

LK S.R.L.

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www.lk.world

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LKIMM



FORZA SERIES

**HIGH-PERFORMANCE LARGE TWO-PLATEN
INJECTION MOLDING MACHINE**

FA450-FA7000

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 Eletrica series was officially launched.

LKIMM



/ 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.



○ Product milestone △ Enterprise milestone

/ 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.

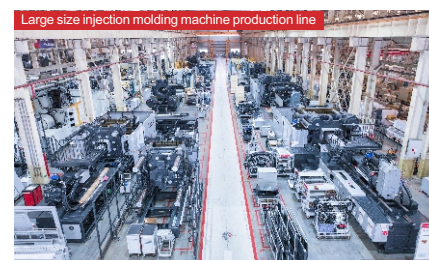
LKIMM has auto spray paint booth, HSG laser cutting machine and special welding robot with hydraulic oil tank, dozens of internationally advanced heavy machining centers like Spain Nicolas Correa, Japan Mitsubishi, Okuma, Amada and so on, which provide a solid guarantee for the high precision machining 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.

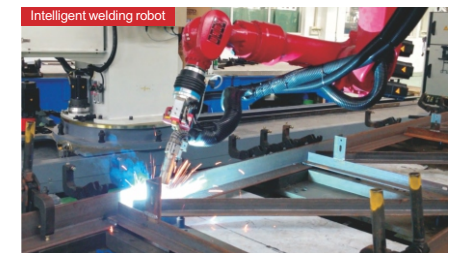
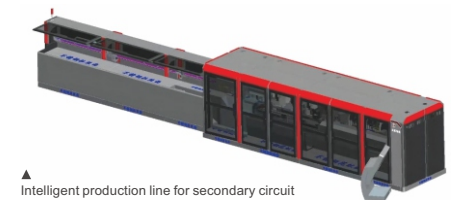


Digital Factory

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.

CORE ADVANTAGES

Higher Efficiency

Short-stroke clamping cylinder, synchronous tie bar locking, differential fast mold opening, precision linear guide rail with high-rigidity sliding foot, low-resistance and high-response servo system, all enabling rapid equipment response and higher efficiency.

More Energy-Saving

External clamping cylinder structure, non-contact fit between tie bars and moving platen, closing cylinder mounted on the fixed platen, lighter load on the moving platen, greatly reducing mold opening and closing resistance to achieve low energy consumption; servo motor system and PID precise temperature control make the equipment more energy-efficient.

More Intelligent

Austria KEBA intelligent control system with dual-core CPU and fast command response, featuring reserved networking hardware interfaces and optional open OPC communication protocol, enabling integration with injection molding MES networking system to achieve seamless interconnection between machine data and the cloud, supporting the creation of an Industry 4.0 intelligent factory.

A More Precise And Efficient Plasticizing System

High-precision injection position transducer with injection position accuracy of ± 0.2 mm, combined with PID precise temperature control, high-quality screw components, uniform plasticizing, and high efficiency.

A More Powerful Drive System

Equipped with a high-performance servo power system with rapid response, air-cooled motor to guarantee safe and stable operation of the power system, while delivering strong and robust power.

More Stable

High-rigidity clamping structure, diagonal-positioned closing cylinders, high-rigidity cast iron platen design, high-frequency response proportional directional valve control, and high-precision oil circuit filtration and cooling systems ensure greater reliability and stability of the equipment.

Shorter Dry Cycle Time

Fast high-pressure cylinders and synchronous tie bar locking significantly shorten the mold opening and closing response time. **(Example: the FA2700T achieves a minimum dry cycle time of 9 seconds.)**

High-Rigidity Frame Design

The entire frame is designed based on finite element analysis, providing strong bending resistance, minimal deformation during machine operation, stable production conditions, improved product quality, and extended machine service life.

Ergonomic Design

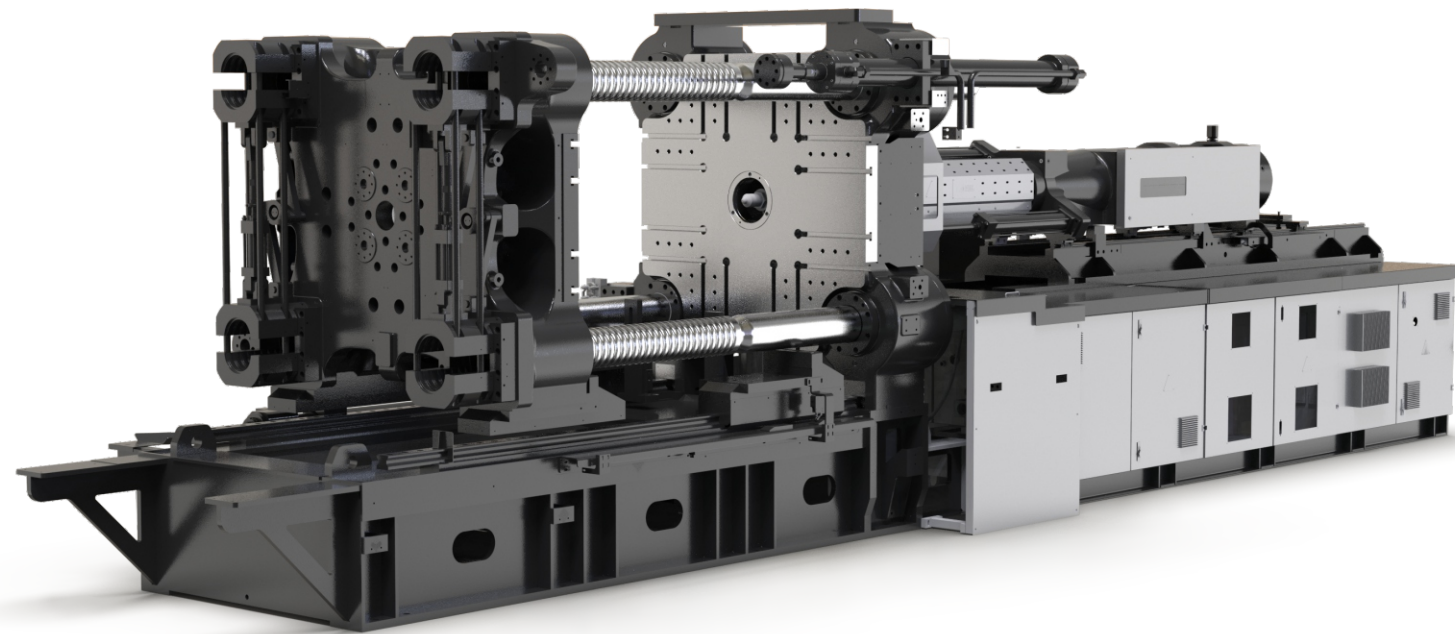
Efficient utilization of internal machine space with a compact structural design results in a smaller footprint, comfortable manual operation, and higher efficiency.

Modular Design

Customized configurations can be made according to different product requirements, perfectly adapting to the production needs of various industries, transforming the injection molding machine into a dynamically upgradeable hardware platform.



CLAMPING UNIT



High-Precision Clamping Position Monitoring

Equipped with high-precision position transducer for mold opening and closing, with accuracy up to **0.01 mm**, allowing real-time monitoring of mold positions on the computer.



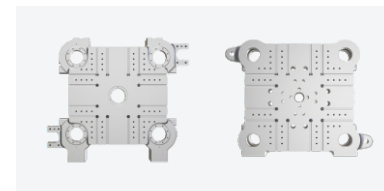
Four Short-Stroke High-Pressure Cylinders

Mounted on the fixed platen, ensuring uniform force distribution on the mold under high-pressure conditions, with clamping force monitored in real time on the computer.



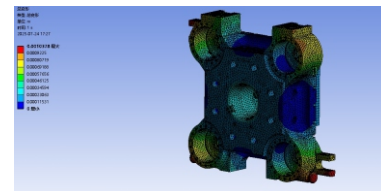
All Models Are Equipped With T-Slots And Mold-Mounting Holes

Facilitates mold installation and removal, shortens product changeover time, and improves efficiency by **30%-40%**.



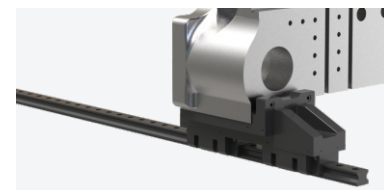
High-Rigidity Platen

The platens are designed using finite element analysis, ensuring uniform force distribution and minimal deformation.



High-Rigidity Platen Sliding Foot + Precision Linear Guide Rails

Enhances the stability of supporting heavy molds while ensuring precise platen motion.



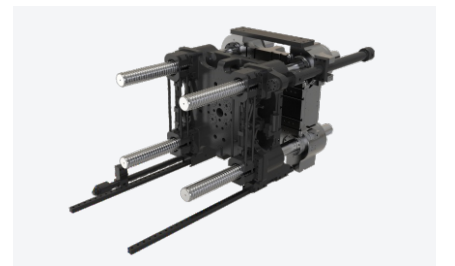
Synchronous Buffer Mechanism for Tie Bar Locking

Ensures synchronous tie bar locking, providing quick, smooth operation with low noise.



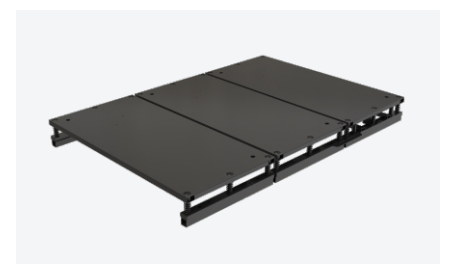
Independent Diagonal-Positioned Closing Cylinder

Delivers strong mold opening force and rapid mold movement. All models are equipped with high-pressure mold opening functions to solve problems such as high internal mold stress and difficult mold opening for lighting parts, deep-cavity parts, and similar products.



