

LKIMM



POTENZA-III SERIES

ENERGY SAVING AND HIGH PRECISION SERVO INJECTION MOLDING MACHINE

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LK INJECTION MOLDING MACHINE

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Energy Saving and High Precision Servo Injection Molding Machine



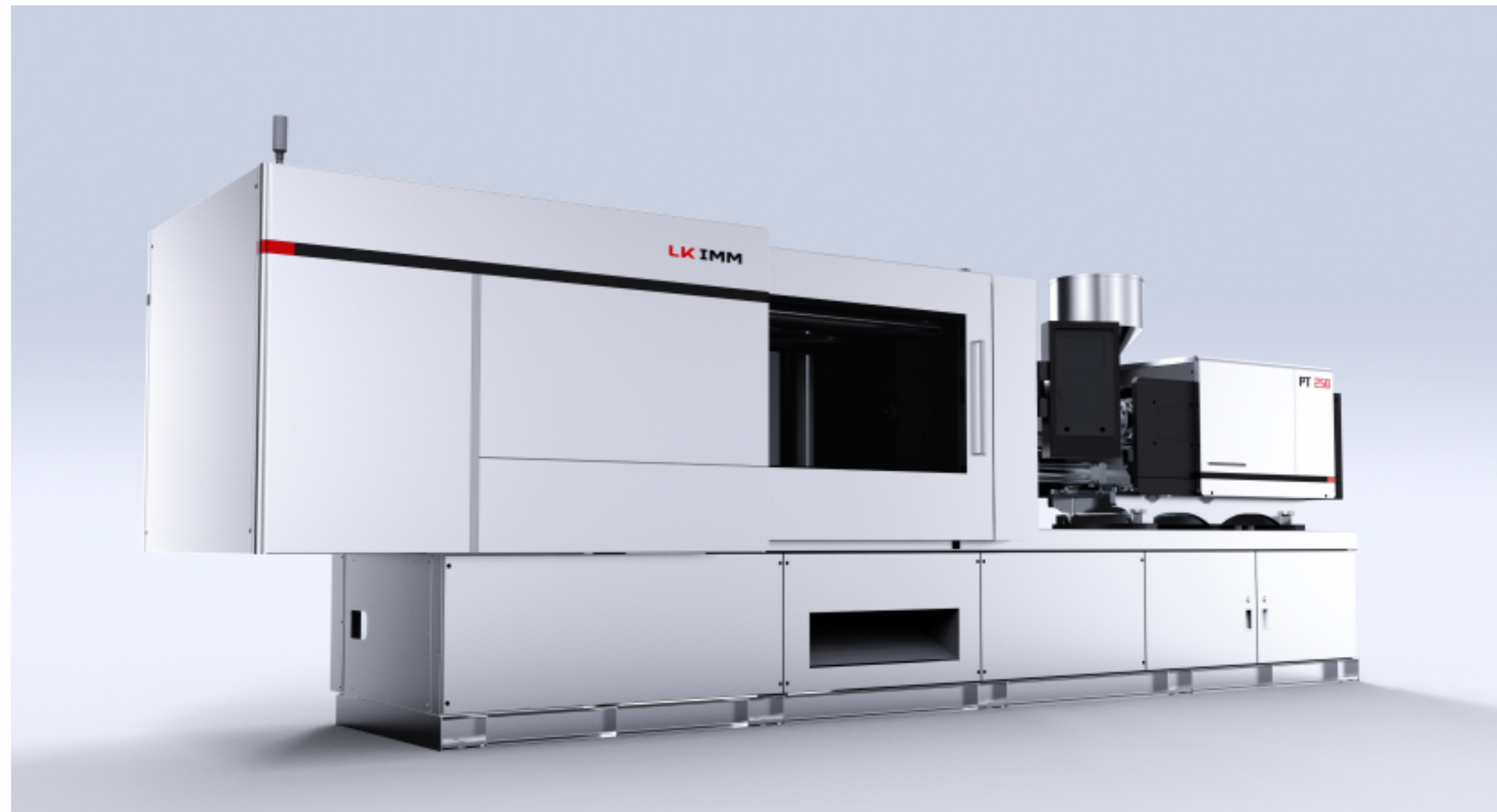
Reliable and stable



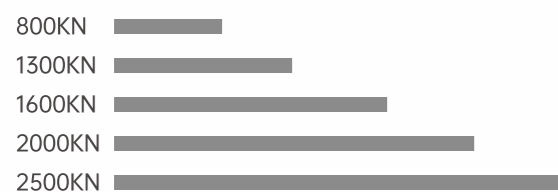
Efficient and flexible



Energy saving and environmental protection



Potenza-III Clamping Force



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.

Clamping Unit

Highly optimized clamping unit.

High rigidity, can fulfill 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.

