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CHEN HSONG

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CH 20260410-CV

CHEN HSONG

MK7 Series

High-Performance Precision Toggle Injection Molding Machines

MK7max, MK7S

SINCE 1968

CHEN HSONG

Powering Your Future in Intelligent Injection Molding

Driven by its founding principle, “Your Vision is Our Mission”, the Chen Hsong Group, established in 1958 and publicly listed in Hong Kong since 1991, has evolved over nearly 70 years from an injection molding machine manufacturer into a one-stop total solutions provider in plastics manufacturing. As one of the world's largest producers of injection molding machines, Chen Hsong achieves unmatched quality through complete in-house manufacturing. This vertically integrated approach means controlling everything from ductile iron castings, parts fabrication and core components (such as advanced controllers) to final assembly. With a comprehensive product matrix serving diverse industries like automotive and medical, we are also spearheading smart manufacturing upgrades through the iChen™ Smart Family Suite, including the iChen™ Smart Factory MES, iChen™ Cloud platform, and iChen™ AI Molder, making the path to Industry 4.0 easily accessible for our global clientele.

1,000,000m²
R&D and Production Facilities (Five locations)

85+
Countries Globally

1,000,000+
Injection Molding Machines in the Field

Hong Kong Headquarters


Shenzhen Industrial Park Facility ——— 560000m²


Taiwan Taoyuan Facility ——— 30000m²


Foshan Shunde - Two Facilities ——— 150000m²


Zhejiang Ningbo Facility ——— 70000m²


Shanwei Luhe Facility ——— 62360m²

Over 1 Million+ Chen Hsong Machines Are in Operation Worldwide.

They all use Chen Hsong.

MK7 Series | Advanced Servo Injection Toggle Injection Molding Machine

Precision Performance Powered by AI Intelligence

The MK7 is our flagship series, engineered to slash energy costs while maximising production agility. This premium line integrates high-response servo technology with proprietary AI controls for unrivaled repeatability. It is the ultimate high-performance solution for smart factories demanding elite precision and future-proof digital integration.

MK7S

Toggle Machine Precision Servo Injection Molding Machine with eDrive™
(88-1850T)

MK7max

Toggle Machine Precision Servo Injection Molding Machine
(88-668T)

MK7 Series | MK7max
Servo Precision Toggle Injection Molding Machine

Seeking Stability, Precision, and Durability?

The MK7max Series: Your Premier **Stability-Centric** Upgrade

Engineered for the demanding general-purpose market where quality and consistency are paramount. Every machine is built to deliver uncompromised precision and rock-solid reliability, shot after shot.

High-Precision Control, Premium Configuration (Optional)

Equipped with a large 12-inch touchscreen and proportional valve control.
Product weight repeatability: < 3‰
Opening accuracy: within ±0.2mm

Outstanding Energy Efficiency & Cost-Performance

Delivers high performance with significantly lower power consumption than competitors.

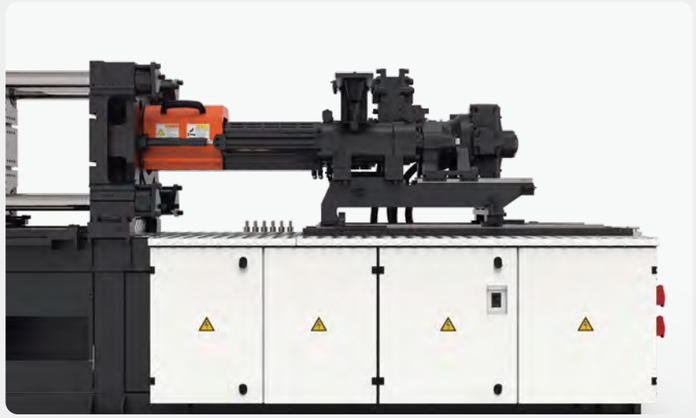
Maximum Versatility for Various Applications

Industry-leading injection and clamping force specifications. Broad mold compatibility handles complex and variable production orders with ease.

■ Applications: Ideal for general-purpose applications that demand extreme stability and precision, including automotive parts, home appliances, and daily necessities.

MK7 Series | MK7max

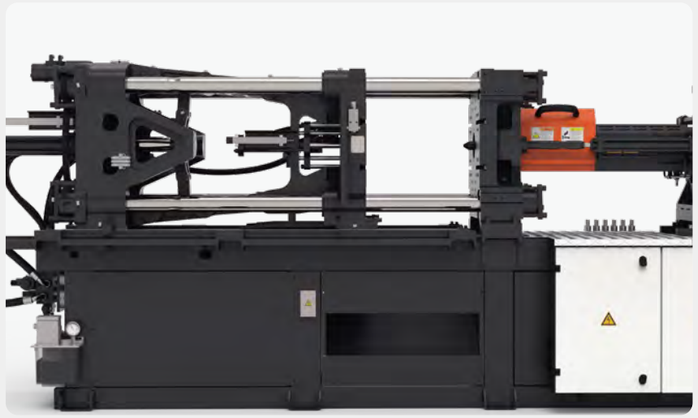
01 Premium Configuration



① High-Efficiency Plasticising: New chrome plated mixing screw ensures uniform melt and stable output.

② Enhanced Motion Control: Upgraded proportional valves for smooth, high-precision mold cycling.

02 Superior Specifications



① Industry-Leading Parameters: Industry-leading specs accommodate larger molds and diverse production runs.

② Flexible Capcity: Optimised for multi-order environments and varying product types.

03 High-Performance Engineering

① Rigid Machine Frame: High-rigidity frame and patented platens ensure vibration-free operation.

② Precision Repeatability: Advanced controls achieve < 3‰ weight consistency and ±0.2mm precision.

04 Luxury Intelligent Control

① Smart Connectivity: Responsive 12-inch touchscreen with built-in IoT for smart factories.

② Dual-Loop Thermal Control: Dual-loop temperature control ensures process stability and molding accuracy.

MK7max | Specifications

	UNIT	JM88-MK7max			JM128-MK7max			JM168-MK7max			JM208-MK7max			JM258-MK7max			JM288-MK7max			JM328-MK7max			JM358-MK7max			JM398-MK7max			JM468-MK7max			JM568-MK7max			JM668-MK7max		
INJECTION UNIT		330			500			700			1000			1550			1550			2200			2200			3100			4150			4150			5400		
Screw Diameter	mm	31	36	41	36	41	46	41	46	52	46	52	60	52	60	67	52	60	67	60	67	75	60	67	75	67	75	83	75	83	90	75	83	90	83	90	98
Screw L/D		24.4	21	18.4	23.9	21	18.7	23.6	21	18.6	23.7	21	18.2	24.2	21	18.8	24.2	21	18.8	23.5	21	18.8	23.5	21	18.8	23.5	21	19	23.2	21	19.4	23.2	21	19.4	23.9	22	20.2
Theoretical Injection Capacity	cm^3	135	183	237	208	270	340	303	382	488	431	551	734	636	847	1057	636	847	1057	946	1180	1479	946	1180	1479	1321	1655	2027	1832	2244	2638	1832	2244	2638	2433	2861	3392
Injection Shot Weight	g	123	166	216	189	246	309	276	347	444	393	502	668	579	771	962	579	771	962	861	1074	1346	861	1074	1346	1202	1506	1845	1667	2042	2401	1667	2042	2401	2214	2603	3087
Injection Pressure (Max.)	MPa	250	185	143	243	187	149	236	187	146	242	189	142	250	187	150	250	187	150	239	191	153	239	191	153	235	188	153	228	186	158	228	186	158	223	190	160
Injection Rate (Max.)	cm^3/s	93	126	163	120	156	196	155	195	249	212	271	361	257	343	427	257	343	427	336	419	526	336	419	526	396	496	608	460	564	663	460	564	663	530	623	739
Injection Speed (Max.)	mm/s	124			118			117			127			121			121			119			119			112			104			104			98		
Injection Stroke (Max.)	mm	180			205			230			260			300			300			335			335			375			415			415			450		
Screw Speed (Max.)	rpm	235			235			240			220			220			220			220			220			190			185			185			175		
Nozzle Contact Force (Max.)	kN	42			42			42			42			62			62			62			62			62			62			62			62		
Nozzle Distance (Max.)	mm	270			270			330			330			350			350			400			400			400			450			450			500		
CLAMPING UNIT																																					
Clamping Force (Max.)	kN	880			1280			1680			2080			2580			2880			3280			3580			3980			4680			5680			6680		
Opening Stroke (Max.)	mm	330			370			420			490			530			590			640			660			700			780			845			920		
Platen Dimensions (H×V)	mm	510×510			570×570			670×670			740×740			810×845			860×900			945×945			955×975			1030×1030			1120×1145			1190×1210			1260×1300		
Space Between Tie Bars (H×V)	mm	360×360			410×410			470×470			530×530			580×580			630×630			680×680			710×710			760×710			810×810			855×855			910×900		
Mold Thickness (Min.-Max.)	mm	130-390			145-450			160-520			180-550			195-570			195-630			220-680			220-710			250-730			275-810			330-850			350-900		
Daylight (Max.)	mm	720			820			940			1040			1100			1220			1320			1370			1430			1590			1695			1820		
Ejector Force (Max.)	kN	28			42			42			67			77			77			77			77			111			111			166			182		
Ejector Stroke (Max.)	mm	100			120			140			150			170			170			170			170			220			220			220			265		
No. of Ejectors	PCS	5			5			5			9			13			13			13			13			13			17			17			21		
Locating Ring Diameter	mm	100			100			125			125			125			125			125			160			160			160			160			200		
OTHERS																																					
System Pressure	MPa	17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5		
Motor Rated Power	kW	19			19			27			35			50			50			58			58			67			70			70			83		
Heating Power (Max.)	kW	6.9			10.6			13			16.2			19.7			19.7			25.7			25.7			31.3			36.9			36.9			44.3		
Temperature Control Zone	Zone	3+1			3+1			3+1			3+1			4+1			4+1			4+1			4+1			5+1			5+1			5+1			6+1		
Machine Dimensions (LxWxH)	m	4.4×1.2×1.9			4.7×1.3×2.0			5.3×1.4×2			5.9×1.5×2.1			6.5×1.6×2.3			6.5×1.6×2.3			7.3×1.7×2.4			7.3×1.7×2.4			7.9×1.9×2.3			8.6×1.9×2.3			8.8×1.9×2.3			9.6×2.2×2.4		
Tank Capacity	L	140			170			220			320			380			380			480			480			560			630			630			720		
Machine Weight	kg	2950			3550			4550			6100			7850			7900			10500			11000			13900			17000			19000			24500		

Note: PS density is calculated at 0.91g/cm^3; recommended injection shot weight range is 20%-75%.

