

Ningbo LK Injection Molding Machine Co., Ltd.

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LKIMM



POTENZA-III SERIES

ENERGY-SAVING AND HIGH-PRECISION SERVO INJECTION MOLDING MACHINE

LKIMM

200,000+
Total Sales Volume

LK, strives for your success

LKIMM

GROUP PROFILE

LK Group was founded in 1979 in Hong Kong. In 2006, it was listed on the main board of Hong Kong Stock Exchange and ranked in the Top 500 China machinery manufacturing enterprises.

As one of the three major businesses of the Group, the core products of injection molding machine are: double/multi-color injection molding machines, precise three-platen injection molding machines, large two-platen injection molding machines, electric injection molding machines and customized injection molding machines. The maximum clamping force of the two-platen injection molding machine reaches 7000T, which makes LK an industrial leader of the super-large injection molding machine.

Two intelligent production bases in Ningbo and Zhongshan make an annual output of 10,000 sets.



40 YEARS' TECHNOLOGY ACCUMULATION

/ 1979

△ LK brand was founded in Hong Kong.



/ 1989

○ First POTENZA series injection molding machine was produced successfully.

/ 1994

△ LK Zhongshan Machinery Co., Ltd. was founded.

/ 2002

△ LK Ningbo Machinery Co., Ltd. was founded.



/ 2006

△ LK Technology Group was listed on the main board of Hong Kong Stock Exchange.



/ 2007

○ Large 1300T multi-color injection molding machine was launched.



/ 2008

○ LK entered the field of two-platen machine firstly, and launched Forza large two-platen injection molding machine successfully.

/ 2013

○ Triple-color special injection molding machine for car light was honored with the "Hong Kong Industry and Commercial Award".

/ 2015

△ LK and BUCT have established a joint laboratory for micro injection molding.



/ 2016

△ LK Zhongshan new plant was officially put into use.

/ 2020

○ LK Group Forza-III 6000T super-large two-platen injection molding machine was officially put into operation, marking LK an industrial leader in super-large tonnage injection molding machine.
△ LK Machinery passed the "ISO 2020 Quality Certificate" and "CE Certificate".



/ 2022

△ LK Injection Molding Machine Co., Ltd. upgraded its brand and strategy, adopting a new LOGO "LKIMM" for entering the international market with a younger, smarter, and more eco-friendly concept.
○ Electric injection molding machine Elettrica series was officially launched.



/ 2023

△ LKIMM was selected as one of the "Top 35 Comprehensive Strength Enterprises in China's Plastics Machinery Manufacturing Industry 2023" and one of the "Top 18 Enterprises in China's Plastic Injection Molding Machine Industry 2023".
△ LK awarded the "Outstanding Entrepreneur Social Responsibility Award" and the "Enterprise Potential Award".

/ 2024

○ LK launched the 5th Generation PT Series Machines.



/ 2002

LK Zhongshan won the national "Double-Excellence Award" from China Association for Foreign Investment.

/ 2008

LK micro injection molding machine won the "Geneva International Gold Medal for Inventions and Innovative Technologies and Products".

/ 2009

LK Machinery was honored with the "Hong Kong Famous Brand".
LK SP series micro injection molding machine won the "Hong Kong Industry and Business Award".

/ 2010

LK injection molding machine reached the first-class national energy-saving standard, and was selected as the "National First Batch of Energy-saving Injection Molding Machines".

/ 2012

LK FORZA series two-platen injection molding machine won the "Ringier Technology Innovation Award".

LK Group was honored with the "Top 10 Enterprises in China Injection Molding Machine Industry".

/ 2013

Ningbo LK Machinery Co., Ltd. was rated as one of the National High-tech Enterprises.

LK Group was rated as the "Top 10 Injection Molding Machine Enterprises 2012".

/ 2014

LK was rated as the "China Top 500 Machinery" in consecutive years.

/ 2015

LK Group was honored with the 2015 "China Top 10 Enterprise in Injection Molding Machine Industry".

LK brand was awarded as the title of "China Famous Trademark".

/ 2018

LK was honored with the 2018 Hong Kong Outstanding Listed Enterprises Award.

/ 2019

Ningbo LK Machinery Co., Ltd. was rated as the Vice President Enterprise of China Plastics Processing Industry Association.

/ 2021

LK 6000T super-large two-platen injection molding machine was honored with the "2021 Ringier Technology Innovation Award of the Plastics Industry".

MANUFACTURE CAPABILITY



Advanced CNC Machining Centers

Advanced excellent machining equipment provides guarantee for high precision and quality, as well as product flexibility, advanced product efficiency and utilization.

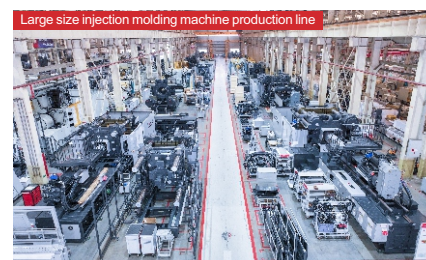
LKIMM has auto spray paint booth, HSG laser cutting machine and special welding robot with hydraulic oil tank, dozens of internationally advanced heavy machining centers like Spain Nicolas Correa, Japan Mitsubishi, Okuma, Amada and so on, which provide a solid guarantee for the high precision machining production. Otherwise, a bunch of well-educated and good-skilled operators make the parts pass rate 100%.



Intelligent Integrated Production Solutions

Intelligent production solutions are committed to customers' success by delivering integrated systems. Except machine itself, LK can also provide customers with peripheral equipment and automation equipment, as well as services for **factory planning, model selection, installation and commissioning, personnel training, process design, operation tracking and after-sales maintenance.**

"24/7 rapid response service" is already realized in most regions of China.