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

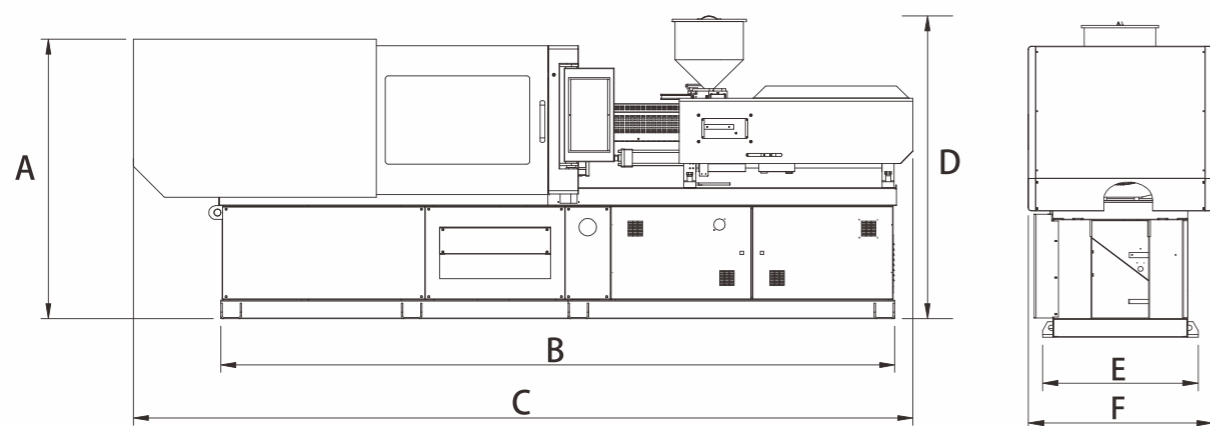
Item	Unit	PT80-III			PT130-III		
Injection unit		Optional	Standard	Optional	Optional	Standard	Optional
Injection weight (PS)	g	103	140	183	175	228	289
	oz	3.6	4.9	6.5	6.2	8.1	10.2
Screw diameter	mm	30	35	40	35	40	45
Injection volume	cc	113	154	201	192	251	318
Injection pressure	MPa	236	174	133	228	174	138
Injection rate	cc/s	79	107	141	103	134	169
Screw L/D ratio		23	20	18	23	20	20
Screw stroke	mm	160			200		
Screw rpm	rpm	252			235		
Plasticizing capacity (Max.)	kg/h	38	50	63	47	60	81
Nozzle stroke	mm	230			280		
Hopper capacity	L	45			50		
Clamping unit							
Clamping force	kN	800			1300		
Mould thickness (Min.-Max.)	mm	150-380			150-450		
Maximum daylight	mm	700			810		
Opening stroke	mm	320			360		
Space between tie bars (HxV)	mm	361X361			411X411		
Platen size (HxV)	mm	534X534			615X615		
Ejector stroke	mm	100			120		
Ejector force	kN	34			34		
No. of ejector pin		5			5		
Others							
Pump motor power	kW	14			16		
System pressure	MPa	17.5			17.5		
Oil tank capacity	L	164			186		
Heating capacity	kW	5.13			7.67		
Temp. control zones		3+N			3+N		
Machine dimensions (LxWxH)	mm	4255x1008x1730			4707x1070x1820		
Machine weight	kg	3200			4300		

Remarks: Actual plasticizing capacity = 80% of plasticizing capacity

PT160-III			PT200-III			PT250-III		
Optional	Standard	Optional	Optional	Standard	Optional	Optional	Standard	Optional
236	299	369	318	393	475	468	566	673
8.3	10.6	13	11.2	13.9	16.8	16.5	20	23.8
40	45	50	45	50	55	50	55	60
260	329	406	350	432	522	514	622	740
228	180	146	230	186	154	219	181	152
128	162	200	163	201	243	214	258	307
23	20	18	22	20	18	22	20	18
207			220			262		
221			215			198		
63	83	104	91	115	141	112	138	163
300			320			360		
50			60			60		
1600			2000			2500		
180-520			200-550			200-580		
950			1040			1120		
430			490			540		
471X471			531X531			581X581		
691X691			772X772			862X862		
140			140			150		
34			67			67		
5			9			9		
17.3			22			31		
17.5			17.5			17.5		
256			362			469		
9.32			11.04			13.04		
3+N			3+N			4+N		
5295x1136x1860			5848x1250x1977			6376x1348x2132		
5200			6600			8200		