Large-Area Safety Pedal

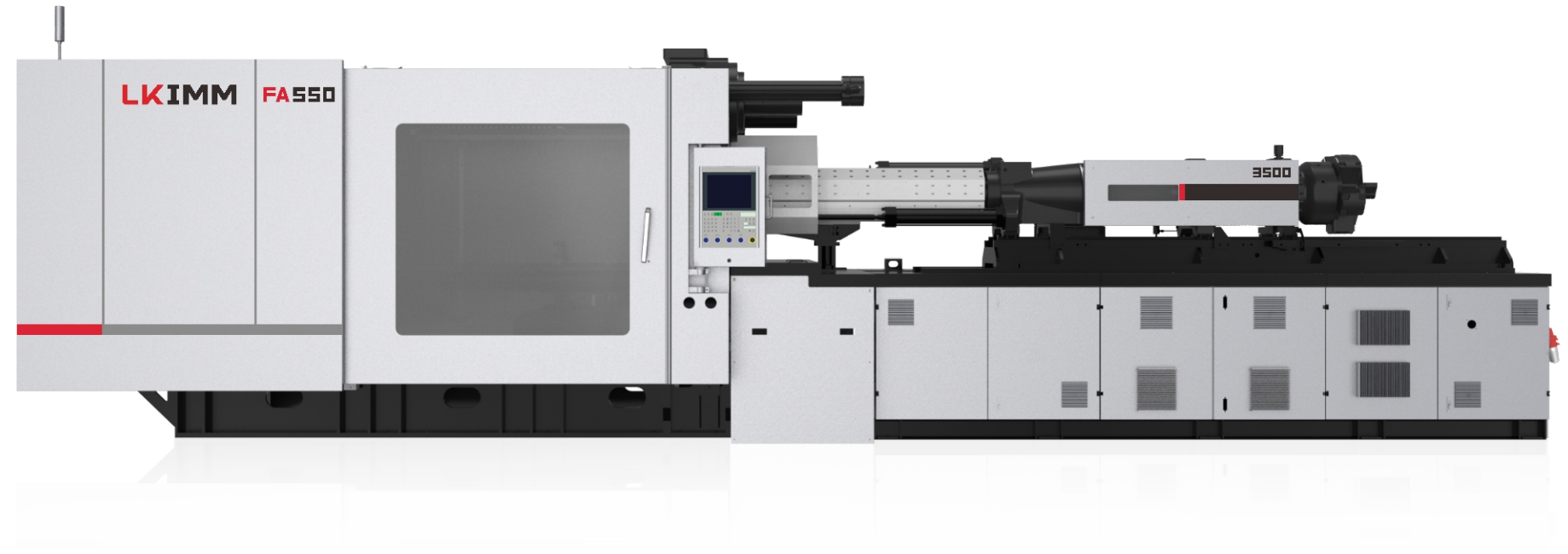
Models FA1000T and above are equipped with safety pedals, providing protective safety for the mold opening and closing area while preventing oil contamination on the floor.



INJECTION UNIT

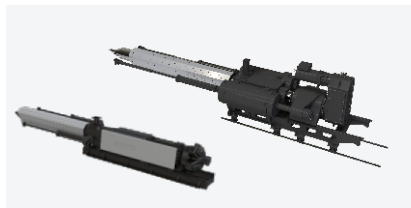
High-Precision Injection Control Ensures Precise And Stable Production Processes

FORZA series two-platen injection molding machines offer optional single-cylinder or double-cylinder injection units (double-cylinder design saves space). Precision linear guide rails enable smooth and durable injection, with an accuracy of ± 0.2 mm (product deviation $\leq 0.3\%$). Double-layer barrel cover ensures strong thermal insulation. Intelligent back-pressure adjustment and PID temperature control ensure precise and stable production.



Rich Configuration Options

Both single-cylinder and double-cylinder injection systems feature mature and stable structures to meet different requirements. The double-cylinder injection system offers a more compact structure, greatly reducing machine dimensions and saving floor space.



High Injection Accuracy

Injection monitoring utilizes high-precision position transducer, with injection endpoint repeatability $\leq \pm 0.2$ mm and product repeatability $\leq 0.3\%$.

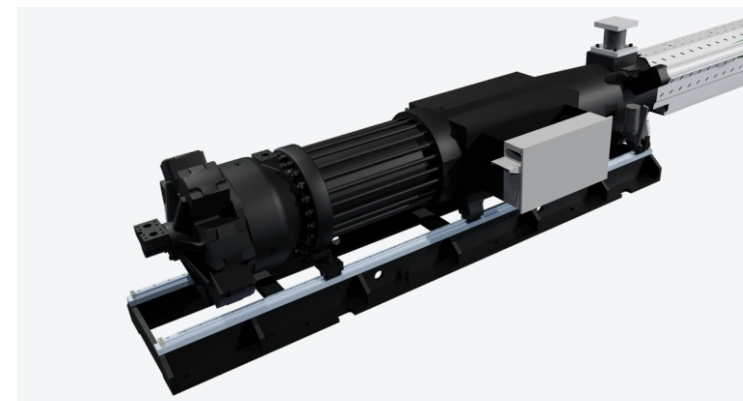


Intelligent Back-Pressure Adjustment

Addition of zero back-pressure function during material storage to meet customer requirements for back-pressure adjustment with different materials.

Injection Unit With Precision Linear Guide Rails

- Smoothness: low friction coefficient enables seamless completion of injection motions.
- Accuracy: compared with traditional guide post designs, linear guides provide higher precision, improving injection accuracy.
- Durability: under the same production conditions, linear guides offer a longer service life than traditional guide rails.
- High speed: rapid response in injection motions.



Barrel Insulation Device

Equipped with a double-layer detachable barrel cover design, reducing heat loss from heating bands and effectively improving heating and insulation performance.

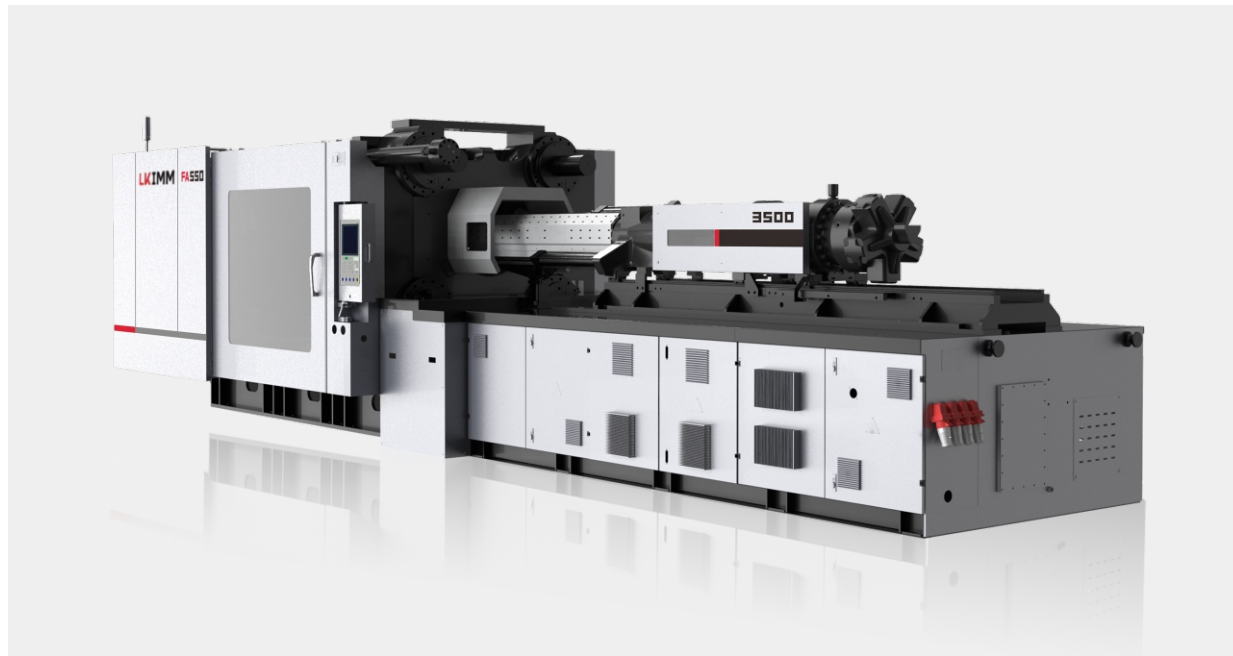


PID Temperature Control Technology

The barrel adopts ceramic heating bands with high heating efficiency, combined with solid-state relay adaptive temperature control technology, ensuring precise temperature regulation.



HYDRAULIC UNIT



Fast Response, Strong Overload Capacity, More Energy-Efficient

The hydraulic system is designed to provide stable and fast response for injection molding machines, with optimized oil circuit working conditions. The system responds quickly, has strong overload capacity, and minimizes energy loss during operation, meeting national Level 1 energy efficiency standards.



Precision Filtration And Cooling System

An independent hydraulic oil circuit cooling system with reserved cooling water interface space, provides filtration accuracy up to 5 μm . This ensures precise oil filtration while enhancing cooling performance, extending the service life of machine sealing components, and improving overall stability.



ELECTRICAL CONTROL UNIT



Precise Control, Stable And Reliable

Equipped with the Austria KEB A intelligent control system, featuring a dual-core CPU and 1 ms response time for precise control of position, pressure, speed, and temperature. Self-developed control programs offer strong scalability, ensuring the entire system is reliable, stable, and user-friendly, delivering an optimal user experience.

