300	340	390	440	480	580	620	700

Installation size of injection molding machine filling port

机型	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
A	150	150	150	150	150	160	160	160
B	110	110	110	110	110	110	110	110
C	85	85	85	85	85	—	—	—
D	55	55	55	55	55	75	75	75
E	M10	M10	M10	M10	M10	M10	M10	M10
F	M8	M8	M8	M8	M8	—	—	—

Configuration Table of Standard Series

Mold Clamping	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
Increase mold capacity by 50/100/150mm	○	○	○	○	○	○	○	○
Bushes for Toggle	●	●	●	●	●	●	●	●
Oiled bushes for tie bars	●	●	●	●	●	●	●	●
Hydraulic gear pump for mold adjust	●	●	●	●	●	●	●	●
Suspended formwork	○	○	○	○	○	○	○	○
Grease lubrication (with self-lubricating bearing)	○	○	○	○	○	○	○	○
Installation of forced reset device for mold	●	●	●	●	●	●	●	●
Installation of heat insulation board for mold	○	○	○	○	○	○	○	○
Bow-shaped mold clamp	●	●	●	●	●	●	●	●
Installation of mechanical safety lock	○	○	○	○	○	○	○	○
Installation of steel belt for mold locking guide rail	●	●	●	●	●	●	●	●
Magnetic template	○	○	○	○	○	○	○	○
Add T-groove + code mould hole for the template	○	○	○	○	○	●	●	●
T-groove added for formwork	○	○	○	○	○	○	○	○
Finished slide	●	●	●	●	●	○	○	○

Glue Injectiont	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
Lengthen nozzle by 50/100/150/200mm	○	○	○	○	○	○	○	○
Injection nozzle assembly of filter screen	○	○	○	○	○	○	○	○
Self-locking injection nozzle of spring (made in China)	○	○	○	○	○	○	○	○
Mixing screw with assorted color	○	○	○	○	○	○	○	○
PMMA plasticizing module	○	○	○	○	○	○	○	○
PC plasticizing module	○	○	○	○	○	○	○	○
Flexible PVC plasticizing module	○	○	○	○	○	○	○	○
Upgrade glue melting motor by a grade	○	○	○	○	○	○	○	○
Degrade glue injection mechanism by a/two grade	○	○	○	○	○	○	○	○
Install manual lubrication pump for injection platform	○	○	○	○	○	○	○	○
Tenperature detector in material feeding hole	●	●	●	●	●	●	●	●
Linear guiders for injection&carriage movement	●	●	●	●	●	●	●	●
Double-injection shift cylinder	●	●	●	●	●	●	●	●
Totally enclosed heat insulation cover	●	●	●	●	●	●	●	●
Installation of air cooling device	○	○	○	○	○	○	○	○
Nozzle shield	●	●	●	●	●	●	●	●
Carriage covered with anti-slip steel mat	●	●	●	●	●	●	●	●
With Hopper	○	○	○	○	○	○	○	○
Sliding device of hopper with bearing	○	○	○	○	○	○	○	○
Installation of magnetic frame base (with magnetic frame)	○	○	○	○	○	○	○	○
Enlarged hopper	○	○	○	○	○	○	○	○
Embedded probe nozzle	○	○	○	○	○	○	○	○
Add solenoid water valve for cold water ring	●	●	●	●	●	●	●	●

Due to the continuous development of technology, improvement and update of design, the above specifications are subject

Configuration Table of Standard Series

Metal Plate	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
Widened door (100mm on both sides)	○	○	○	○	○	○	○	○
Reduce the height of safety door	○	○	○	○	○	○	○	○
Synchronous with electric door	○	○	○	○	○	○	○	○
Installation of top sliding cover plate in mold clamping area	●	●	●	●	●	○	○	○
Installation of a set of 6-tube cooling flow meters	○	○	○	○	○	○	○	○
Water carrier (in and out) with D10 quick connector	○	○	○	○	○	○	○	○
6 in 6 out Water carrier (in and out) with D12 quick connector	●	●	●	●	●	●	●	●

Hydraulic Part	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
Standard 1 set hydraulic core pulling	●	●	●	●	●	●	—	—
Standard 2 setts hydraulic core pulling	—	—	—	—	—	—	●	●
Add a / two/three set of hydraulic core pulling system	○	○	○	○	○	○	○	○
One / two / three set of hydraulic core pulling system with quick coupling	○	○	○	○	○	○	○	○
One set of pneumatic core pulling system	○	○	○	○	○	○	○	○
One/ two/three set of aeration system	○	○	○	○	○	○	○	○
Hydraulic rotary demoulding (without hydraulic motor)	○	○	○	○	○	○	○	○
Hydraulic rotary demoulding (with hydraulic motor)	○	○	○	○	○	○	○	○
Thimble / core pulling system with stacked check valve	○	○	○	○	○	○	○	○
Hydraulic motor for mold adjustment brake	○	○	○	○	○	○	○	○
Synchronous thimble for mould opening / glue melting / core pulling	○	○	○	○	○	○	○	○
With Carriage movement check valve	●	●	●	●	●	●	●	●
CNC back pressure	●	●	●	●	●	●	●	●
Hydraulic safety lock	●	●	●	●	●	●	●	●
Upgrade the oil pump motor by a / two grade	○	○	○	○	○	○	○	○
Oil temperature preheating function	○	○	○	○	○	○	○	○
Upgrade oil cooler	○	○	○	○	○	○	○	○
Installation of cooling water control valve	○	○	○	○	○	○	○	○
High speed servo opening and closing valve	○	○	○	○	○	○	○	○
High-speed servo open/close die valve	○	○	○	○	○	○	○	○
With Carriage movement check valve	●	●	●	●	●	●	●	●
nstallation of high pressure hose explosion-proof chain	●	●	●	●	●	●	●	●