• The above technical parameters are reference values under conventional conditions. Actual performance may vary due to different environmental factors during practical application, and parameter performance may be biased. To continuously optimise product experience, adjustments may be made without prior notice. The company reserves the right of final interpretation of this specification sheet.

MK7max | Features

Note: ● Standard, ○ Optional, × Not Available.

		MK7max
INJECTION UNIT	1.Injection Unit With Linear Guide	●
	2.Low Speed High Torque Hydraulic Motor	●
	3.Dual-Cylinder Balanced Injection System	●
	4.Dual Injection Carriage Cylinder	●
	5.Chrome Plated Mixing Screw	●
	6.Digital Back Pressure Control	●
	7.Nozzle Guard and High-Temperature Resistant Barrel Cover	●
	8.Automatic Purging Function	●
	9.Hopper Slider (88-358T)	●
	10.Plasticising Screw RPM Display	●
	11.PID Temperature Control System	●
	12.Nozzle Centering Fine Adjustment Function	●
	13.Extended Nozzle	○
	14.Upsized/Downsized Injection Unit	○
	15.Upsized Hydraulic Motor	○
	16.Barrel Cooling With Solenoid Valve Control	○
	17.Bi-Metallic Barrel	○
	18.Barrel Fan Cooling Device	○
	19.Barrel Energy-Saving Device (Infrared Heater Bands)	○
	20.Manual Lubrication for Injection Unit	○
	21.Hopper	○
	22.Hopper Slider (408-658T)	○

		MK7max
CLAMPING UNIT	1.T-Slot + Mount Hole Mold Platen	●
	2.High-Strength Chrome-Plated Tie Bars	●
	3.High-Strength Platens	●
	4.Hydraulic Gear-Driven Mold Adjustment	●
	5.Automatic Mold Height Adjustment	●
	6.Ejector Rod Pull-Back Mechanism	●
	7.Toggle Automatic Lubrication System	●
	8.Dual Electrical and Hydrauic Protection	●
	9.Adjustable Ejector Retraction Stroke	●
	10.Standard Locating Ring on Fixed Platen	●
	11.Auxiliary Ejector Pin (Half Set, 258~668T)	●
	12.Extended Maximum Mold Height	○
	13.Multiple Sets of Hydraulic Core Pull	○
	14.Multiple Sets of Air-Blow Devices	○
	15.Increased Ejector Force and Ejector Stroke	○
	16.Euromap 18 for Robot Mounting	○
	17.Additionally Installed Mold Insulation Plate	○
	18.Manual Lubrication for Mold Height Adjustment	○

		MK7max
HYDRAULIC SYSTEM	1.Low-Energy Internal Gear Pump	●
	2.High-Performance Hydraulic Control Valve	●
	3.Servo-Driven Flow and Pressure Control	●
	4.Low-Pressure Mold Protection Function	●
	5.Oil Suction and Bypass Oil Filter Device	●
	6.High-Efficiency Oil Cooler	●
	7.Proportional Directional Valve for Mold Opening	●
	8.Closed-Loop Oil Temperature Control and Monitoring	●
	9.Oil Level Indicator	●
	10.Upsized Cooler	○
	11.Low Oil Temperature Alarm	○
	12.Unscrewing Function	○
	13.Upsized Servo Oil Pump Motor	○
	14.Hydraulic Oil Pre-Heating System	○
	15.A dedicated hydraulic circuit for molding extra-thick parts	○

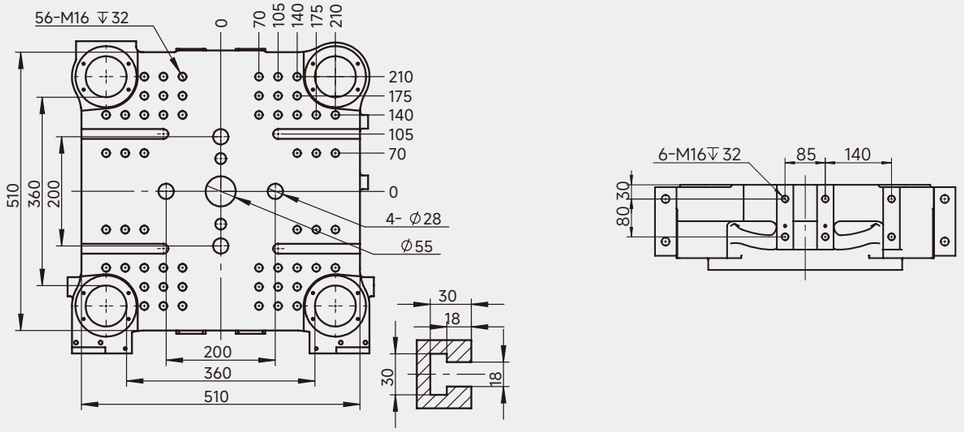
		MK7max
CONTROLLER	1.12-Inch Touchscreen Computer	●
	2.High-Response Servo Drive	●
	3.Temperature Sensing Wire Break Detection	●
	4.Cold Material Start-Up Protection	●
	5.Multiple Power Sockets (Right Side of Servo Cabinet)	●
	6.Front and Back Safety Door Emergency Stop Switch	●
	7.Tri-Colour Alarm	●
	8.National Standard Robot Interface	●
	9.Automatic Temperature Retention and Heating Settings	●
	10.Multiple Languages	●
	11.Process Parameter Locking Function	●
	12.Robot Interface Euromap 67 / Euromap 12	○
	13.Hot Runner Interface	○

		MK7max
OTHERS	1.Toolbox and Wearing Parts	○
	2.Level Pad	○
	3.Mold Clamping Plates	○
	4.Dryer and Other Equipments	○

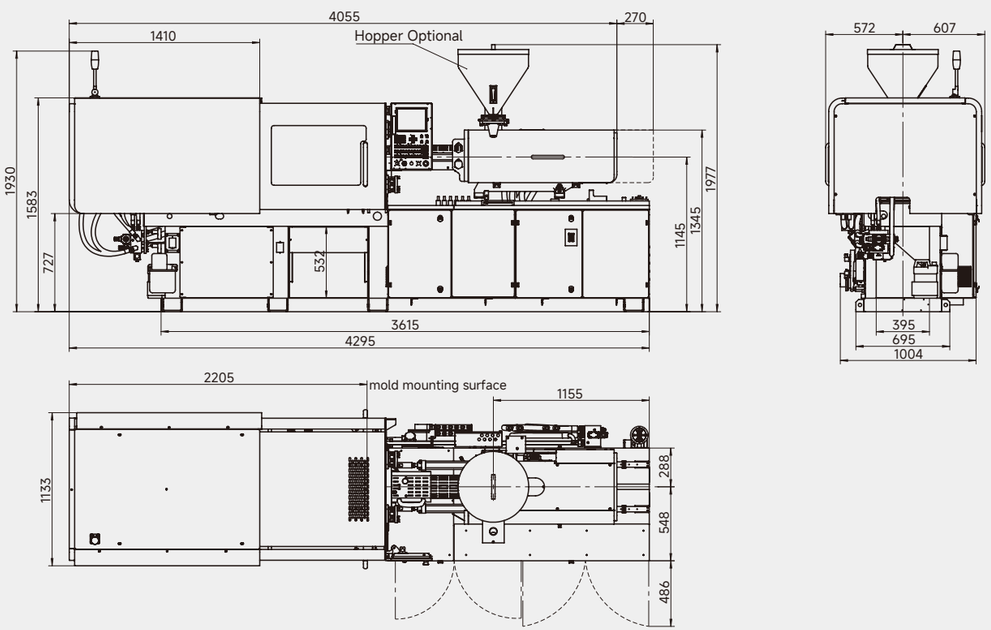
MK7max | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM88-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing

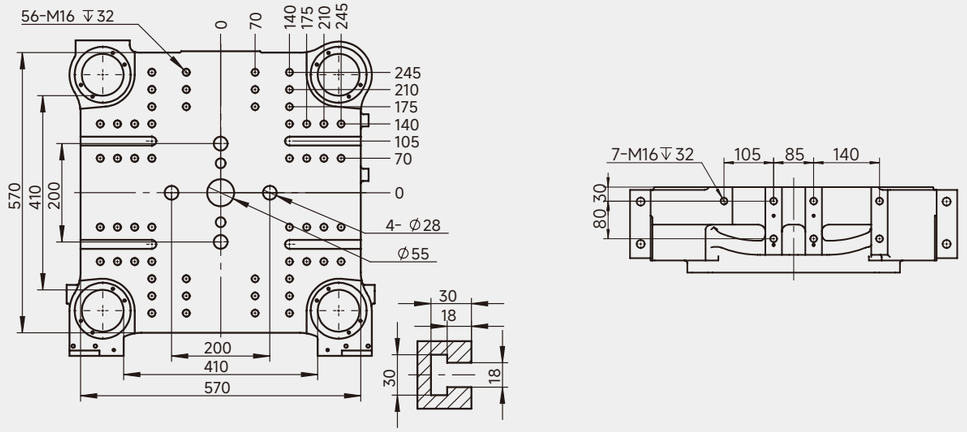


Machine Dimensions (LxWxH)

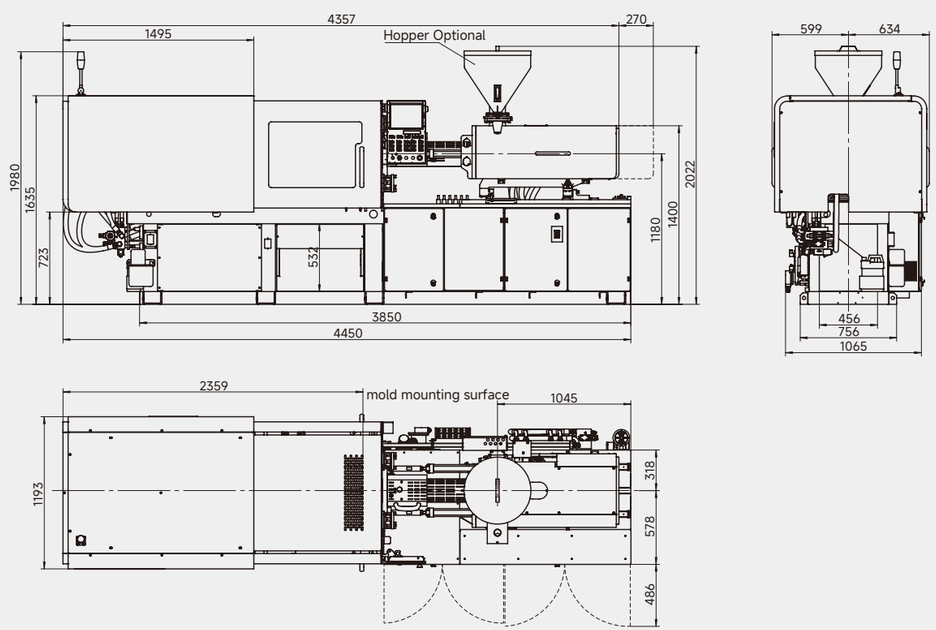


JM128-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing



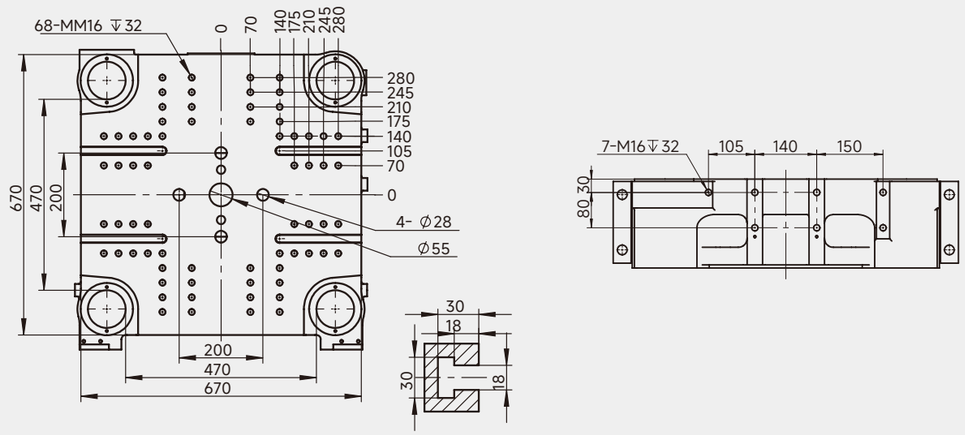
Machine Dimensions (LxWxH)



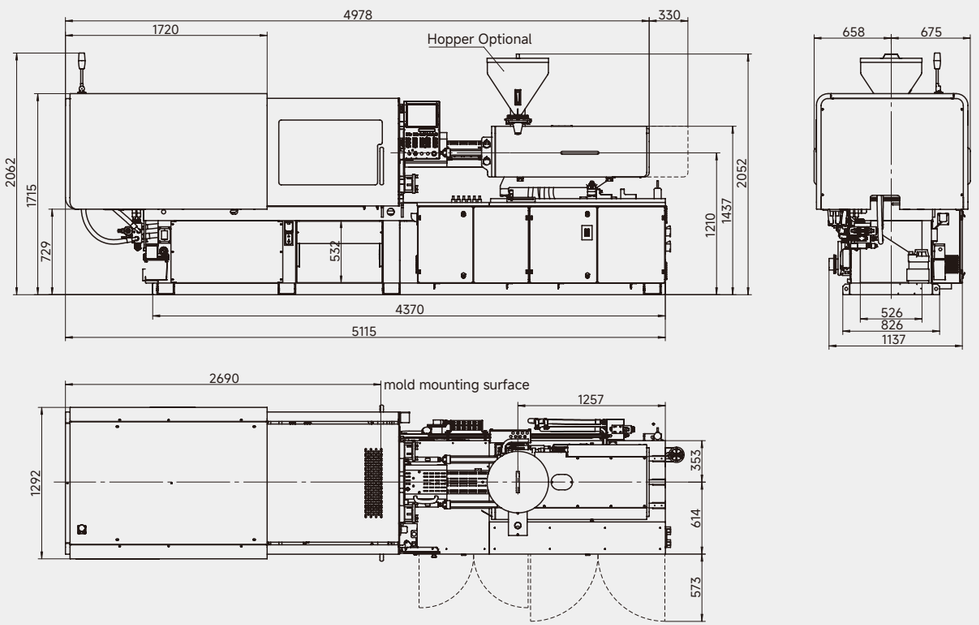
MK7max | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM168-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing

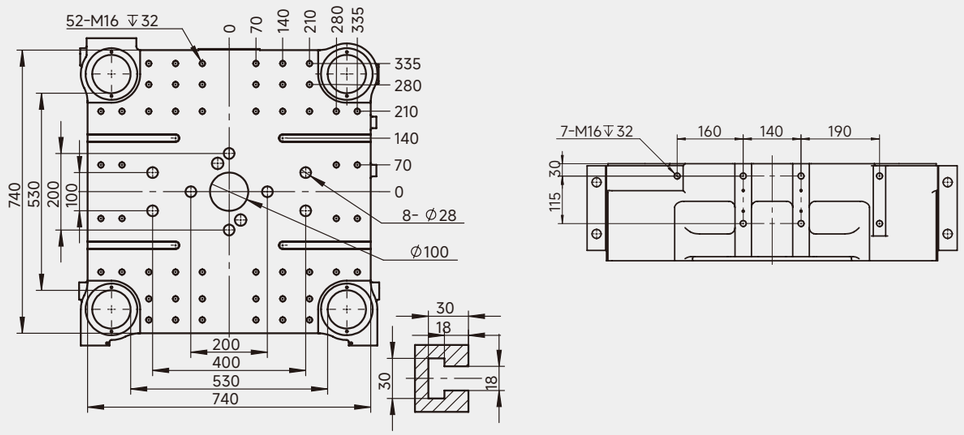


Machine Dimensions (LxWxH)