Multifunctional

- Freely programmable to support a wide variety of production requirements.
- Process parameter and alarm data storage function, equipped with a USB interface for connection to external storage devices.
- Configurable multi-level user access permissions to protect system data security.
- Quality Data Process Control (PDP) and Statistical Process Control (SPC) functions.
- The operation panel is equipped with an emergency stop switch to promptly protect both personnel and equipment safety.
- Capable of integrating multiple injection molding process control functions.

User-Friendly Operation

- 12-inch touch control panel.
- Free switching between multiple languages and units.
- Quick input via virtual keyboard.
- The parameter setting interface is simple and clear, allowing for quick setting of process parameters.



Independent Waterproof Plug-In Module For Peripheral Equipment

Independent waterproof socket box on the helper side with separate on/off control, thus avoiding the need to open the electrical cabinet, providing greater safety and convenience.



APPLICATIONS

A Versatile And Efficient Solution For Large Parts

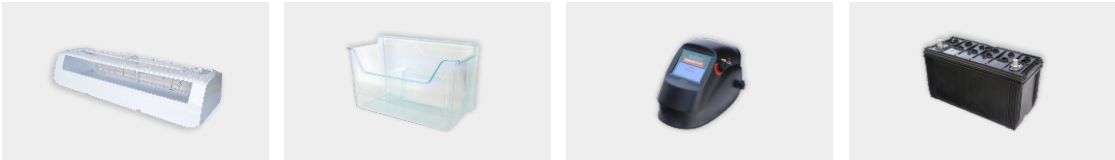
- LK's energy-saving two-platen injection molding machine Forza features an optimized integration of mechanical, hydraulic, and control systems. Its compact design minimizes the footprint, while its multi-functional capabilities and various add-on modules perfectly meet the production needs of high-performance products.
- Based on a modular design concept, the clamping and injection units are flexible and modular, perfectly adapting to production requirements across different industries. Equipped with a powerful servo pump and optimized oil circuit design, it significantly reduces cycle time. Multiple servo drive systems can be paired according to actual production needs to achieve optimal energy savings.
- With its flexible and customizable design, the Forza series is widely applicable to large plastic products, automotive parts, and high-gloss plastic products, making it your best choice.



LKIMM - Ahead Of The Curve

The development of injection molding machines is evolving accordingly, thanks to the advancement of technology and the continual development of better materials. LKIMM aims to leverage high-tech technology to make our products more energy-efficient and adaptable to diverse production needs.

- Lightweight materials and automated systems help reduce costs and streamline production processes.
- Combining customization with advanced technology, LKIMM provides customers with high-quality products.
- As public awareness of environmental protection and climate change rises, more and more products are adopting biodegradable and recycled materials. LK's injection molding machines, with their high-tech design, will effectively support the production and application of different materials, delivering perfect quality.



CONFIGURATIONS

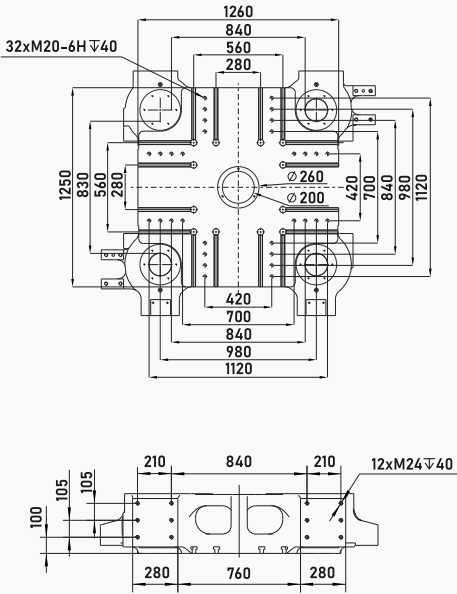
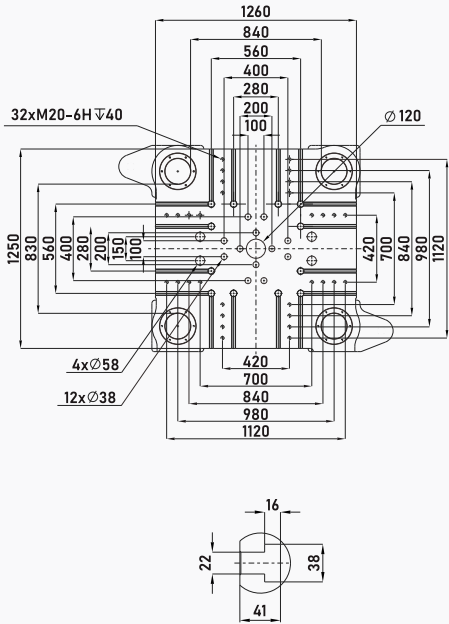
	Standard	Optional
Clamping unit	● Quick-change ejector and forced reset device ● Rapid dual mold clamping cylinder ● Linear guide support for movable platen movement ● Synchronized ejector or core pulling ● Electrical and hydraulic dual safety lock ● Differential rapid mold opening ● Clamping proportional directional valve (FA450-3500) ● 1 group of blowing device for both molds	○ Flow meter for mold cooling water ○ Blowing device for fixed mold and movable mold
Injection unit	● Numerical-controlled back pressure for plasticizing ● Barrel double-layer protective cover ● Plasticizing counter device ● Nozzle protective cover ● Linear guide support for injection unit movement	○ Injection proportional directional valve ○ Special barrel assembly ○ Non-standard injection system ○ Barrel constant temperature cover ○ Hydraulic (pneumatic) nozzle ○ Extended injection nozzle ○ Synchronized plasticizing
Control unit	● 12-inch color display screen	○ 15-inch color display screen ○ Central network system ○ Hot runner control system and interface
Hydraulic unit	● Oil temperature and oil level indicator	○ Multi-group core-pulling devices ○ Injection interface for sequential valve
Others		○ Peripheral equipment

TECHNICAL PARAMETERS

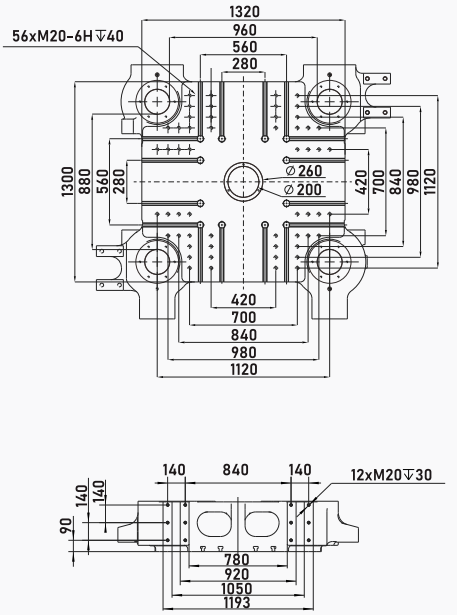
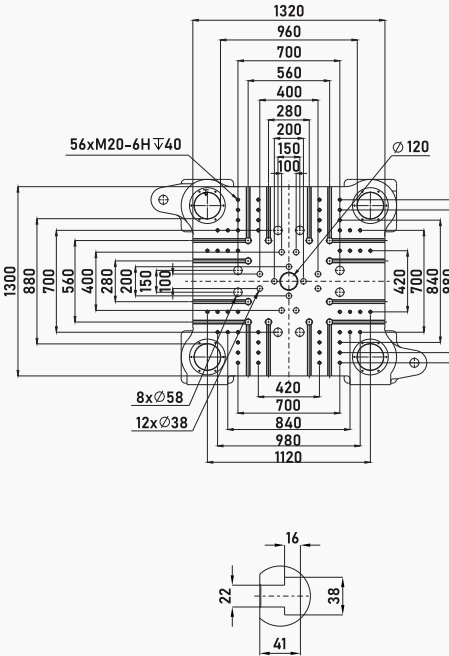
Model	Unit	FA450						FA550					
Injection unit		Standard			Optional			Optional			Standard		
injection system		2300			3500			2300			3500		
Injection weight (PS)	g	996	1155	1509	1527	1737	2199	996	1155	1509	1527	1737	2199
Screw diameter	mm	65	70	80	75	80	90	65	70	80	75	80	90
Injection volume	cm³	1094	1269	1658	1678	1909	2416	1094	1269	1658	1678	1909	2416
Injection pressure	Mpa	219	189	145	210	185	146	219	189	145	210	185	146
Screw L/D ratio	L/D	23	22	19	24	23	20	23	22	19	24	23	20
Injection rate	cm³/s	426	494	645	443	504	639	506	586	766	526	599	758
Screw speed	r/min	166			127			166			146		
Hopper capacity	L	125			125			125			125		
Clamping unit													
Clamping force	kN	4500						5500					
Mold height (min.-max.)	mm	350-900						400-950					
Max. Opening stroke	mm	1650						1750					
Tie bar distance	mm	840×830						960×880					
Ejector stroke	mm	250						250					
Ejector force	kN	165						195					
Others													
Motor power	kW	28.1×2						41.4×2					
Max. working pressure	Mpa	17.5						17.5					
Oil tank capacity	L	800						1000					
Heating capacity	kW	31			39			31			39		
Dimension (L×W×H)	mm	7905×2308×2260						8019×2428×2310					

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
2. LK Group reserves the right to make any technical and parameter changes without prior notice.