Due to the continuous development of technology, improvement and update of design, the above specifications are subject

Electrical Part	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
Electric rotary demoulding (excluding motor)	○	○	○	○	○	○	○	○
Changing regional voltage	○	○	○	○	○	○	○	○
Installation of three-color alarm light	●	●	●	●	●	●	●	●
One set 2+3 220V/10A power socket	●	●	●	●	●	●	●	●
2 sets 2P 32A power socket	●	●	●	●	●	●	●	●
Adding power outlets	○	○	○	○	○	○	○	○
Equip ceramic heating ring	○	○	○	○	○	○	○	○
Add mould for return confirmation	●	●	●	●	●	●	●	●
Independent nozzle control	●	●	●	●	●	●	●	●
Emergency stop button of rear door	●	●	●	●	●	●	●	●
Speed test device for glue melting	●	●	●	●	●	●	●	●
Oil level alarm	○	○	○	○	○	○	○	○
Super high oil temperature alarm	●	●	●	●	●	●	●	●
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	○	○	○	○	○	○	○	○
Sequential glue injection interface	○	○	○	○	○	○	○	○
Sequential injection (with sequence valve)	○	○	○	○	○	○	○	○
European standard 67	○	○	○	○	○	○	○	○
European standard 12	○	○	○	○	○	○	○	○

Other Part	TM90 II	TM130 II	TM170 II	TM220 II	TM260 II	TM330 II	TM400 II	TM470 II
Pattern plate on the surface of shooting table	●	●	●	●	●	●	●	●
Change metal plate color (color other than A/A2)	○	○	○	○	○	○	○	○

Remark:Standard "● Optional "○"

After-Sale Service

Fast Response

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

Fast Arrival

Quickly arrive at customer site for equipment maintenance;

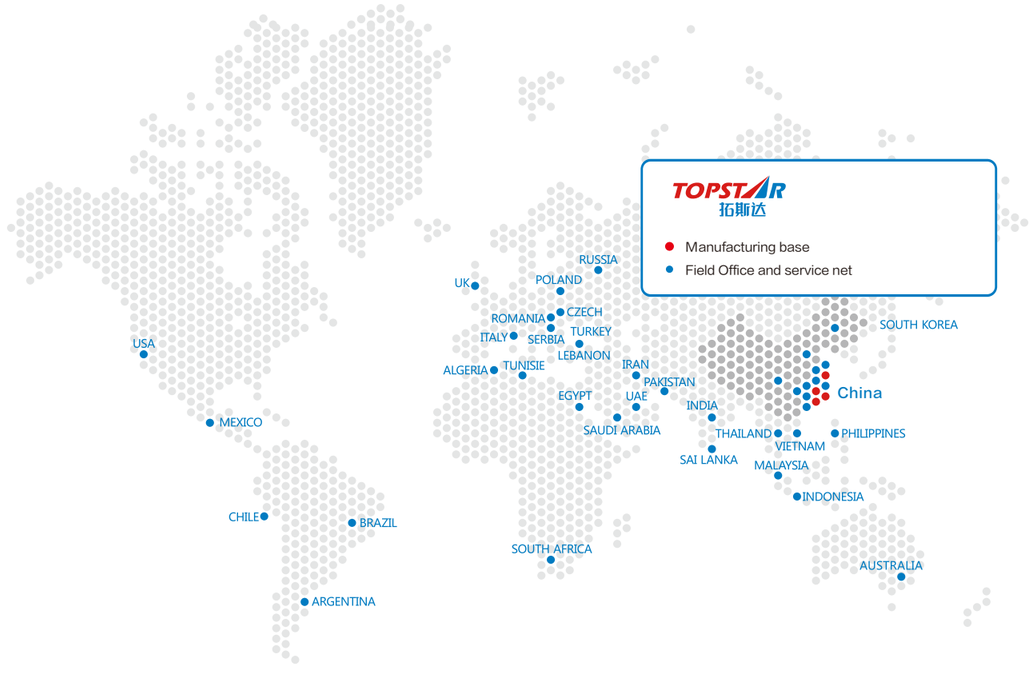
Fast Processing

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

Fast Acceptance

Quickly complete the service project acceptance.

Global Service Net



Sincerely Appreciate

Over 15000 customer have witnessed TOPSTAR growth and long supports