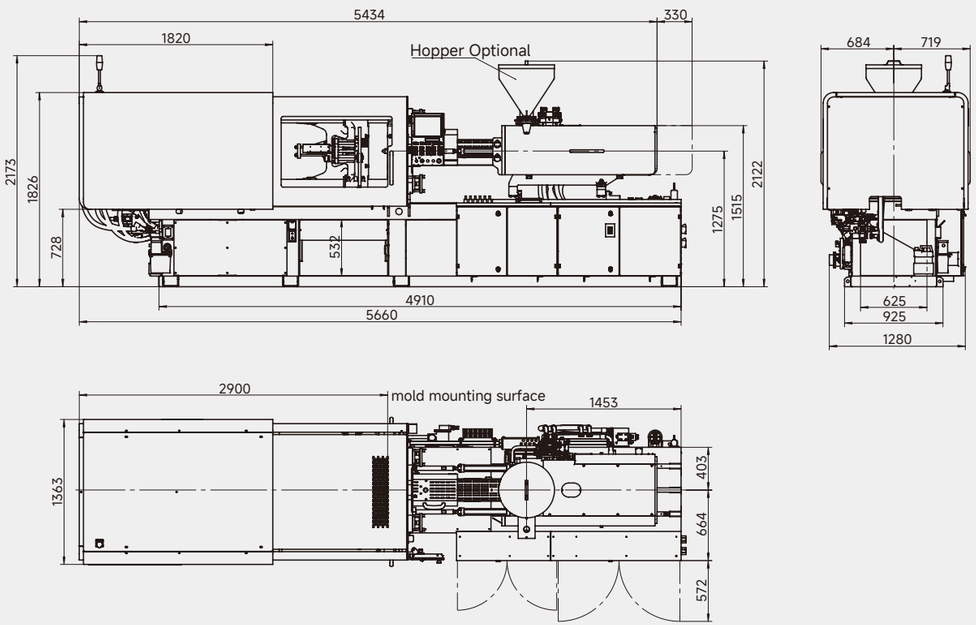


JM208-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing



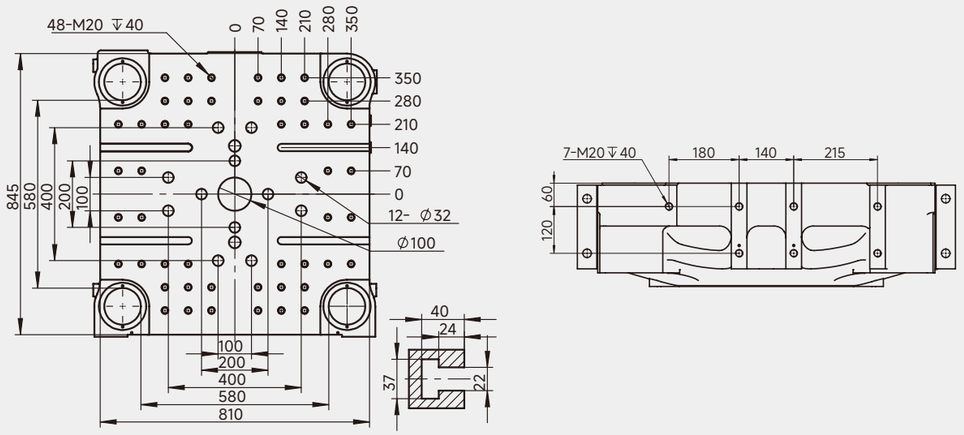
Machine Dimensions (LxWxH)



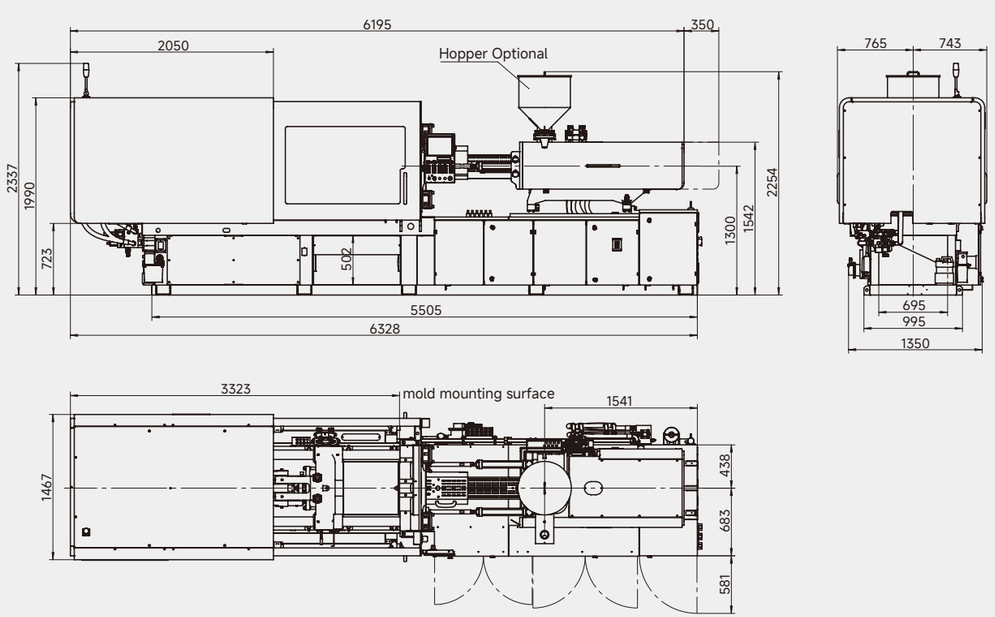
MK7max | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM258-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing

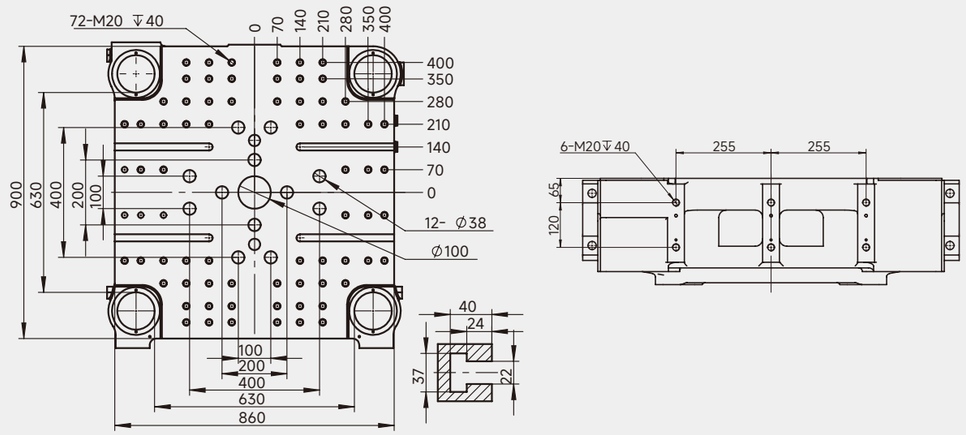


Machine Dimensions (LxWxH)

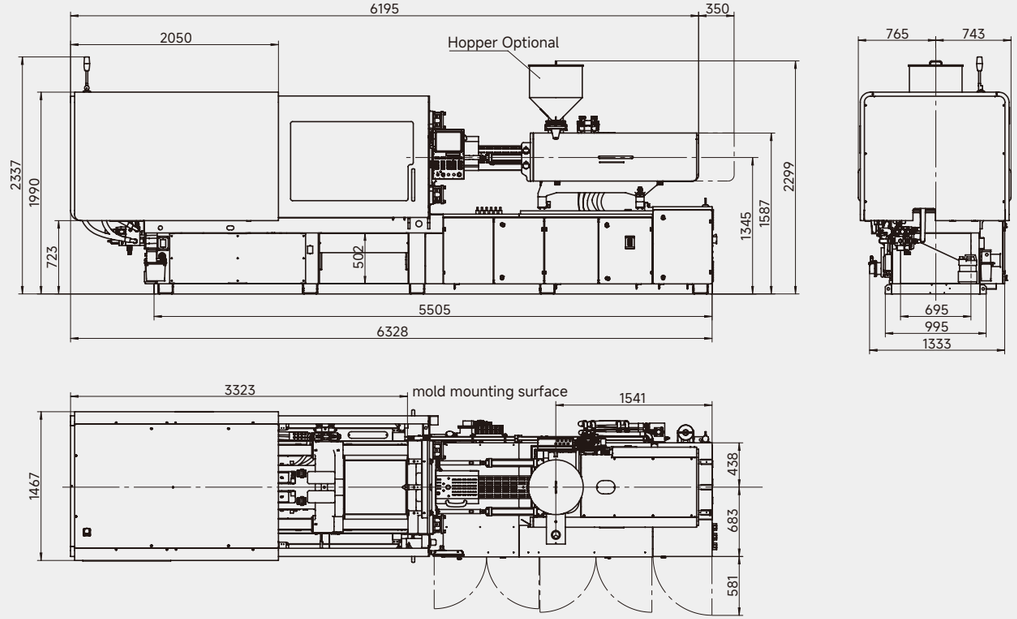


JM288-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing



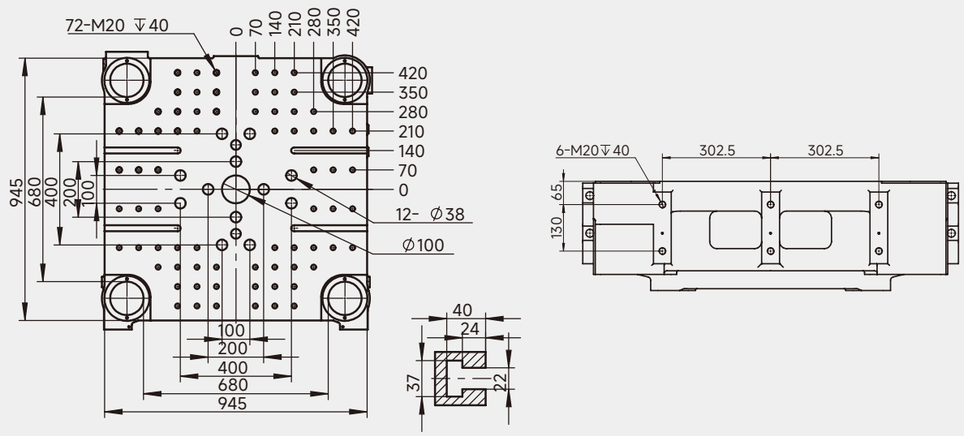
Machine Dimensions (LxWxH)