Platen Dimensions FA450



Platen Dimensions FA550

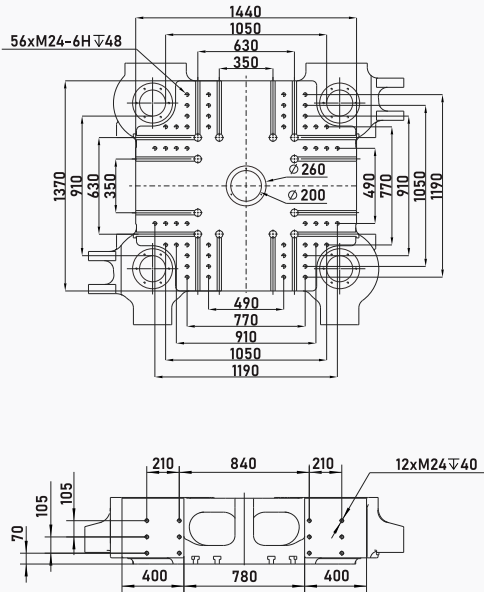
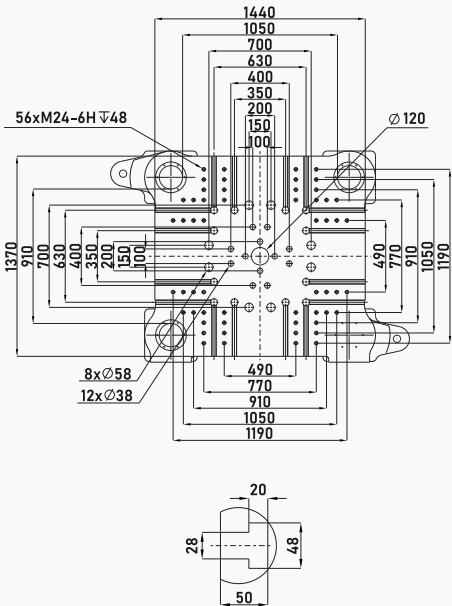


TECHNICAL PARAMETERS

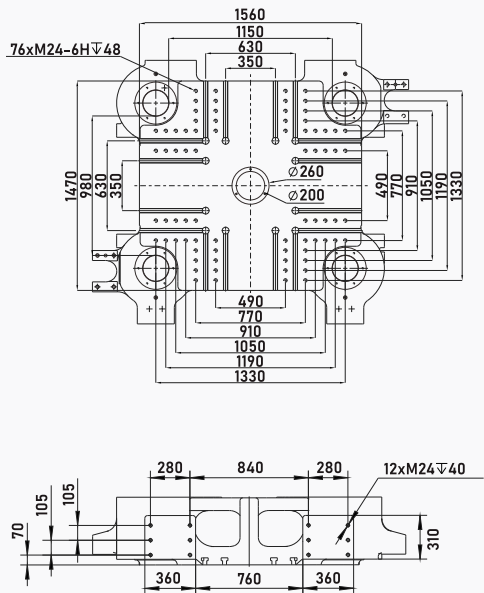
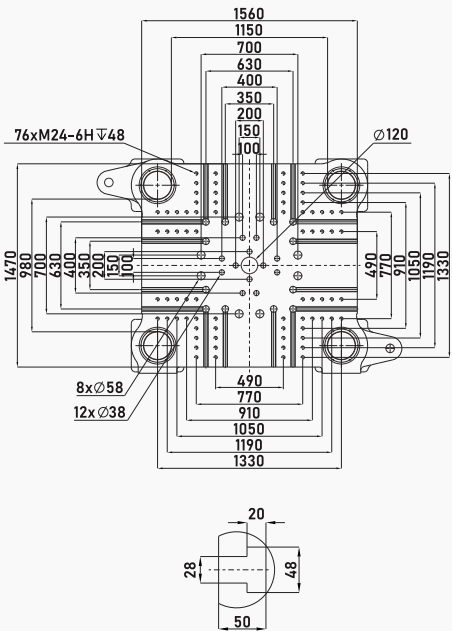
Model	Unit	FA650						FA750					
Injection unit		Optional			Standard			Standard			Optional		
injection system		3500			5000			5000			7400		
Injection weight (PS)	g	1527	1737	2199	2271	2546	3143	2271	2546	3143	2893	3572	4322
Screw diameter	mm	75	80	90	85	90	100	85	90	100	90	100	110
Injection volume	cm³	1678	1909	2416	2496	2798	3454	2496	2798	3454	3179	3925	4749
Injection pressure	Mpa	210	185	146	204	182	147	204	182	147	235	191	158
Screw L/D ratio	L/D	24	23	20	24	22	20	24	22	20	24	22	20
Injection rate	cm³/s	586	678	858	615	690	852	715	802	990	619	765	925
Screw speed	r/min	145			130			130			115		
Hopper capacity	L	125			150			150			150		
Clamping unit													
Clamping force	kN	6500						7500					
Mold height (min.-max.)	mm	400-950						450-950					
Max. Opening stroke	mm	1750						1850					
Tie bar distance	mm	1050×910						1150×980					
Ejector stroke	mm	250						300					
Ejector force	kN	195						265					
Others													
Motor power	kW	41.4+47.7						47.7×2					
Max. working pressure	Mpa	17.5						17.5					
Oil tank capacity	L	1100						1250					
Heating capacity	kW	39			45			45			60		
Dimension (L×W×H)	mm	8690×2708×2360						9232×2818×2410					

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
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Platen Dimensions FA650



Platen Dimensions FA750

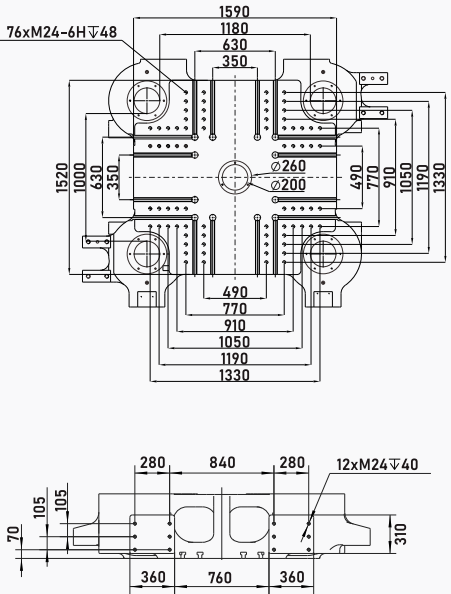
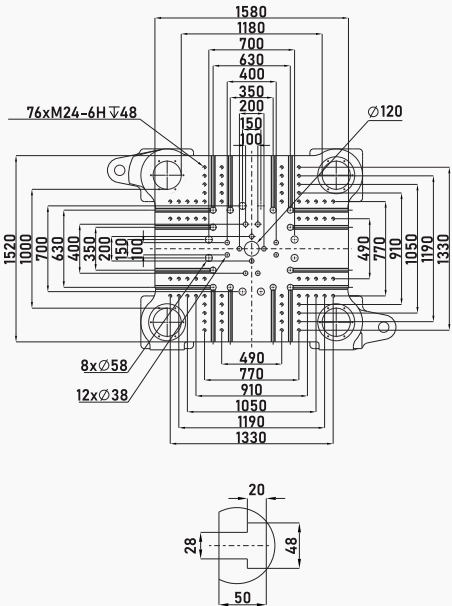


TECHNICAL PARAMETERS

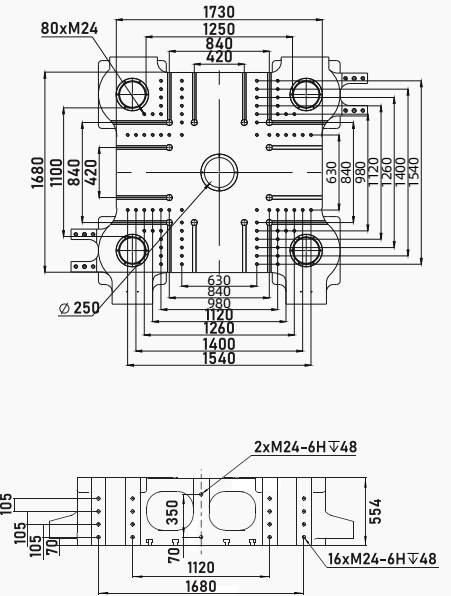
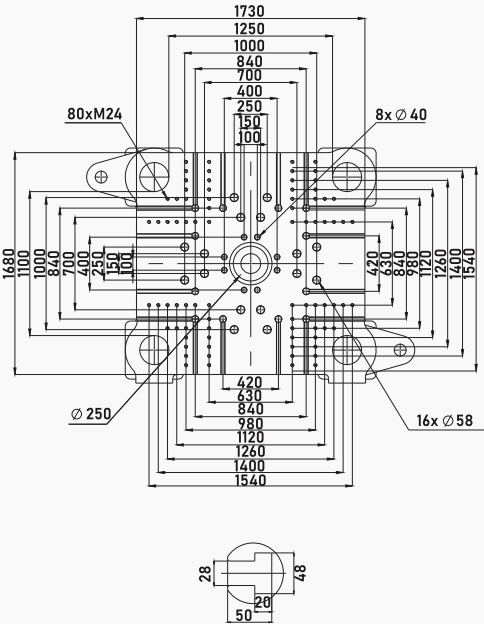
Model	Unit	FA900						FA1000		
Injection unit		Standard			Optional			Optional	Standard	Optional
injection system		7400			9200			9200		
Injection weight (PS)	g	2893	3572	4322	3929	4754	5658	3929	4754	5658
Screw diameter	mm	90	100	110	100	110	120	100	110	120
Injection volume	cm³	3179	3925	4749	4318	5224	6217	4318	5224	6217
Injection pressure	Mpa	235	191	158	214	177	149	214	177	149
Screw L/D ratio	L/D	24	22	20	26.5	23.8	22	26.4	24	22
Injection rate	cm³/s	744	918	1111	816	988	1175	857	1037	1234
Screw speed	r/min	115			110			110		
Hopper capacity	L	150			150			350		
Clamping unit										
Clamping force	kN	9000						10000		
Mold height (min.-max.)	mm	500-1100						600-1200		
Max. Opening stroke	mm	2100						2400		
Tie bar distance	mm	1180×1000						1250×1100		
Ejector stroke	mm	300						350		
Ejector force	kN	350						350		
Others										
Motor power	kW	41.4×3						41.4×2+47.7		
Max. working pressure	Mpa	17.5						17.5		
Oil tank capacity	L	1500						1700		
Heating capacity	kW	60			80			80		
Dimension (L×W×H)	mm	10194×2928×2500						12038×3460×3569		