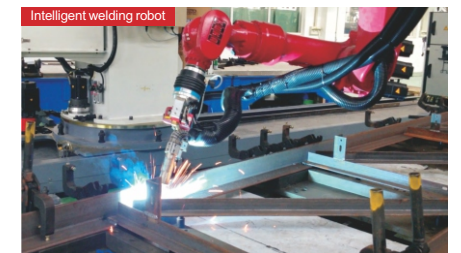
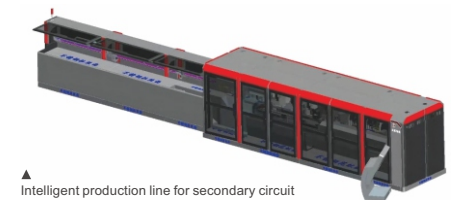


Digital Factory

Project loading modules have abundant functions, including equipment networking, alarms for lacking of material and stagnating, and TPM management. In the future, LK will realize collaborative manufacturing for different departments and supply chains, and intelligent injection molding and value-added services for customers. Thus, LK can realize all data interconnectivity for all processes starting from procurement to raw material warehousing, sheet metal processing, CNC machining, parts assembly, finished product delivery, and final customer usage.

Intelligent welding robot is in the service to make **a maximum output value per unit of labor, non-stop production, a more convenient application and a shorter cycle time.**

Otherwise, "Intelligent Automation Production Line For Secondary Circuit" is introduced to LK to make an auto production, so as to improve production speed and reduce labor cost. Flow line layout is designed for this equipment, easy for operation. With a modular system design, it allows for future expansion and upgrades. Additionally, it can be integrated with a MES system to further enable digital management.



Quality Assurance System

The excellent quality of LK injection molding machine originates from strict control to every machining and production process. Four major sectors are included in the quality assurance system, they are **raw material inspection, machining precision assurance, assembly process quality control and whole machine performance test.** For detection equipment, LK introduced Germany Renishaw laser detection system, CMM measurement system for key parts. For whole machine performance test, LK conducts production simulation for over 6,500 times without stop. LK guarantees 100% pass rate of machines through strict quality system control.

POTENZA-III SERIES

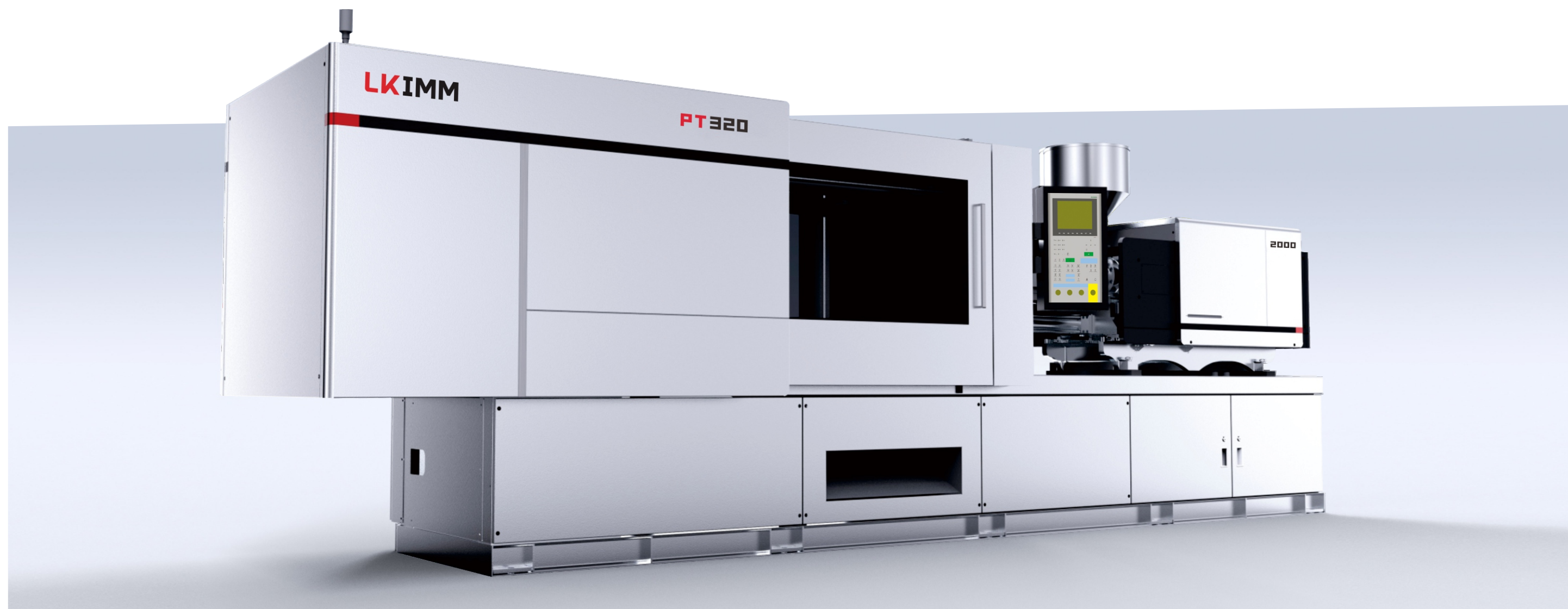
Energy Saving and High Precision Servo Injection Molding Machine

Application industry: toys, casters, lighting, home appliances, furniture, commodity, etc.