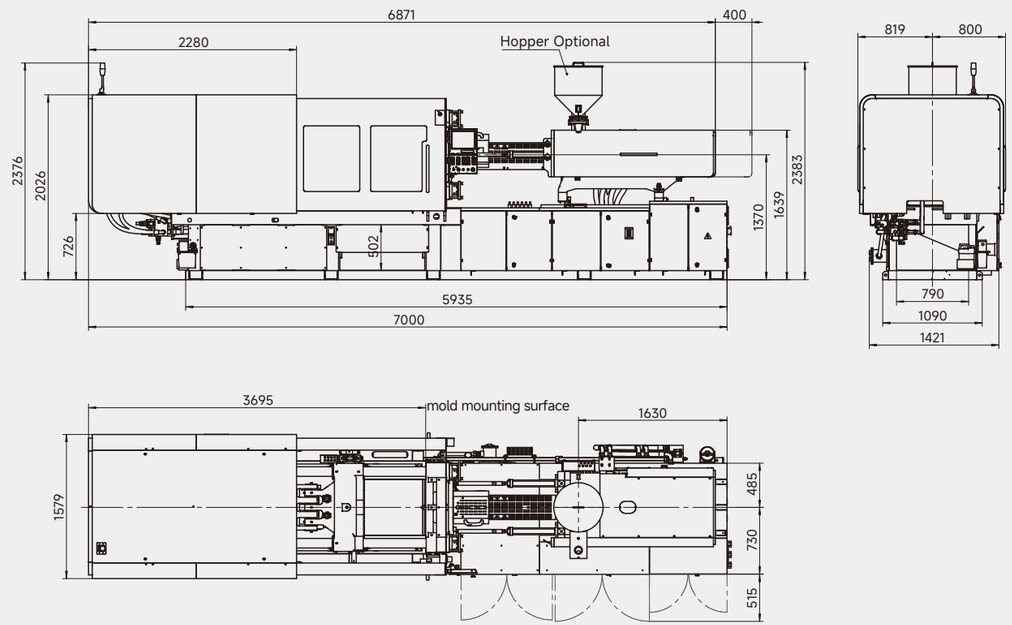
MK7max | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM328-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing

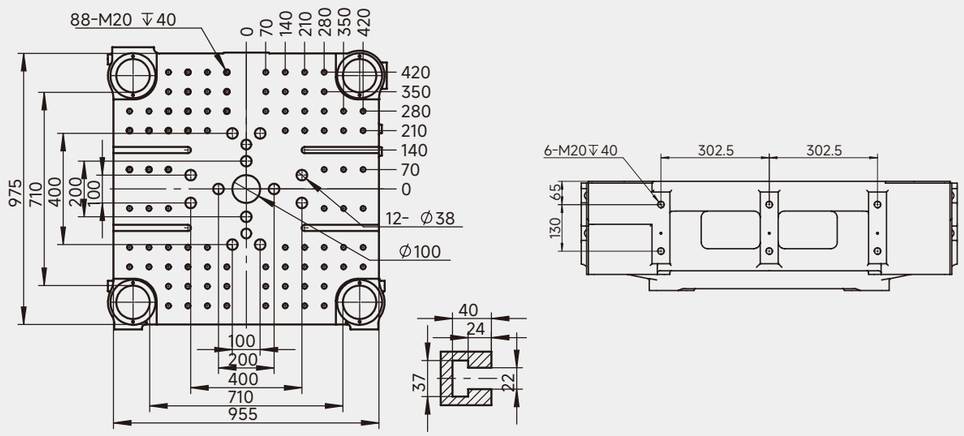


Machine Dimensions (LxWxH)

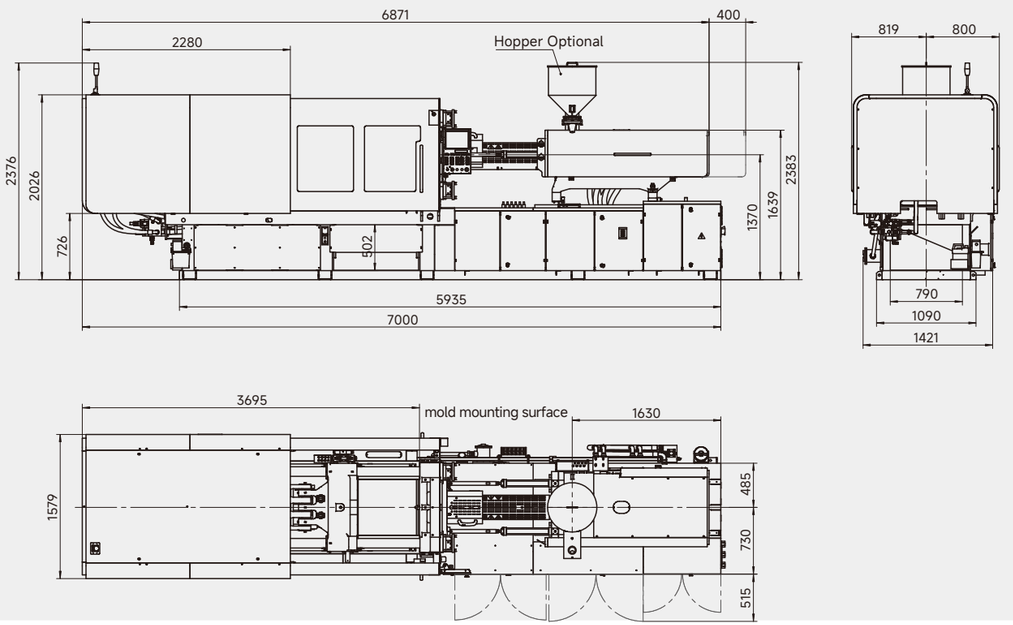


JM358-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing



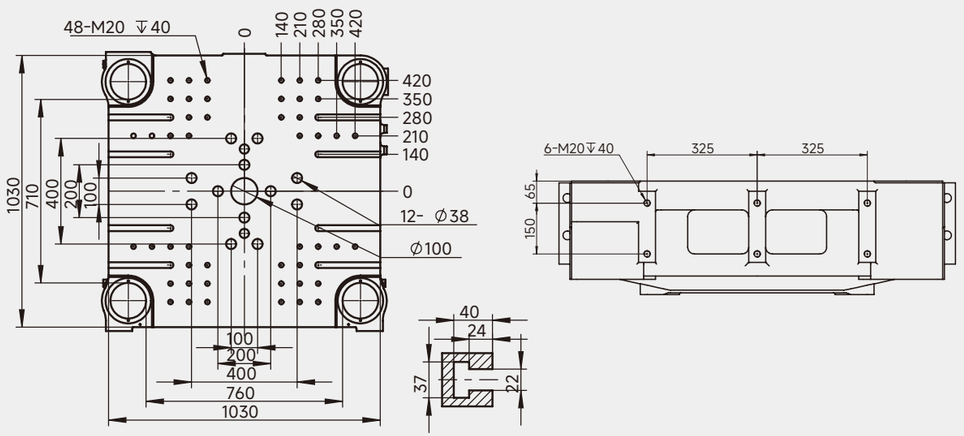
Machine Dimensions (LxWxH)



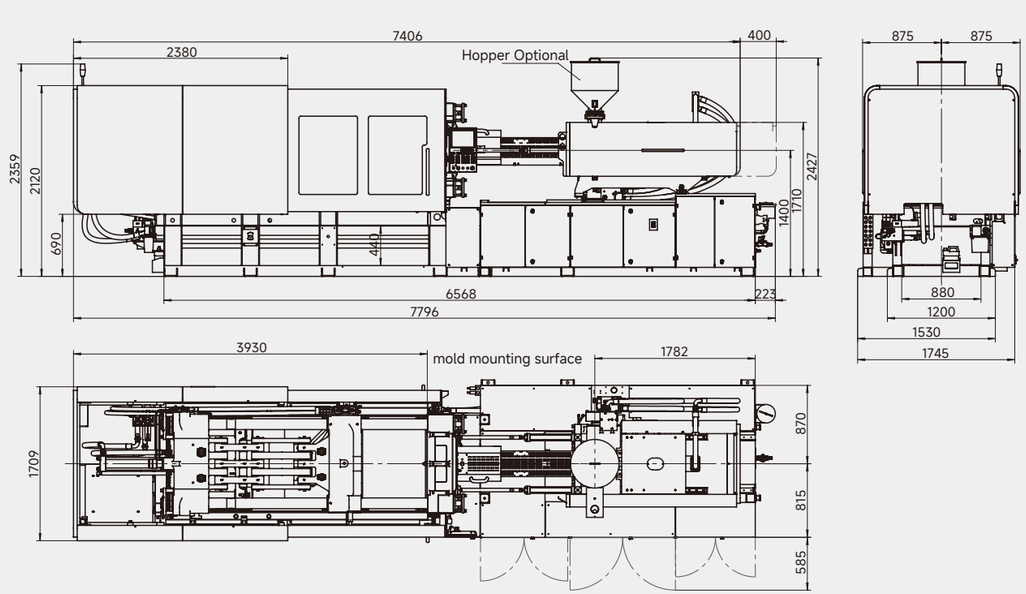
MK7max | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM398-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing