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
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Platen Dimensions FA900



Platen Dimensions FA1000

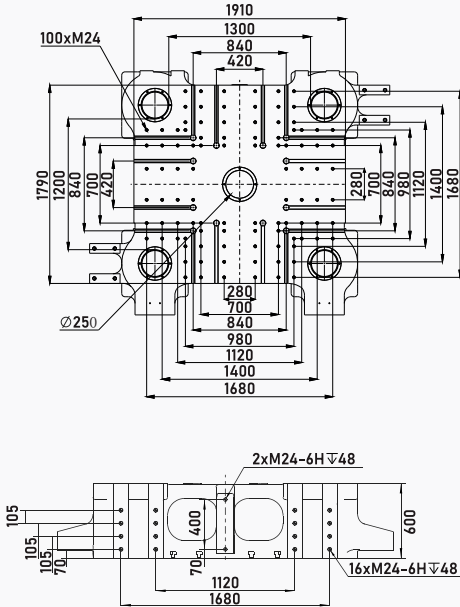
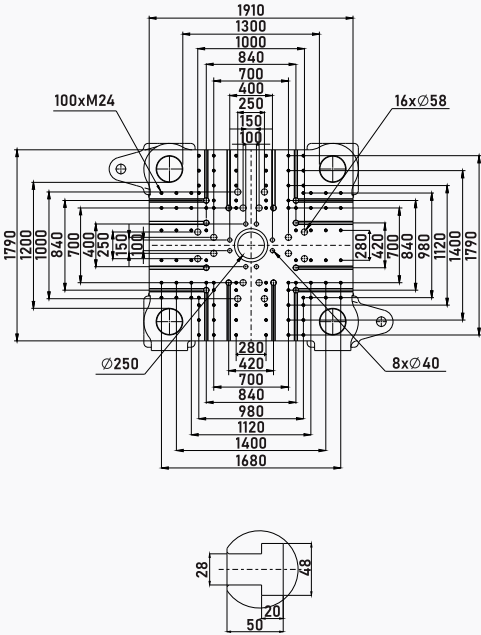


TECHNICAL PARAMETERS

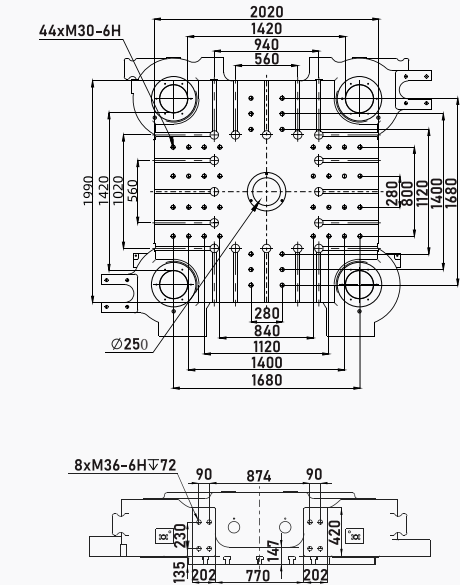
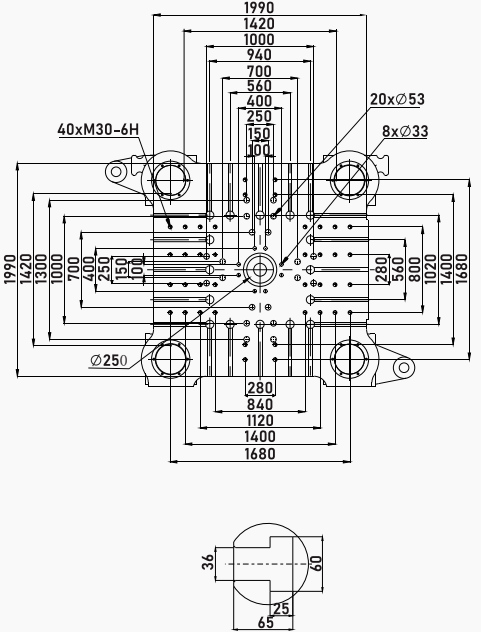
Model	Unit	FA1200			FA1300		
Injection unit		Optional	Standard	Optional	Optional	Standard	Optional
injection system		9200			10100		
Injection weight (PS)	g	3929	4754	5658	4725	6172	7811
Screw diameter	mm	100	110	120	105	120	135
Injection volume	cm³	4318	5224	6217	5193	6782	8584
Injection pressure	Mpa	214	177	149	195	149	118
Screw L/D ratio	L/D	26.4	24	22	25.1	22	19.6
Injection rate	cm³/s	857	1037	1234	945	1234	1562
Screw speed	r/min	110			110		
Hopper capacity	L	350			350		
Clamping unit							
Clamping force	kN	12000			13000		
Mold height (min.-max.)	mm	600-1250			700-1350		
Max. Opening stroke	mm	2700			3000		
Tie bar distance	mm	1300×1200			1420×1420		
Ejector stroke	mm	400			400		
Ejector force	kN	500			500		
Others							
Motor power	kW	41.4×2+47.7			41.4×2+47.7		
Max. working pressure	Mpa	17.5			17.5		
Oil tank capacity	L	1700			1700		
Heating capacity	kW	80			80		
Dimension (L×W×H)	mm	12038×3550×3652			12676×3600×3672		

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
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Platen Dimensions FA1200



Platen Dimensions FA1300

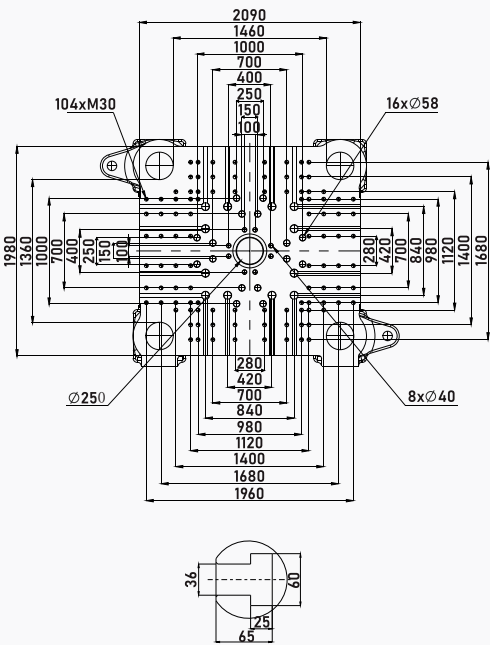


TECHNICAL PARAMETERS

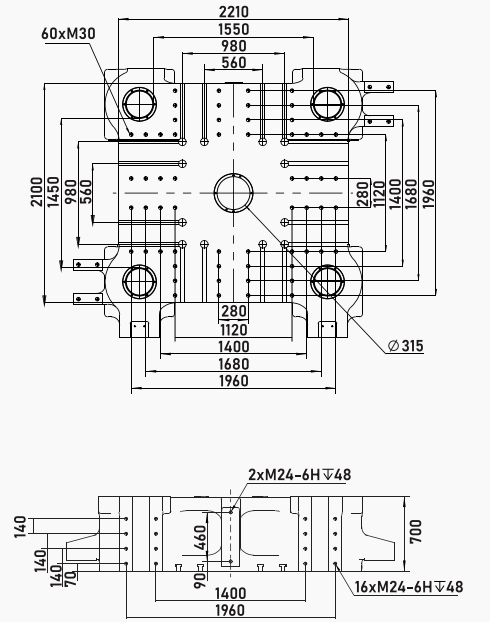
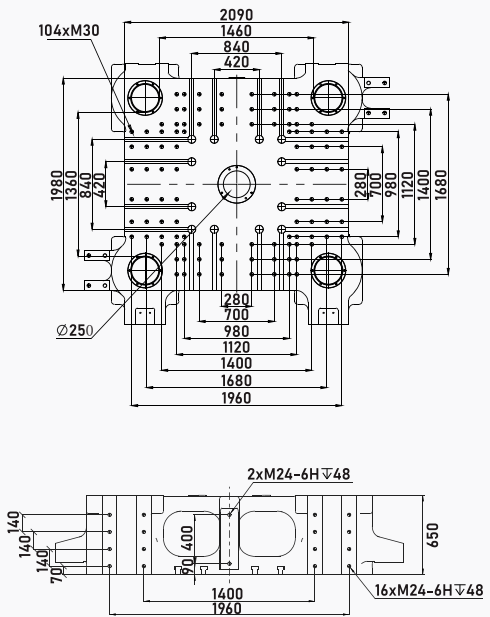
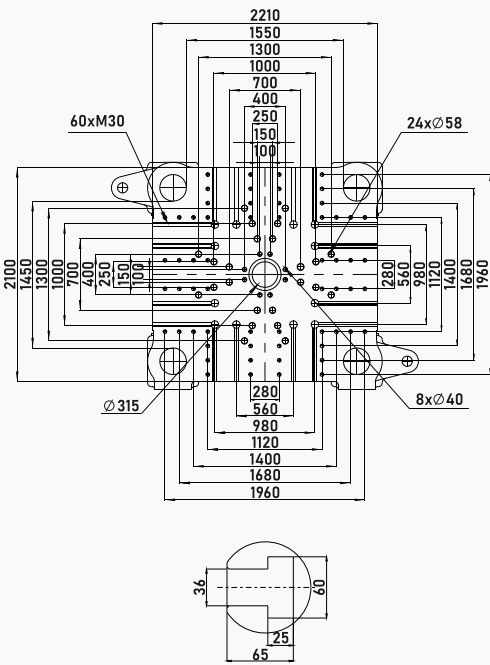
Model	Unit	FA1400			FA1600		
Injection unit		Optional	Standard	Optional	Optional	Standard	Optional
injection system		11900			16400		
Injection weight (PS)	g	5186	6172	7244	7534	8788	10849
Screw diameter	mm	110	120	130	125	135	150
Injection volume	cm³	5699	6782	7960	8279	9657	11922
Injection pressure	Mpa	209	175	150	198	169	137
Screw L/D ratio	L/D	24	22	20.3	23.8	22	19.8
Injection rate	cm³/s	1052	1252	1469	1112	1297	1601
Screw speed	r/min	100			90		
Hopper capacity	L	400			400		
Clamping unit							
Clamping force	kN	14000			16000		
Mold height (min.-max.)	mm	700-1450			700-1550		
Max. Opening stroke	mm	3100			3300		
Tie bar distance	mm	1460×1360			1550×1450		
Ejector stroke	mm	400			450		
Ejector force	kN	500			660		
Others							
Motor power	kW	47.7×3			47.7×3		
Max. working pressure	Mpa	17.5			17.5		
Oil tank capacity	L	1900			1900		
Heating capacity	kW	80			98		
Dimension (L×W×H)	mm	12835×3880×3652			13360×3970×3709		