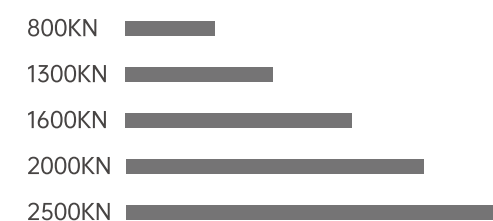
-  Reliable and stable
-  Efficient and flexible
-  Energy saving and environmental-friendly



POTENZA-III SERIES



Potenza-III Clamping Force



Clamping Unit

- Highly optimized clamping unit
- High rigidity fulfills the highest production performance requirements
- Small degree of platen deformation for better protection of molds
- Convenience and safety by ejector push-pull function
- Low energy consumption design

Injection Unit

- Fully enclosed injection unit, clean, safe and aesthetically appealing
- Stable, precise screw linear motion
- Premium screw and barrel to achieve product quality consistency

Control Unit

- Unique PLC with comprehensive functions
- Swivel type control panel with user-friendly design. Servo system with quick response
- Remote production management system (optional)

SPECIFICATIONS

A : Standard B : Optional

Item	Unit	PT80			PT130			PT160			PT200		
Injection Unit		270			410			570			800		
		B	B	A	B	B	A	B	B	A	B	B	A
Injection Weight (PS)	g	90	103	140	175	229	289	229	289	356	318	393	475
Screw Diameter	mm	28	30	35	35	40	45	40	45	50	45	50	55
Injection Volume	cm³	98	113	154	192	251	318	251	318	393	350	432	522
Injection Pressure	MPa	270	236	173	214	164	130	228	180	146	230	186	154
Screw L/D Ratio	L/D	25	23	20	25.7	22.5	20	25	22	20	24	22	20
Injection Rate	cm³/s	86	99	135	108	142	180	153	194	239	190	235	284
Screw Speed	r/min	0-240			0-210			0-220			0-210		
Hopper Capacity	L	50			50			50			60		
Clamping Unit													
Clamping Force	kN	800			1300			1600			2000		
Mold Thickness (min.-max.)	mm	150-390			150-450			180-520			180-550		
Opening Stroke	mm	320			360			430			490		
Space Between Tie Bars (HxV)	mm	360×360			410×410			470×470			530×530		
Ejector Stroke	mm	100			120			140			150		
Ejector Force	kN	27			49			49			67		
Others													
Pump Motor Power	kW	16.6			16.6			22.3			28.1		
System Pressure	MPa	17.5			17.5			17.5			17.5		
Oil Tank Capacity	L	160			175			270			270		
Heating Capacity	kW	7.5			11.3			15.2			16.9		
Machine Dimension(LxWxH)	mm	4150×1150×2000			4770×1240×2130			5290×1320×2240			5830×1450×2220		

Please contact us if you got any special requirements for injection molding products with the engineering material: PVC, PC, ABS (fireproof), PMMA, POM or others.
We reserve the right to make any technical improvements without further notice.

Item	Unit	PT250			PT280			PT320			PT400		
Injection Unit		1100			1400			2000			2500		
		B	B	A	B	B	A	B	A	B	B	A	B
Injection Weight (PS)	g	473	572	681	604	720	844	849	996	1155	1086	1260	1447
Screw Diameter	mm	50	55	60	55	60	65	60	65	70	65	70	75
Injection Volume	cm³	520	629	749	665	791	929	932	1094	1269	1194	1385	1590
Injection Pressure	MPa	219	181	152	211	178	151	217	185	159	213	184	160
Screw L/D Ratio	L/D	24	22	20	24	22	20	23	21	20	23	21	20
Injection Rate	cm³/s	266	322	383	276	328	385	336	394	457	342	397	455
Screw Speed	r/min	0-200			0-200			195			180		
Hopper Capacity	L	60			60			100			100		
Clamping Unit													
Clamping Force	kN	2500			2800			3200			4000		
Mold Thickness (min.-max.)	mm	200-580			220-630			220-680			250-750		
Opening Stroke	mm	540			590			640			700		
Space Between Tie Bars (HxV)	mm	610×570			630×630			710×660			760×720		
Ejector Stroke	mm	150			150			180			180		
Ejector Force	kN	77			77			110			110		
Others													
Pump Motor Power	kW	41.4			41.4			47.7			47.7		
System Pressure	MPa	17.5			17.5			17.5			17.5		
Oil Tank Capacity	L	365			430			520			580		
Heating Capacity	kW	20.6			25.1			23.6			31.5		
Machine Dimension(LxWxH)	mm	6290×1610×2330			6910×1640×2370			7390×1800×2270			7890×1920×2320		