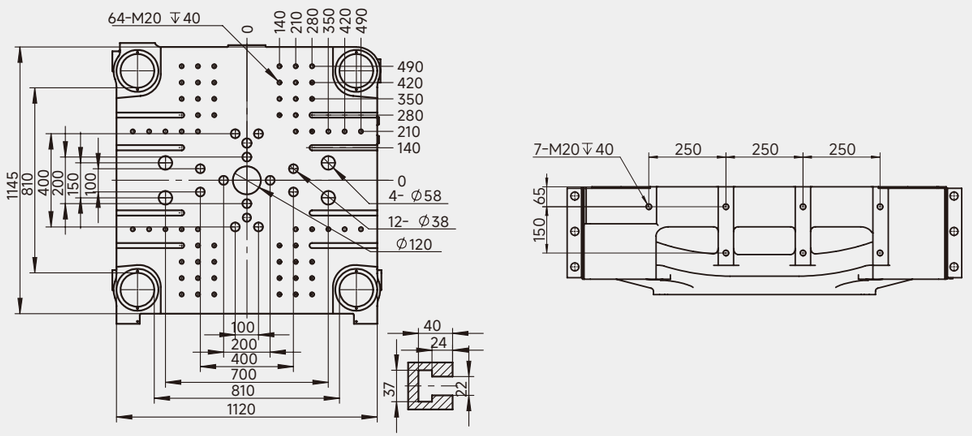


Machine Dimensions (LxWxH)

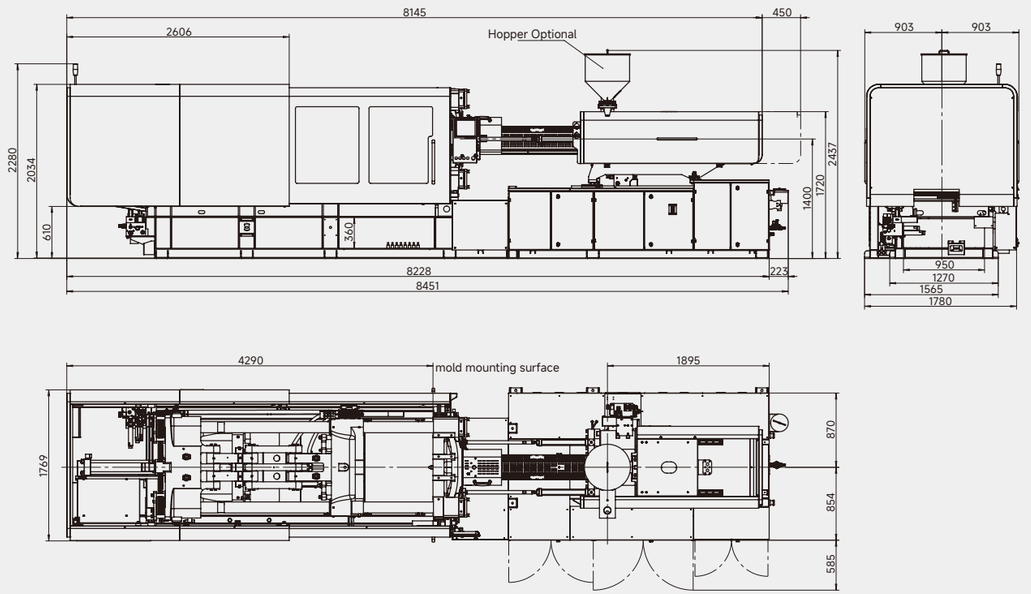


JM468-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing



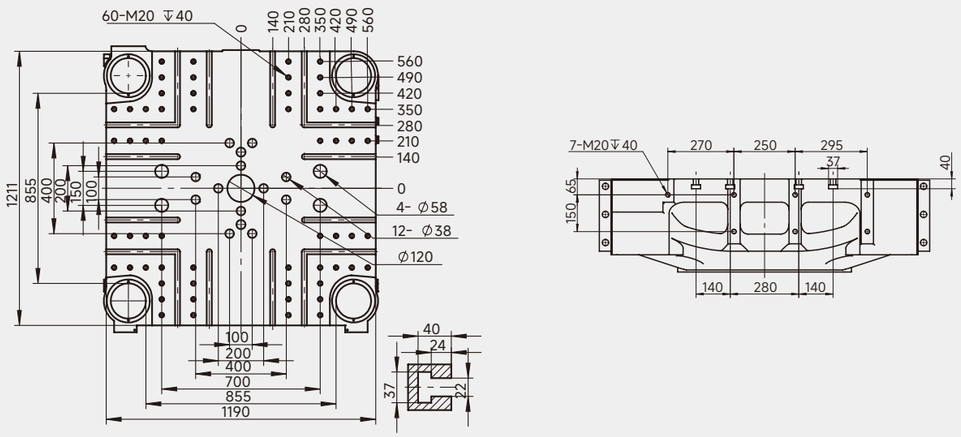
Machine Dimensions (LxWxH)



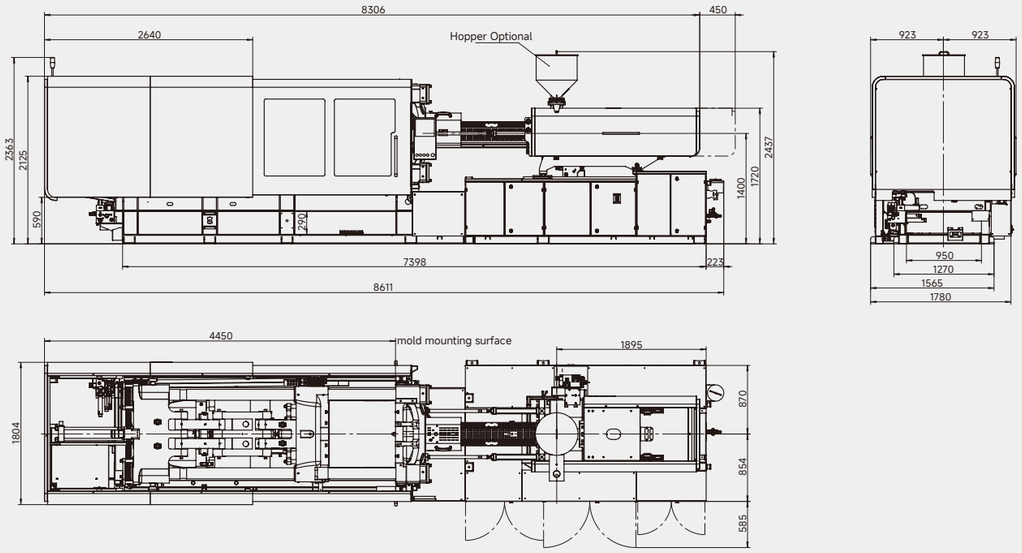
MK7max | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM568-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing

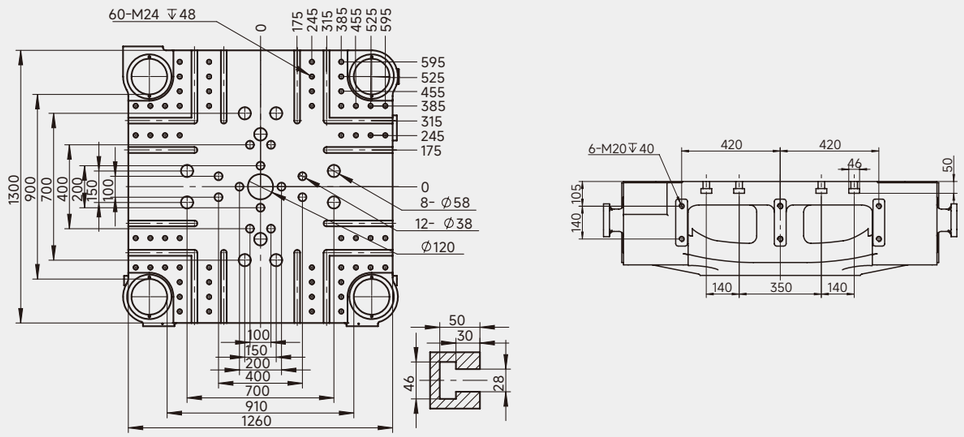


Machine Dimensions (LxWxH)