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
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Platen Dimensions FA1400



Platen Dimensions FA1600

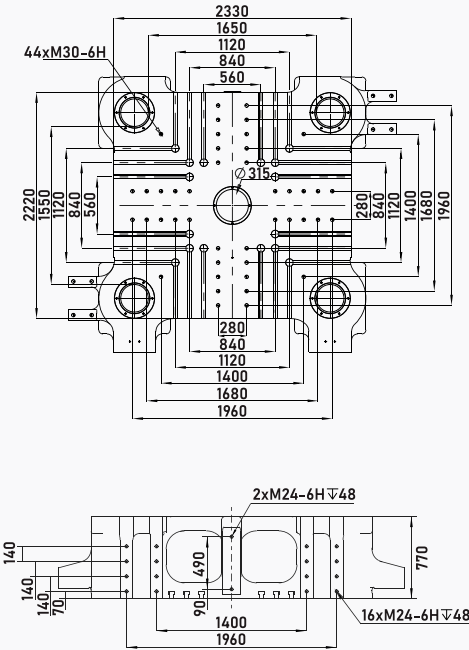
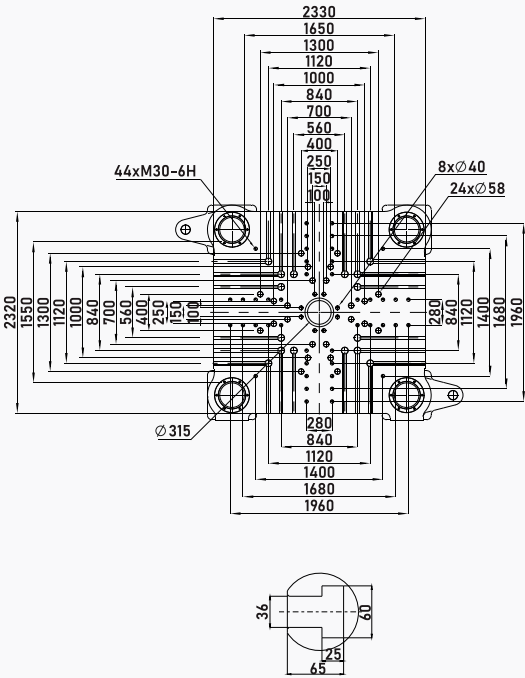


TECHNICAL PARAMETERS

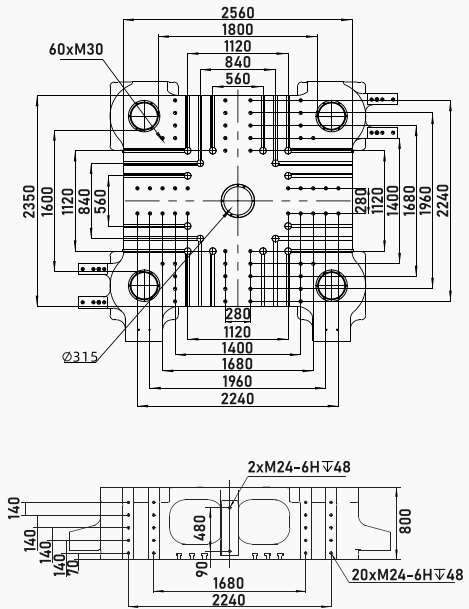
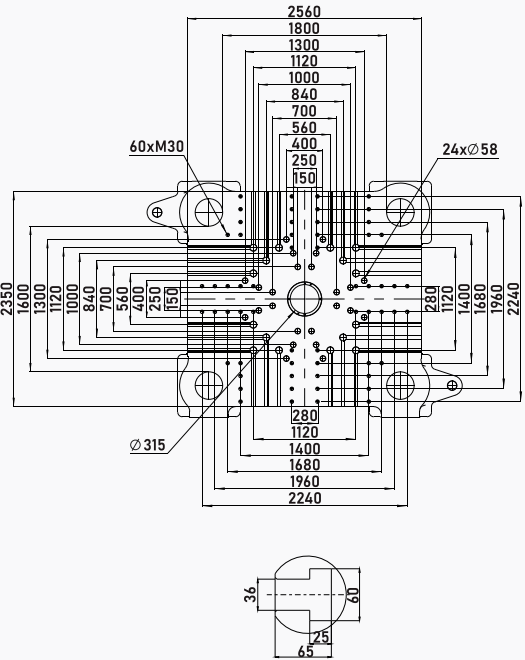
Model	Unit	FA1800			FA2000		
Injection unit		Optional	Standard	Optional	Optional	Standard	Optional
injection system		16400			21000		
Injection weight (PS)	g	7534	8788	10849	9764	12055	16407
Screw diameter	mm	125	135	150	135	150	175
Injection volume	cm³	8279	9657	11922	10730	13247	18030
Injection pressure	Mpa	198	169	137	194	158	116
Screw L/D ratio	L/D	23.8	22	19.8	25.6	23	19.7
Injection rate	cm³/s	1112	1297	1601	1315	1625	2210
Screw speed	r/min	90			85		
Hopper capacity	L	400			400		
Clamping unit							
Clamping force	kN	18000			20000		
Mold height (min.-max.)	mm	750-1600			800-1700		
Max. Opening stroke	mm	3400			3600		
Tie bar distance	mm	1650×1550			1800×1600		
Ejector stroke	mm	450			450		
Ejector force	kN	660			660		
Others							
Motor power	kW	47.7×3			47.7×4		
Max. working pressure	Mpa	17.5			17.5		
Oil tank capacity	L	1900			3000		
Heating capacity	kW	98			140		
Dimension (L×W×H)	mm	13403×4270×3791			15016×4440×4058		

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
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Platen Dimensions FA1800



Platen Dimensions FA2000

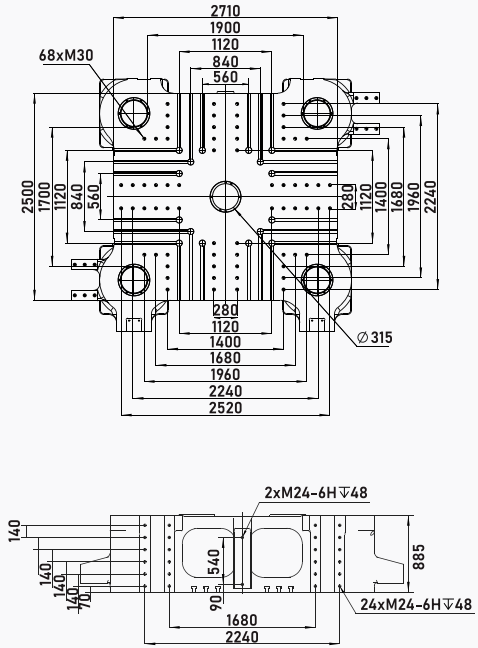
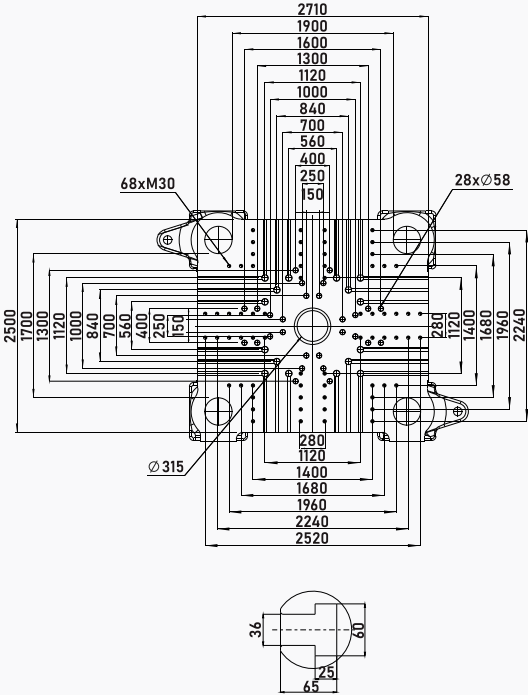