SPECIFICATIONS

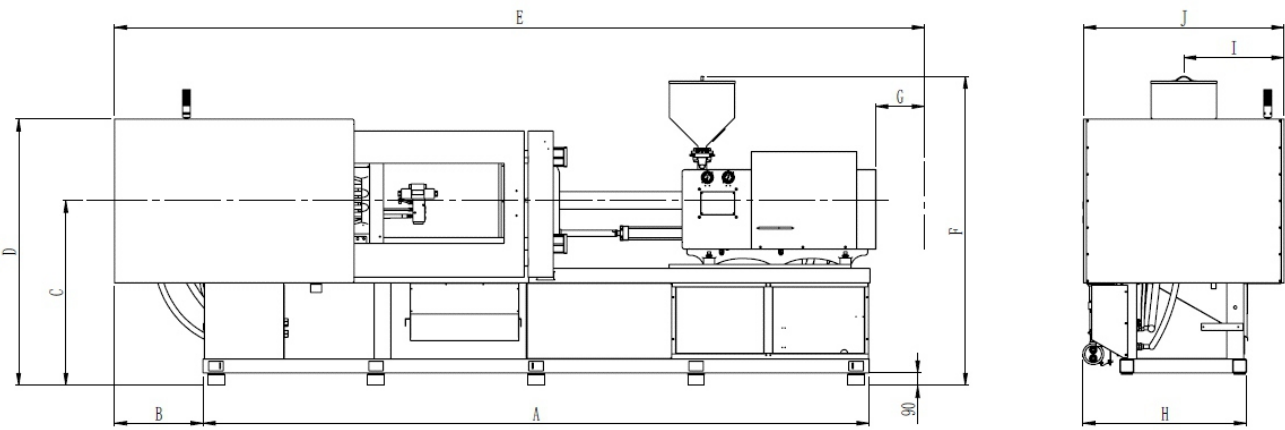
A : Standard B : Optional

Item	Unit	PT480			PT560			PT650			PT750		
Injection Unit		3300			3900			5100			5800		
		B	A	B	B	A	B	B	A	B	B	A	B
Injection Weight (PS)	g	1435	1647	1874	1708	2194	2459	2057	2604	3215	2374	2965	3622
Screw Diameter	mm	70	75	80	75	85	90	80	90	100	85	95	105
Injection Volume	cm³	1576	1810	2058	1876	2410	2702	2261	2861	3533	2608	3259	3981
Injection Pressure	MPa	212	185	162	209	163	145	225	178	144	221	177	145
Screw L/D Ratio	L/D	23	21	20	24	21	20	25	22	20	25	22	20
Injection Rate	cm³/s	481	552	628	558	716	803	647	819	1011	659	823	1005
Screw Speed	r/min	170			160			150			140		
Hopper Capacity	L	125			125			125			125		
Clamping Unit													
Clamping Force	kN	4800			5600			6500			7500		
Mold Thickness (min.-max.)	mm	300-820			350-850			350-920			400-1000		
Opening Stroke	mm	800			850			900			980		
Space Between Tie Bars (HxV)	mm	832×820			860×860			935×915			1000×960		
Ejector Stroke	mm	200			240			270			280		
Ejector Force	kN	110			166			210			270		
Others													
Pump Motor Power	kW	41.4 + 28.1			41.4 × 2			47.7 × 2			47.7 × 2		
System Pressure	MPa	17.5			17.5			17.5			17.5		
Oil Tank Capacity	L	680			870			910			1100		
Heating Capacity	kW	35.1			39.2			47.4			49.4		
Machine Dimension(LxWxH)	mm	8680×2000×2430			9470×2200×2370			10090×2320×2470			10800×2390×2520		

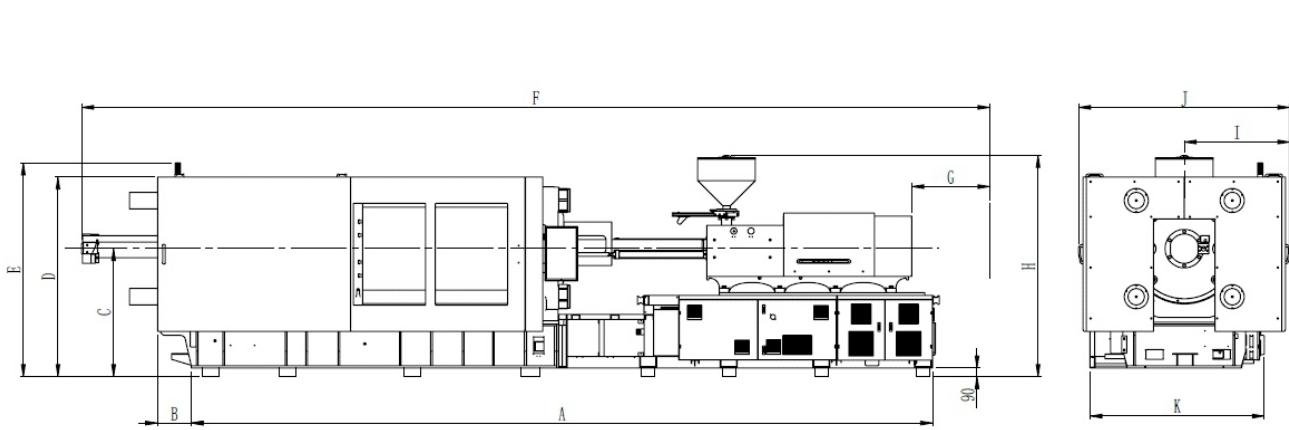
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Item	Unit	PT850			PT1000			PT1250			PT1480		
Injection Unit		6600			9200			9600			13100		
Injection Unit		B	A	B	B	A	B	A	B	B	A	B	A
Injection Weight (PS)	g	2748	3393	4105	3929	4754	5657	3931	4757	5660	5708	6792	7972
Screw Diameter	mm	90	100	110	100	110	120	100	110	120	110	120	130
Injection Volume	cm³	3020	3729	4511	4317	5224	6217	4320	5227	6220	6272	7464	8760
Injection Pressure	MPa	218	176	146	214	177	149	223	185	155	209	175	150
Screw L/D Ratio	L/D	24	22	20	24	22	20	24.2	22	23	24	22	20.3
Injection Rate	cm³/s	670	827	1000	871	1054	1254	746	905	1078	1052	1252	1469
Screw Speed	r/min	110			110			110			100		
Hopper Capacity	L	150			150			150			150		
Clamping Unit													
Clamping Force	kN	8500			10000			12500			14800		
Mold Thickness (min.-max.)	mm	400-1100			450-1160			550-1250			700-1400		
Opening Stroke	mm	1100			1220			1310			1500		
Space Between Tie Bars (H×V)	mm	1080×1020			1160×1160			1250×1250			1460×1360		
Ejector Stroke	mm	300			320			320			350		
Ejector Force	kN	270			270			270			318		
Others													
Pump Motor Power	kW	47.7 × 2			57.8×2			57.8×2			47.7×3		
System Pressure	MPa	17.5			17.5			17.5			17.5		
Oil Tank Capacity	L	1100			1700			1900			2400		
Heating Capacity	kW	59.3			65.3			65.3			79.9		
Machine Dimension(L×W×H)	mm	11280×2510×2570			12165×2625×2850			12980×2770×3060			14080×3165×3465		