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

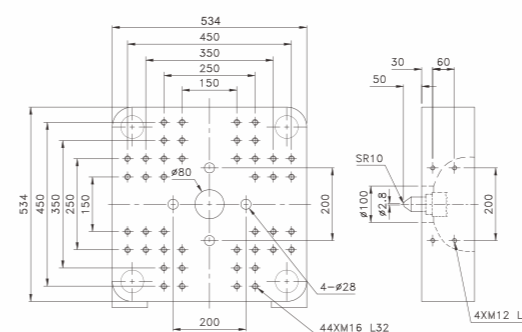
PLATEN DIMENSIONS



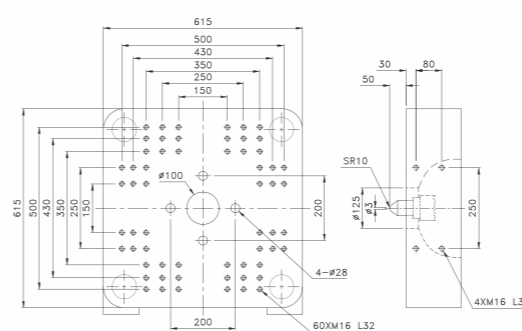
型号	A	B	C	D	E	F
PT80-III	1582	3720	4255	1730	832	1008
PT130-III	1663	3920	4707	1820	874	1070
PT160-III	1717	4320	5295	1860	940	1136
PT200-III	1836	4731	5848	1977	1050	1250
PT250-III	1998	5135	6376	2132	1110	1348

MACHINE DIMENSIONS

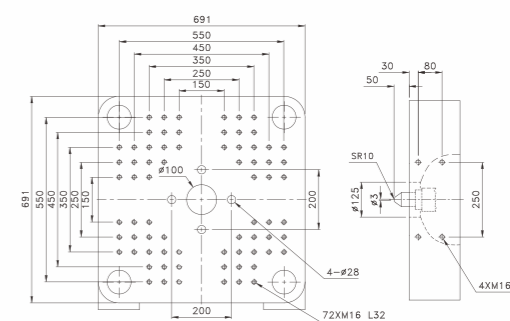
PT80-III



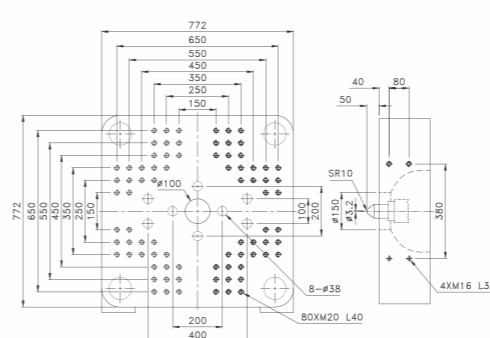
PT130-III



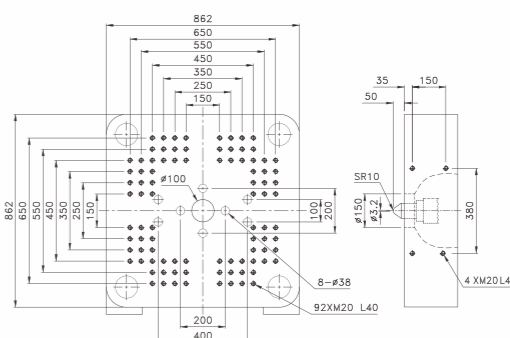
PT160-III



PT200-III



PT250-III



STANDARD FEATURES

Injection unit

- Nitride treatment screw assembly
- Double hydraulic injection cylinder
- Injection unit equipped with linear transducer
- Sliding hopper base
- Fully enclosed sheetmetal
- Nozzle safety cover
- Double layer barrel protection cover

Hydraulic unit

- Hydraulic oil cleaning function
- Heat exchanger
- Oil temperature and oil level indicator
- Quick clamping function
- Off-line filtration
- Mold open with back-pressure control (PT200-250 only)

Clamping unit

- Toggle clamping mechanism
- Volumetric lubrication system
- Gear-type hydraulic mold height adjustment
- Clamping/ejector linear transducer
- Electromechanical safety interlock
- Platen with mounting hole
- Ejector cylinder with push-pull function

Control unit

- Voltage/frequency: 380/50Hz
- Emergency stop button
- PID temperature controller
- Maintenance alarm
- Suck back function
- Auto purge function
- Production monitor function
- Working schedule display function
- Selectable suck-back before or after plasticizing
- Cold start protection to prevent injection screw from damage

Others

- Tool with toolbox
- Mold clamp

OPTIONAL FEATURES

Injection unit

- Bimetallic screw and barrel
- Extended nozzle
- Material measuring device
- Enlarged hydraulic motor
- Injection pressure sensor
- Ceramic heating system
- Electromagnetic heating system
- Infrared nano heating system

Hydraulic unit

- Oil level protection
- Enlarged oil cooler
- Independent oil temperature control
- Cooling water distributor
- Oil temperature display and alarm function
- Enlarged hydraulic motor and oil pump (PT80-200 only)

Clamping unit

- Air blow device
- Unscrewing device
- Core pull device
- Special mold flange (locating ring)
- Mold cooling water distributor
- T-slot platen
- Non-metric clamp hole
- Extended mold thickness
- Mold open with back pressure control (PT80 - Pt160 only)
- Mechanical safety lock

Control unit

- Power socket
- KEBA KePlast EasyNet
- Extra waterproof socket
- KEBA controller
- Heating controller by solid state relay

Others

- Conveyor
- Hopper magnet
- Hopper dryer
- Chiller
- Blender
- Auto loader
- Material crusher
- Eyebolt rack (PT80-200)
- Mold temperature controller