TECHNICAL PARAMETERS

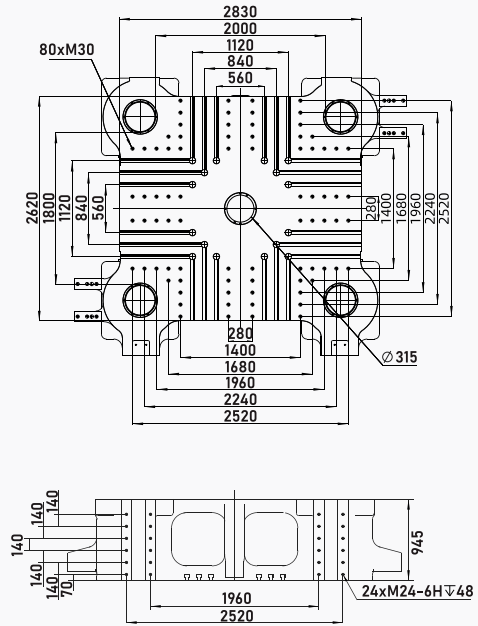
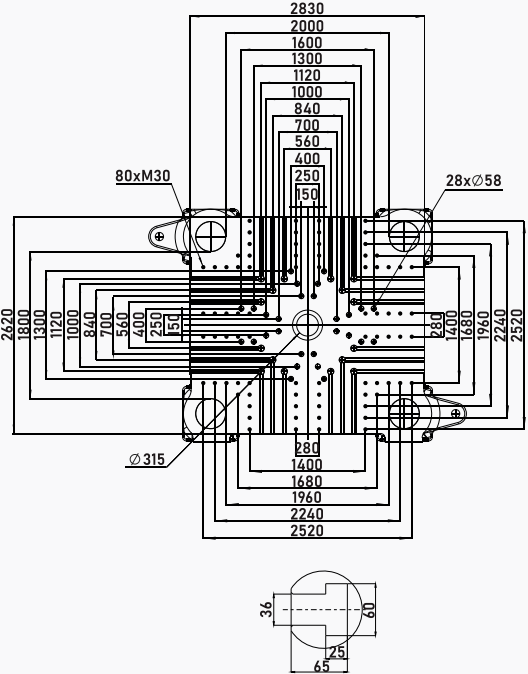
Model	Unit	FA2500 (single-cylinder)			FA2500 (double-cylinder)			FA3000		
Injection unit		Optional	Standard	Optional	Optional	Standard	Optional	Optional	Standard	Optional
injection system		38000			41000			52000		
Injection weight (PS)	g	21320	23830	27850	22970	25670	30010	28110	32860	39760
Screw diameter	mm	175	185	200	175	185	200	185	200	220
Injection volume	cm³	23430	26190	30610	25240	28210	32970	30895	36110	43690
Injection pressure	Mpa	160	144	123	162.9	145	124.7	170	146	120
Screw L/D ratio	L/D	23.3	22	20.4	25.1	23.7	22	24.9	23	20.9
Injection rate	cm³/s	1750	1960	2290	1790	2000	2330	2096	2449	2964
Screw speed	r/min	75			75			55		
Hopper capacity	L	400			400			400		
Clamping unit										
Clamping force	kN	25000			25000			30000		
Mold height (min.-max.)	mm	800-1800			800-1800			900-1900		
Max. Opening stroke	mm	3800			3800			4100		
Tie bar distance	mm	1900×1700			1900×1700			2000×1800		
Ejector stroke	mm	550			550			550		
Ejector force	kN	660			660			660		
Others										
Motor power	kW	47.7×4			47.7×4			47.7×3+58.6×2		
Max. working pressure	Mpa	17.5			17.5			19		
Oil tank capacity	L	3500			3500			4000		
Heating capacity	kW	152			179			195		
Dimension (L×W×H)	mm	17088×4610×4066			15971×4610×4111			17555×4820×4652		

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
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Platen Dimensions FA2500



Platen Dimensions FA3000

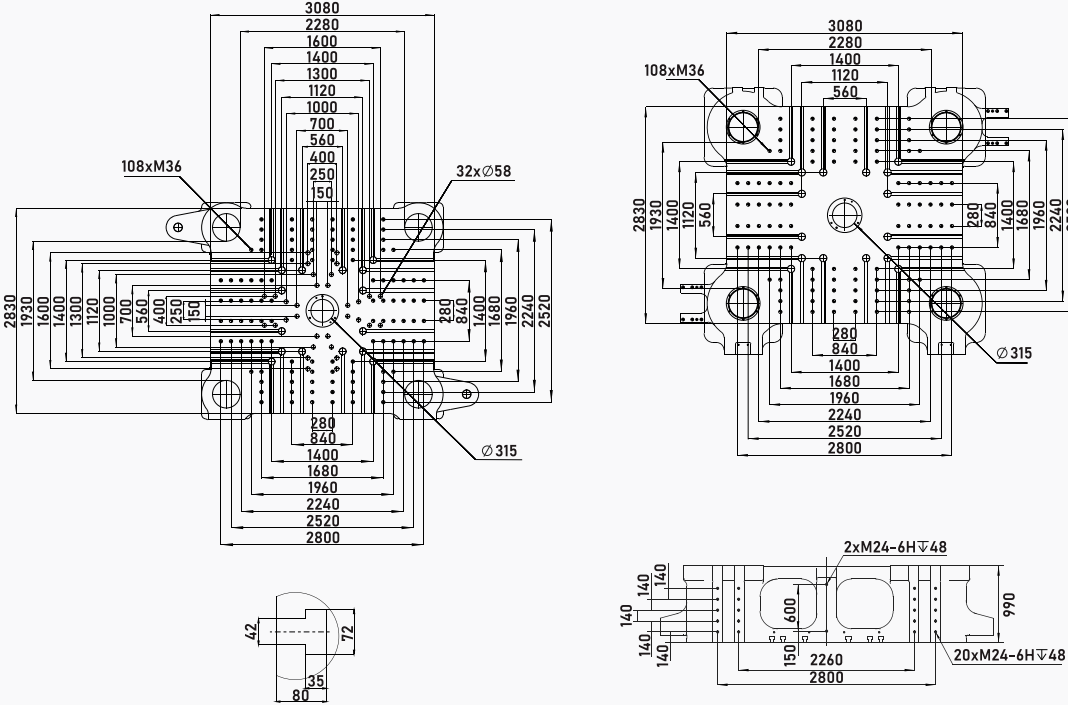


TECHNICAL PARAMETERS

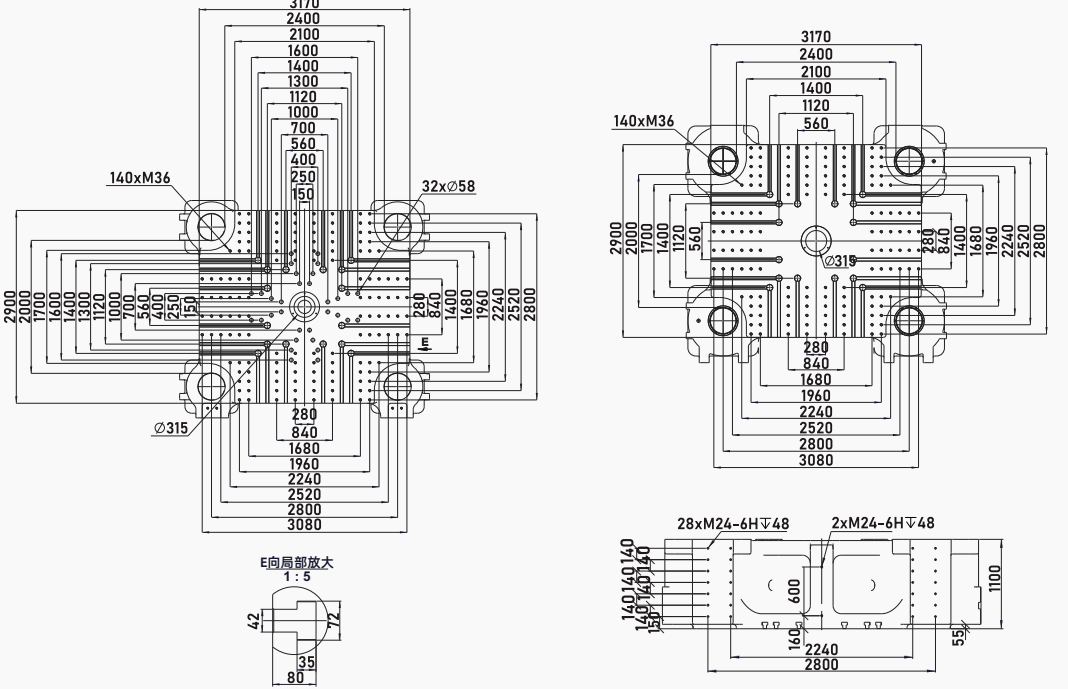
Model	Unit	FA3500			FA4000	FA4500
Injection unit		Optional	Standard	Optional		
injection system			63000		85000	85000
Injection weight (PS)	g	34285	41489	49375	51041	55576
Screw diameter	mm	200	220	240	230	240
Injection volume	cm³	37680	45590	54255	56089	61073
Injection pressure	Mpa	169	140	118	152.4	140
Screw L/D ratio	L/D	24.2	22	20.2	24	23
Injection rate	cm³/s	2130	2580	3070	2870	3125
Screw speed	r/min		50		45	45
Hopper capacity	L		400		600	600
Clamping unit						
Clamping force	kN		35000		40000	45000
Mold height (min.-max.)	mm		1000-2200		1000-2200	1000-2200
Max. Opening stroke	mm		4200		4500	4500
Tie bar distance	mm		2280×1930		2400×2000	2400×2000
Ejector stroke	mm		550		550	550
Ejector force	kN		660		660	660
Others						
Motor power	kW		47.7×5		47.7x5+57.8	47.7x5+57.8
Max. working pressure	Mpa		17.5		19.5	21
Oil tank capacity	L		4000		4200	4200
Heating capacity	kW		206		234	234
Dimension (L×W×H)	mm		18125×5210×4742		18035×6060×4685	18035×6060×4685