MACHINE DIMENSIONS



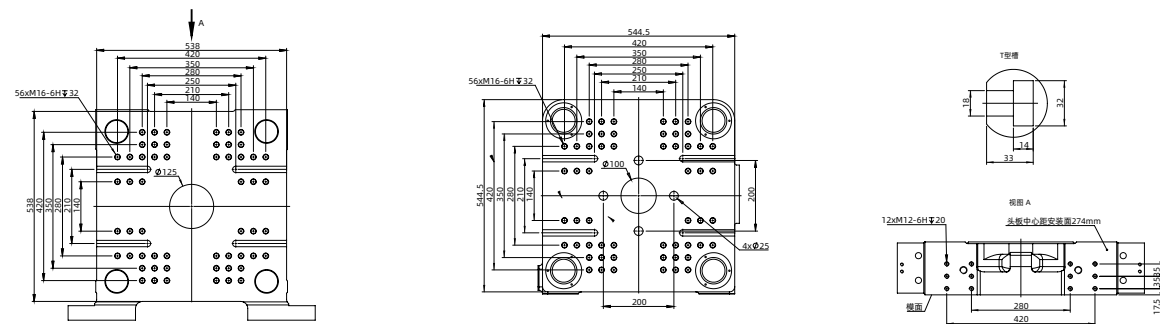
Model	PT80	PT130	PT160	PT200	PT250	PT280
A	3685	3905	4389	4787	5105	5575
B	464	542	536	636	744	820
C	1114	1235	1269	1327	1455	1453
D	1598	1712	1765	1911	2019	2067
E	4139	4768	5282	5822	6289	6908
F	2004	2127	2238	2217	2330	2371
G	230	280	300	350	360	420
H	945	1031	1059	1177	1364	1364
I	581	617	651	721	877	895
J	1142	1233	1315	1441	1604	1639



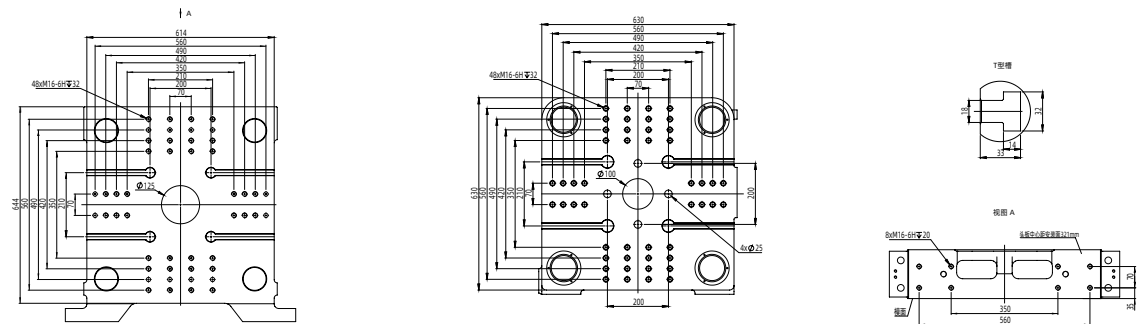
Model	PT320	PT400	PT480	PT560	PT650	PT750	PT850	PT1000	PT1250	PT1480
A	5565	5900	6789	7722	7983	8622	8945	10197	9996	11037
B	421	422	471	350	373	373	412	247	607	544
C	1368	1407	1455	1330	1395	1427	1433	1514	1688	1605.5
D	1927	1981	2092	2074	2175	2225	2274	2475	2523	2705
E	2261	2315	2426	2365	2465	2514	2563	2735	2643	2795
F	7386	7884	8680	9461	10085	10706	11271	12007	12980	14080
G	630	660	740	815	885	915	915	1050	1300	1480
H	2288	2457	2395	2299	2368	2400	2431	2882	3057	3278
I	915	959	996	1100	1235	1294	1353	1267	1291	1440
J	1828	1919	1992	2201	2320	2388	2506	2534	2765	3065
K	1791	1800	1790	1816	1866	1942	2038	2016	2570	2280