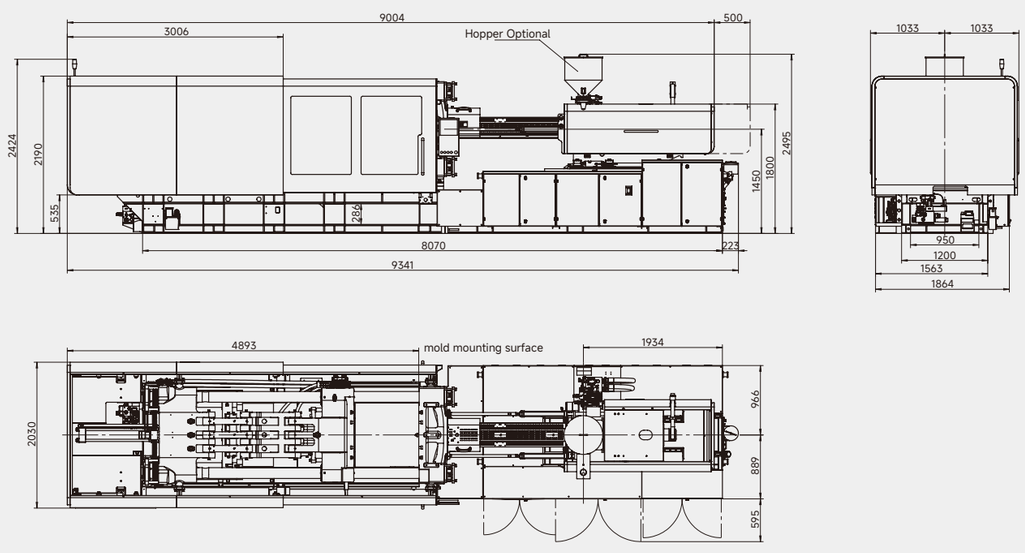


JM668-MK7max

Platen Dimensions, Robot Arm Mounting Holes Drawing



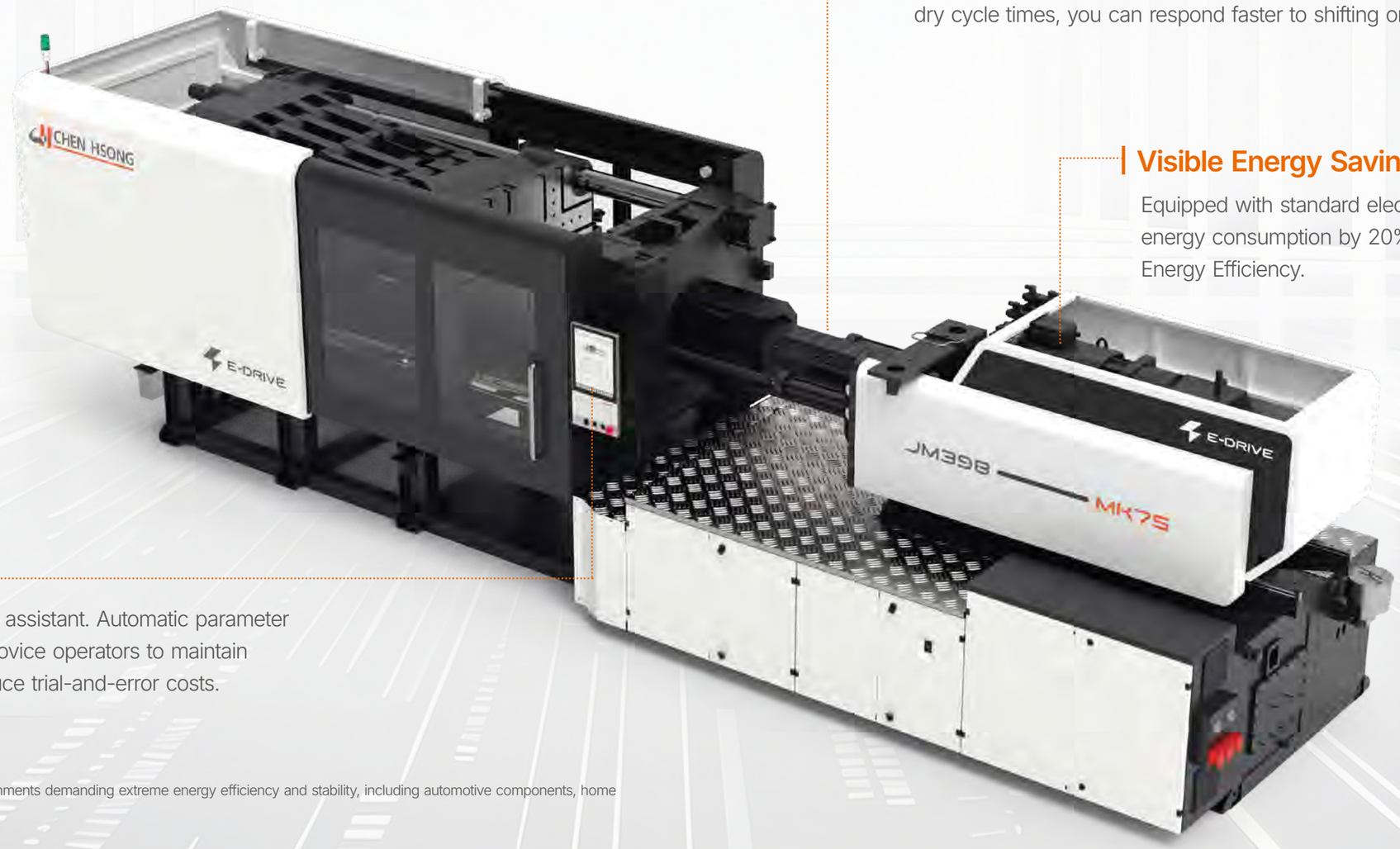
Machine Dimensions (LxWxH)



MK7 Series | MK7S
Precision Injection Molding with eDrive™

Looking for Smart Energy Savings? The MK7S Series is your go-to.

Our smart energy flagship is designed specifically for energy-conscious manufacturers. Transform every kilowatt saved into direct profit for your bottom line.



High-Efficiency, High-Response Production

Injection and plasticising speeds increased by over 10%. With industry-leading dry cycle times, you can respond faster to shifting order demands.

Visible Energy Savings

Equipped with standard electric eDrive™. Reduces plasticising energy consumption by 20%–40%, achieving National Level 1 Energy Efficiency.

AI-Assisted Setup

Features an AI mold-setup assistant. Automatic parameter optimisation allows even novice operators to maintain stable production and reduce trial-and-error costs.

■ Applications: Ideal for production environments demanding extreme energy efficiency and stability, including automotive components, home appliances, and daily consumables.

01 Energy Efficiency

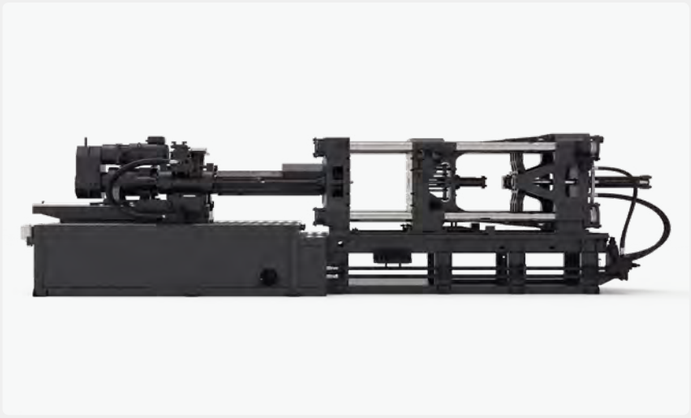
① Standard Electric Plasticising:
Full series equipped with eDrive™ technology, cutting plasticising energy consumption by 10–25%.

02 High Productivity

① Parallel Motion Capability:
Independent servo screw drive enables simultaneous plasticising and mold opening for significantly shorter cycles.

② Superior Melt Rates:
High-torque screw drives increase plasticising speeds by 10–60%, maximising throughput.

03 High Versatility



① High-Precision Molding:
Increased injection pressure and speeds (up 12–25%) reduce dry cycle times by 10–22%.

② Wide Application Range:
Generous tie-bar spacing and extended opening strokes accommodate a diverse range of complex molds.

04 Intelligent Control System

① Smart Ecosystem:
Features an upgraded 15-inch touchscreen centered on three core modules: Smart Plasticising, Injection, and Clamping.

② Autonomous Management:
Built-in AI optimises mold opening, dosing, lubrication, and energy monitoring for high-efficiency smart production.

- Intelligent mold opening/closing
- Intelligent clamping force control
- Intelligent material storage
- Intelligent energy consumption control