1. The dimension of the machine will change according to the combination of clamping unit and injection unit. The above dimensions are for reference only.
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Platen Dimensions FA3500



Platen Dimensions FA4000/FA4500

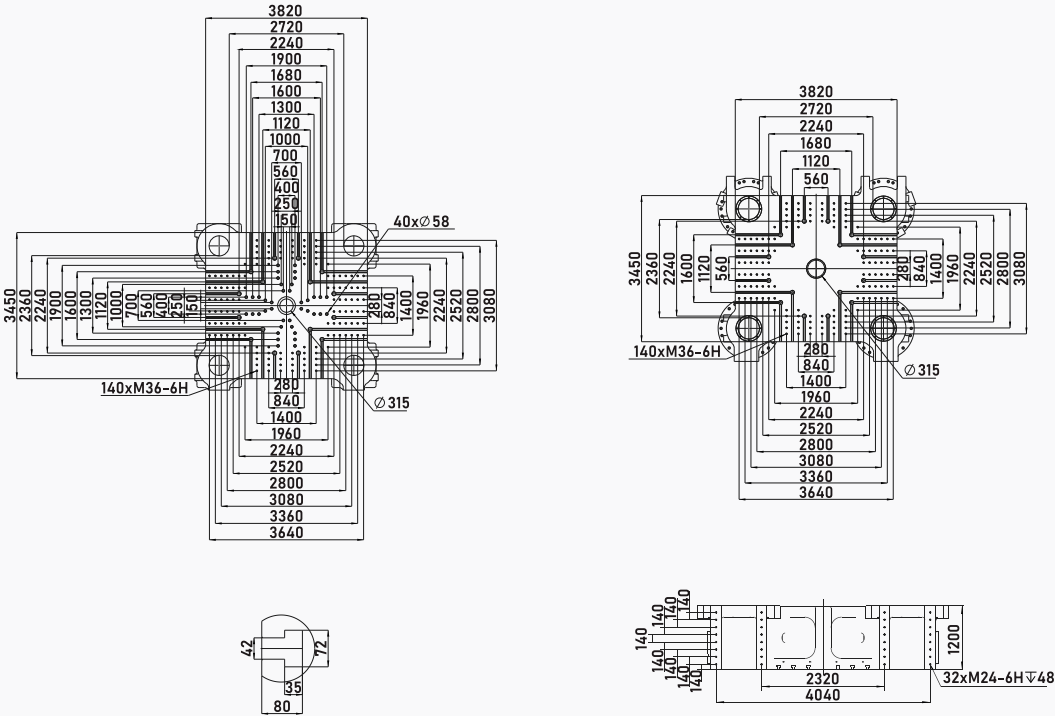


TECHNICAL PARAMETERS

Model	Unit	FA6000	FA7000
Injection unit			
injection system		133000	133000
Injection weight (PS)	g	83777	83777
Screw diameter	mm	275	275
Injection volume	cm³	92063	92063
Injection pressure	Mpa	144	144
Screw L/D ratio	L/D	23	23
Injection rate	cm³/s	3538	3538
Screw speed	r/min	45	45
Hopper capacity	L	600	600
Clamping unit			
Clamping force	kN	60000	70000
Mold height (min.-max.)	mm	1200-2400	1500-3550
Max. Opening stroke	mm	5000	6800
Tie bar distance	mm	2720×2360	3250×2600
Ejector stroke	mm	650	1000
Ejector force	kN	800	800
Others			
Motor power	kW	47.7×5+58.6×2	47.7×5+58.6×2
Max. working pressure	Mpa	19.5	19.5
Oil tank capacity	L	6000	7200
Heating capacity	kW	431	431
Dimension (L×W×H)	mm	22178×6530×5157	26500×7500×6500

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Platen Dimensions FA6000

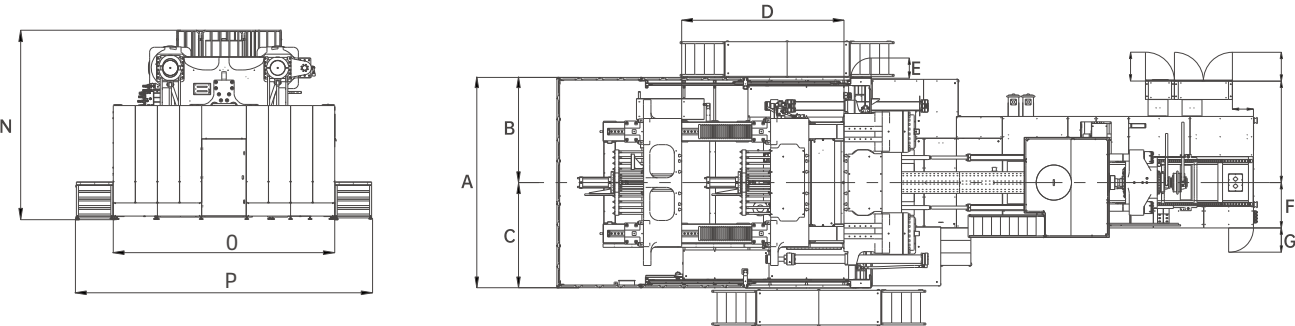


Unit: mm							
	Project	Model	FA450	FA550	FA650	FA750	FA900
	Injection nozzle spherical size	SR	15	15	15	15	20
	Standard nozzle protrusion length from fixed platen	L	50	50	50	50	50
	Extended nozzle protrusion length from fixed platen	L'	100	100	100	100	100

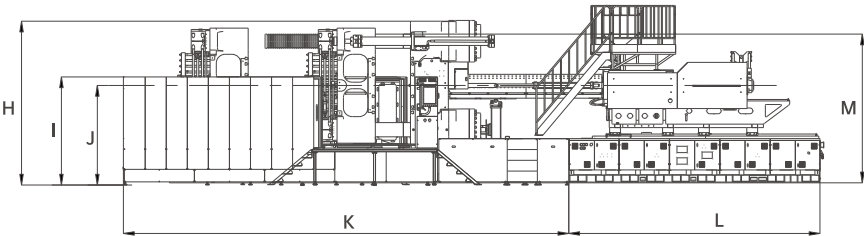
Unit: mm

	Project	Model	FA1000-FA6000	FA7000
	Injection nozzle spherical size	SR	20	20
	Standard nozzle protrusion length from fixed platen	L	50	50
	Extended nozzle protrusion length from fixed platen	L'	150	200

MACHINE DIMENSIONS



Part	A	B	C	D	E	F	G	H
FA450	2308	1154	1154	1650	\	745	645	2260
FA550	2428	1214	1214	1750	\	745	645	2310
FA650	2708	1354	1354	1750	\	787	645	2360
FA750	2818	1409	1409	1850	\	787	645	2410
FA900	2928	1464	1464	2100	\	787	645	2500
FA1000	3460	1730	1730	2400	580	830	728	2810
FA1200	3550	1775	1775	2700	580	830	728	2865
FA1300	3600	1800	1800	3000	580	830	728	3050
FA1400	3880	1940	1940	3100	580	830	728	2970
FA1600	3970	1985	1985	3300	580	830	728	3095
FA1800	4270	2135	2135	3400	580	830	728	3282
FA2000	4440	2220	2220	3600	580	979	728	3482
FA2500 (single-cylinder)	4610	2305	2305	3800	580	979	728	3642
FA2500 (double-cylinder)	4610	2305	2305	3800	580	1177	618	3642
FA3000	4820	2410	2410	4100	540	1177	618	3960
FA3500	5210	2605	2605	4200	540	1177	618	4207
FA4000/FA4500	5160	2580	2580	4500	580	1090	625	4345
FA6000	6530	3265	3265	5000	540	1305	618	5327



Part	I	J	K	L	M	N	O	P
FA450	2170	1530	4575	3330	2085	\	\	\
FA550	2234	1530	4684	3330	2130	3226	\	\
FA650	2218	1530	4710	3980	2155	3246	\	\
FA750	2306	1530	5252	3980	2120	3246	\	\
FA900	2306	1575	5568	4626	2275	3311	\	\
FA1000	2493	1840	6538	5500	2608	3660	3460	4375
FA1200	2493	1840	6538	5500	2688	3660	3550	4465
FA1300	2503	1840	7176	5500	2872	3660	3600	4515
FA1400	2503	1840	7335	5500	2770	3680	3880	4795
FA1600	2503	1900	7860	5500	2882	3766	3970	4886
FA1800	2514	2017	7903	5500	3062	3882	4270	5186
FA2000	2508	2152	8176	6840	3242	4058	4440	5356
FA2500 (single-cylinder)	2514	2212	9758	6800	3372	4378	4610	5526
FA2500 (double-cylinder)	2514	2212	9387	6584	3372	4203	4610	5526
FA3000	2644	2432	10957	6598	3672	4652	4820	6652
FA3500	2644	2522	11526	6598	3765	4742	5210	7042
FA4000/FA4500	2490	2605	10800	7235	3925	4685	5160	6060
FA6000	2739	3147	14060	7938	4787	5247	6530	8362