PLATEN DIMENSIONS

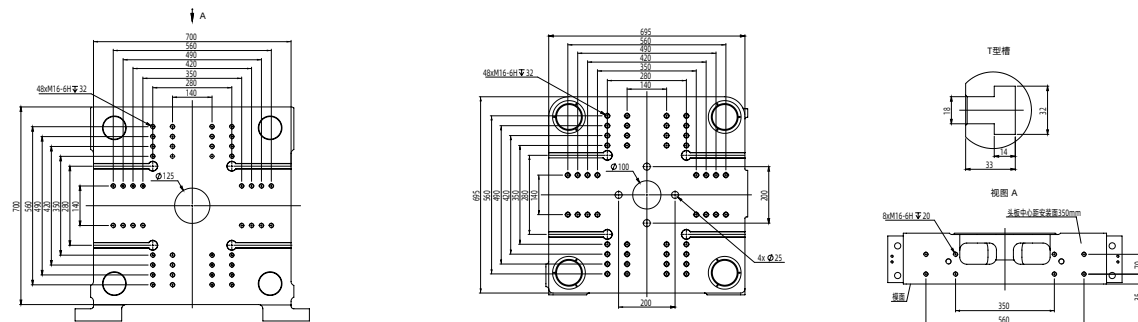
PT80-III



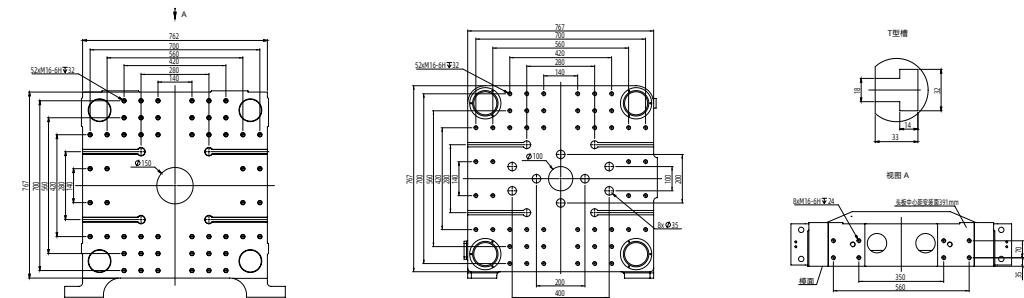
PT130-III



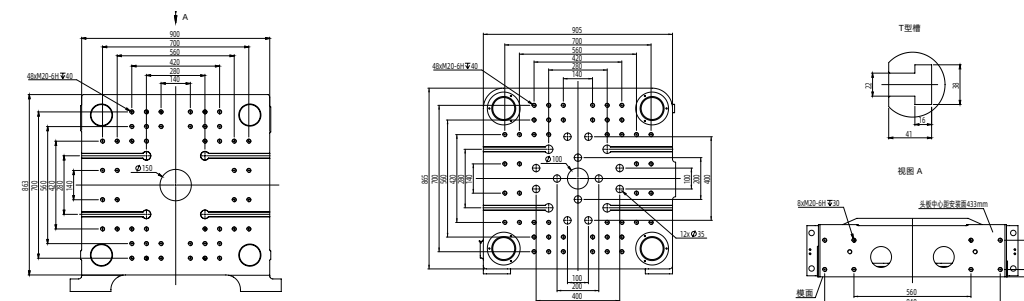
PT160-III



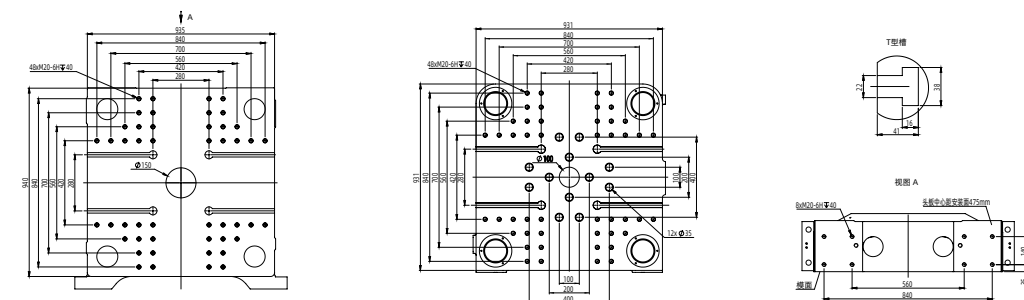
PT200-III



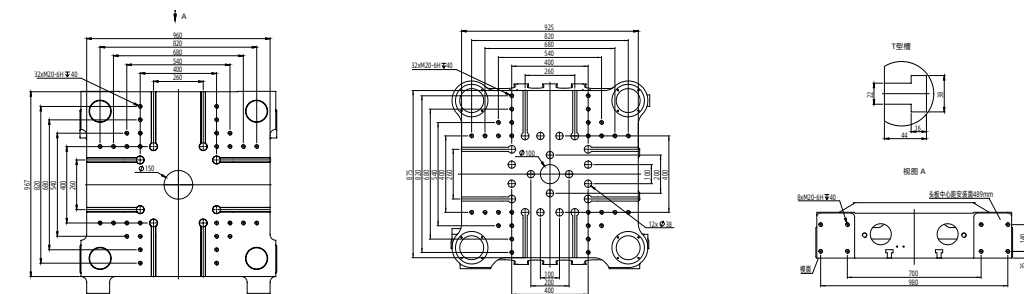
PT250-III



PT280-III

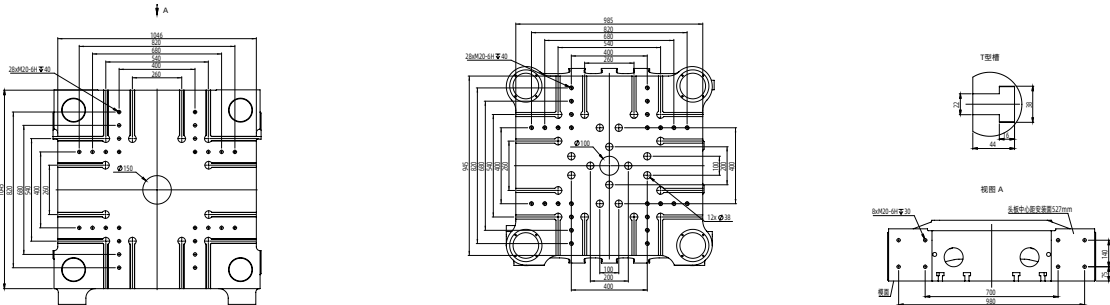


PT320-III

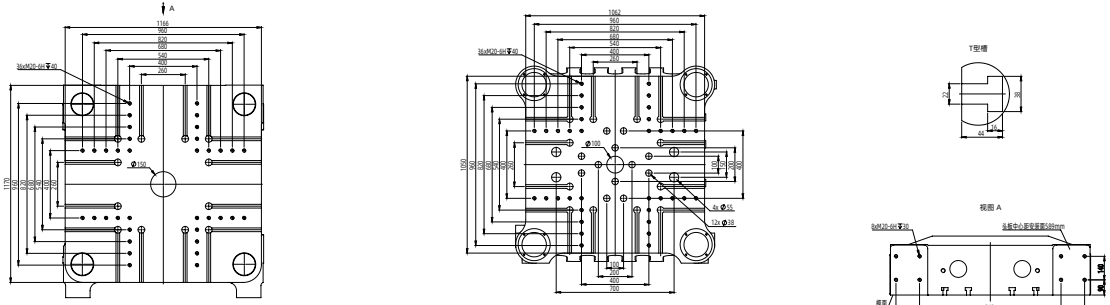


PLATEN DIMENSIONS

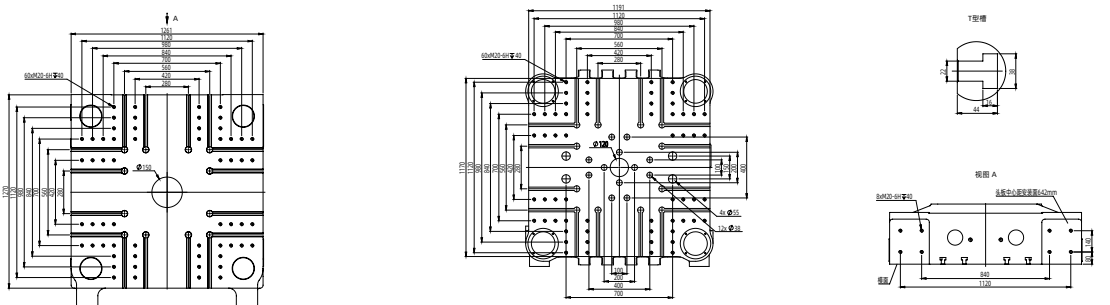
PT400-III



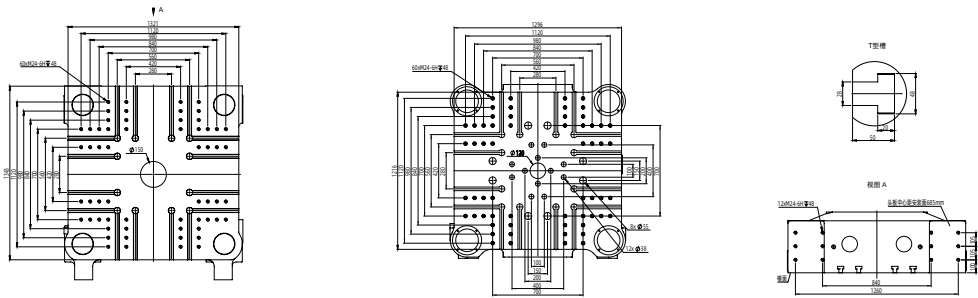
PT480-III



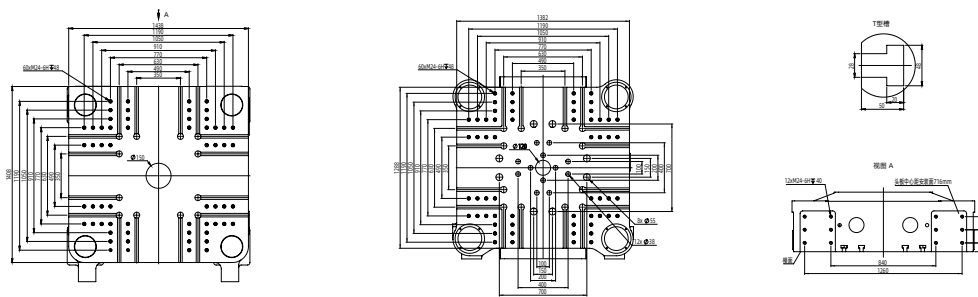
PT560-III



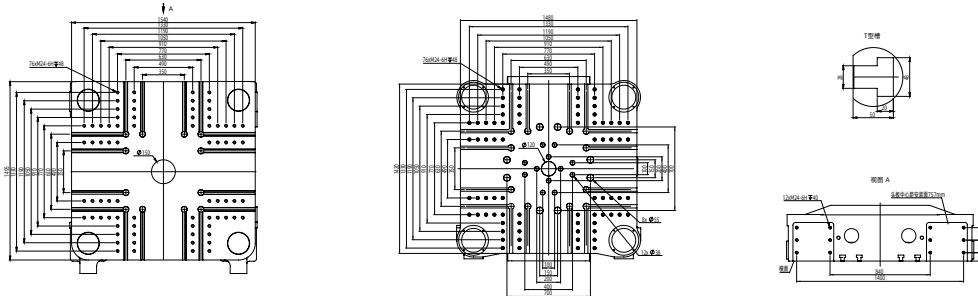
PT650-III



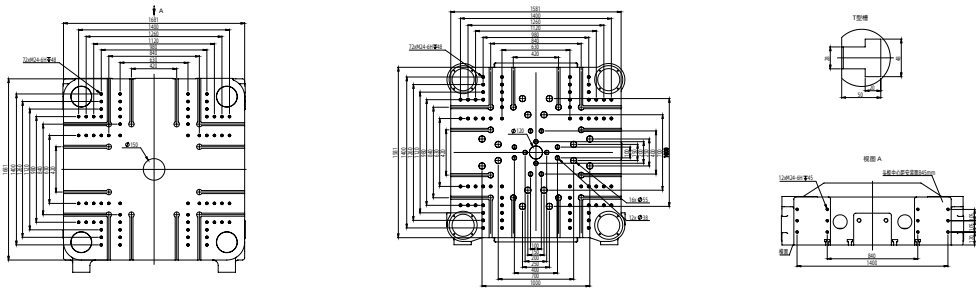
PT750-III



PT850-III

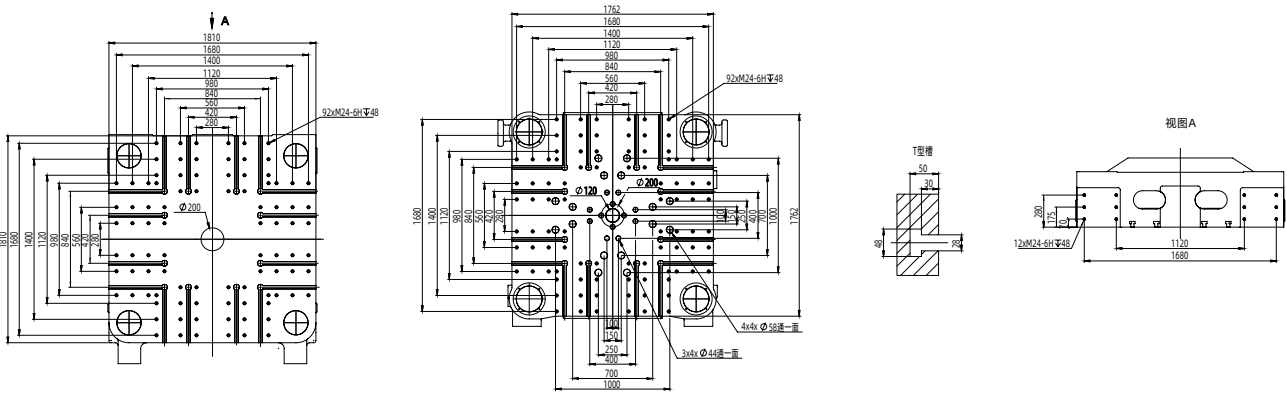


PT1000-III

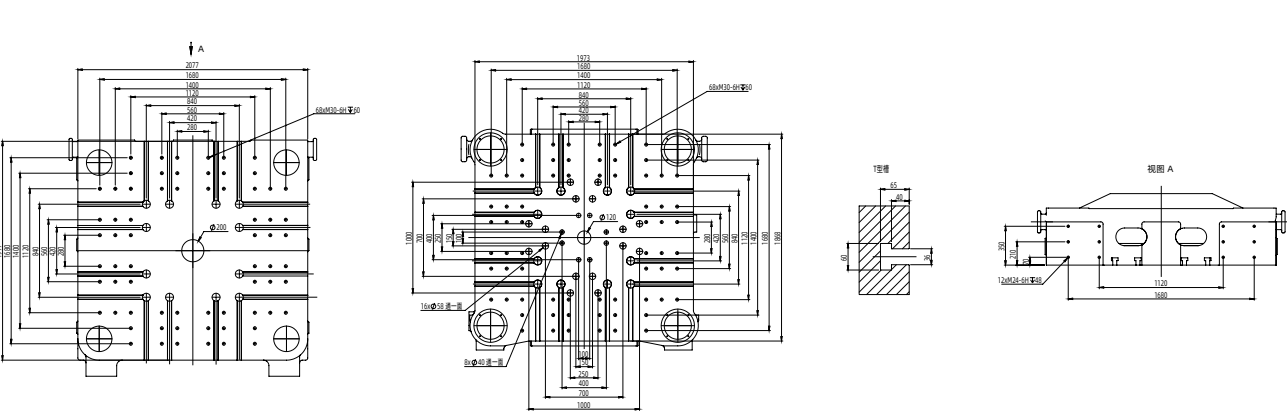


PLATEN DIMENSIONS

PT1250-III



PT1480-III



单位:mm																		
	项目	机型	PT80	PT130	PT160	PT200	PT250	PT280	PT320	PT400	PT480	PT560	PT650	PT750	PT850	PT1000	PT1250	PT1480
	射嘴球面尺寸	SR	10	10	10	10	10	10	15	15	15	15	15	15	15	15	20	20
	标准射嘴凸出头板长度	L	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	加长射嘴凸出头板长度	L'	80	80	80	80	80	80	100	100	100	120	120	120	120	120	120	150

CONFIGURATION SELECTION

Standard configuration	Optional configuration
Clamping unit • Mold quick change and ejector force returned function • Above tool area safety cover protection (PT80-280) • Central distribution lubrication system • Finished part drop out chute (PT80-280) • Electric and hydraulic safety lock • One air blowing device on both fixed and movable platen	○ Mold cooling water regulator ○ Mechanical safety lock
Injection unit • Finished product dropout chute (PT80-280) • Double layer plasticizing unit protection cover • Metering measuring device • Digital metering back pressure • Electroplated alloy screw assembly • Injection nozzle protection cover	○ Hopper ○ Barrel temperature preservation cover ○ Customize plasticizing unit ○ Extended nozzle
Control unit • 8" color control panel (PT80-280) • 12" color control panel (PT320-1480)	○ Central cloud intranet monitoring system
Hydraulic unit • Oil temperature and oil level indicator	○ Multi sets core puller ○ Un-threading or unscrewing device ○ Pump motor power increase by one level
Others	○ Peripheral equipment