MK7S | Specifications

	UNIT	JM88-MK7S			JM128-MK7S			JM168-MK7S			JM208-MK7S			JM258-MK7S			JM288-MK7S			JM328-MK7S			JM358-MK7S			JM398-MK7S			JM468-MK7S		
INJECTION UNIT		330			500			710			1040			1040			1580			2250			2250			3100			4150		
Screw Diameter	mm	31	36	41	36	41	46	41	46	52	46	52	60	46	52	60	52	60	67	60	67	75	60	67	75	67	75	83	75	83	90
Screw L/D	/	24.4	21	18.4	23.9	21	18.7	23.6	21	18.6	23.7	21	18.2	23.7	21	18.2	24.2	21	18.8	23.5	21	18.8	23.5	21	18.8	23.5	21	19	23.2	21	19.4
Theoretical Injection Capacity	cm^3	135	183	237	208	270	340	303	382	488	431	551	734	431	551	734	636	847	1057	946	1180	1479	946	1180	1479	1321	1655	2027	1832	2244	2638
Injection shot weight	g	123	166	216	189	246	309	276	347	444	393	502	668	393	502	668	579	771	962	861	1074	1346	861	1074	1346	1202	1506	1845	1667	2042	2401
Injection Pressure (Max.)	MPa	250	185	143	243	187	149	236	187	146	242	189	142	242	189	142	250	187	150	239	191	153	239	191	153	235	188	153	228	186	159
Injection Rate (Max.)	cm^3/s	93	126	163	120	156	196	155	195	249	190	243	323	190	243	323	244	325	405	319	397	498	319	397	498	388	486	595	528	646	760
Injection Speed (Max.)	mm/s	124			118			117			114			114			115			112			112			110			119		
Injection Stroke (Max.)	mm	180			205			230			260			260			300			335			335			375			415		
Screw Speed (Max.)	rpm	350			320			300			270			270			270			250			250			220			220		
Nozzle Contact Force (Max.)	kN	44			44			44			44			44			91			91			91			91			91		
Nozzle Distance (Max.)	mm	250			250			250			280			330			330			360			360			420			420		
CLAMPING UNIT																															
Clamping Force (Max.)	kN	880			1280			1680			2080			2580			2880			3280			3580			3980			4680		
Opening Stroke (Max.)	mm	330			370			420			490			530			590			600			640			700			780		
Platen Dimensions (H×V)	mm	510×510			570×570			660×660			740×740			810×845			860×900			930×945			955×955			1030×1030			1120×1145		
Space Between Tie Bars (H×V)	mm	360×360			410×410			460×460			530×530			580×580			630×630			660×660			710×670			760×710			810×810		
Mold Thickness (Min.-Max.)	mm	130-390			145-450			160-520			180-550			195-610			195-630			220-680			220-710			250-730			275-810		
Daylight (Max.)	mm	720			820			940			1040			1140			1220			1280			1350			1430			1590		
Ejector Force (Max.)	kN	28			42			42			67			77			77			77			77			111			111		
Ejector Stroke (Max.)	mm	100			120			140			150			170			170			170			170			220			220		
No. of Ejectors	PCS	5			5			5			9			13			13			13			13			13			17		
Locating Ring Diameter	mm	100			100			125			125			125			125			125			125			160			160		
OTHERS																															
System Pressure	MPa	18.5			18.5			18.5			18.5			18.5			18.5			18.5			18.5			18.5			18.5		
Motor Rated Power	kW	19			19			27			31			31			39			51			51			63			78		
Plasticizing motor power	kW	16			19			27			31			31			41			47			47			51			58		
Heating Power (Max.)	kW	6.9			10.6			13			16.2			16.2			19.7			25.7			25.7			31.3			36.9		
Temperature Control Zone	Zone	3+1			3+1			3+1			3+1			3+1			4+1			4+1			4+1			5+1			5+1		
Machine Dimensions (LxWxH)	m	4.6×1.2×1.9			4.9×1.3×2.0			5.5×1.4×2.0			6.1×1.5×2.1			6.7×1.6×2.3			6.7×1.6×2.3			7.2×1.7×2.4			7.2×1.7×2.4			8.1×1.8×2.3			8.6×1.9×2.4		
Tank Capacity	L	130			170			200			240			300			300			390			390			480			600		
Machine Weight	kg	2900			3500			4500			6000			8300			8600			10100			10700			13700			17200		

Note: PS density is calculated at 0.91g/cm^3; recommended injection shot weight range is 20%-75%.

• The above technical parameters are reference values under conventional conditions. Actual performance may vary due to different environmental factors during practical application, and parameter performance may be biased. To continuously optimise product experience, adjustments may be made without prior notice. The company reserves the right of final interpretation of this specification sheet.

MK7S | Specifications

	UNIT	JM568-MK7S			JM668-MK7S			JM800-MK7S			JM1000-MK7S			JM1200-MK7S			JM1300-MK7S			JM1400-MK7S			JM1650-MK7S			JM1850-MK7S		
INJECTION UNIT		4150			5400			6860			9610			9610			12470			15500			19380			19380		
Screw Diameter	mm	75	83	90	83	90	98	90	98	110	98	110	120	98	110	120	110	120	130	120	130	140	130	140	150	130	140	150
Screw L/D	/	23.2	21	19.4	23.9	22	20.2	24	22	19.6	24.7	22	20.2	24.7	22	20.2	24	22	20.3	23.8	22	20.4	23.7	22	20.5	23.7	22	20.5
Theoretical Injection Capacity	cm^3	1832	2244	2638	2433	2861	3392	3179	3770	4749	4146	5224	6217	4146	5224	6217	5699	6782	7960	7347	8623	10001	9286	10770	12364	9286	10770	12364
Injection shot weight	g	1667	2042	2401	2214	2603	3087	2893	3430	4322	3773	4754	5658	3773	4754	5658	5186	6172	7244	6686	7847	9101	8450	9801	11251	8450	9801	11251
Injection Pressure (Max.)	MPa	228	186	159	223	190	160	216	182	145	232	184	154	232	184	154	219	184	157	211	180	155	209	180	157	209	180	157
Injection Rate (Max.)	cm^3/s	528	646	760	552	649	769	759	900	1134	787	992	1181	787	992	1181	950	1131	1327	1054	1238	1435	1223	1418	1628	1223	1418	1628
Injection Speed (Max.)	mm/s	119			102			119			104			104			100			93			92			92		
Injection Stroke (Max.)	mm	415			450			500			550			550			600			650			700			700		
Screw Speed (Max.)	rpm	220			200			160			135			135			135			125			125			125		
Nozzle Contact Force (Max.)	kN	91			91			167			167			167			167			167			167			167		
Nozzle Distance (Max.)	mm	420			460			560			595			700			700			720			800			875		
CLAMPING UNIT																												
Clamping Force (Max.)	kN	5680			6680			8000			10000			12000			13000			14000			16500			18500		
Opening Stroke (Max.)	mm	845			920			1050			1230			1310			1400			1500			1600			1650		
Platen Dimensions (H×V)	mm	1190×1210			1260×1300			1440×1440			1630×1630			1770×1770			1900×1830			2030×1930			2190×2070			2330×2180		
Space Between Tie Bars (H×V)	mm	855×855			910×900			1020×1020			1160×1160			1250×1250			1350×1280			1450×1350			1550×1430			1660×1510		
Mold Thickness (Min.-Max.)	mm	330-880			350-900			400-1000			450-1160			500-1250			600-1300			650-1400			700-1500			750-1650		
Daylight (Max.)	mm	1725			1820			2050			2390			2560			2700			2900			3100			3300		
Ejector Force (Max.)	kN	166			182			182			215			215			215			352			352			400		
Ejector Stroke (Max.)	mm	250			265			280			320			320			350			400			400			420		
No. of Ejectors	PCS	17			21			21			29			29			29			25			25			29		
Locating Ring Diameter	mm	160			200			200			200			200			200			200			250			250		
OTHERS																												
System Pressure	MPa	18.5			18.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5		
Motor Rated Power	kW	78			78			119			130			130			145			161			185			185		
Plasticizing motor power	kW	58			67			72			92			92			115			134			134			134		
Heating Power (Max.)	kW	36.9			44.3			46.7			58.7			58.7			70.1			77.4			95.2			95.2		
Temperature Control Zone	Zone	5+1			6+1			6+1			6+1			6+1			6+1			6+1			6+1			6+1		
Machine Dimensions (LxWxH)	m	8.9×2.0×2.4			9.9×2.2×2.5			11.1×2.4×2.6			11.9×2.6×3.3			12.2×2.8×3.4			13.0×2.9×3.5			13.8×3.1×3.5			14.7×3.2×3.7			15.5×3.4×3.7		
Tank Capacity	L	600			600			900			1050			1050			1200			1300			1500			1500		
Machine Weight	kg	18700			24400			34500			44500			54500			61500			77500			97500			115000		

Note: PS density is calculated at 0.91g/cm^3; recommended injection shot weight range is 20%-75%.

• The above technical parameters are reference values under conventional conditions. Actual performance may vary due to different environmental factors during practical application, and parameter performance may be biased. To continuously optimise product experience, adjustments may be made without prior notice. The company reserves the right of final interpretation of this specification sheet.

MK7S | Features(88-668T)

Note: ● Standard, ○ Optional, × Not Available.

		MK7S
INJECTION UNIT	1.Injection Unit Linear Guide	●
	2.Electric Plasticising Device	●
	3.Dual-Cylinder Balanced Injection System	●
	4.Dual Injection Carriage Hydraulic Cylinders	●
	5.Bi-Metallic Screw and Barrel	●
	6.Digital Back Pressure Control Device	●
	7.Nozzle Cover and High-Temperature Barrel Cover	●
	8.Automatic Purge Function	●
	9.Hopper Sliding Rail	●
	10.Plasticising Screw RPM Display	●
	11.Temperature PID Control System	●
	12.Nozzle Centering Fine Adjustment Function	●
	13.Barrel with Aerogel Insulation	●
	14.Extended Nozzle	○
	15.Upsized/Downsized First-Stage Injection Unit	○
	16.Upsized Plasticising Motor Device	○
	17.Barrel Cooling Solenoid Valve Control	○
	18.Ceramic Heater Bands Device	○
	19.Barrel Fan Cooling Device	○
	20.Barrel Energy-Saving Device (Infrared Heating Bands)	○
	21.Manual Lubrication Pump for Injection Unit	○
	22.Hopper	○

		MK7S
CLAMPING UNIT	1.T-Slot + Mount Hole Mold Platen	●
	2.High-Strength Chrome-Plated Tie Bars	●
	3.High-Strength Platens	●
	4.Hydraulic Gear-Driven Mold Adjustment	●
	5.Automatic Mold Height Adjustment	●
	6.Ejector Rod Pull-Back Structure	●
	7.Toggle Automatic Lubrication System	●
	8.Dual Electrical and Hydraulic Protection	●
	9.Adjustable Ejector Return Position Function	●
	10.Fixed Mold Locating Ring	●
	11. Upsized Oil Tank	○
	12.Multiple Sets of Hydraulic Core Pulls	○
	13.Multiple Sets of Air-Blows	○
	14.Increased Ejector Force and Ejector Stroke	○
	15.Euromap 18 for Robot Mounting	○
	16.Additional Mold Insulation Plate	○
	17.Manual Lubrication for Mold Height Adjustment	○

		MK7S
HYDRAULIC SYSTEM	1.Low-Energy Internal Gear Pump	●
	2.High-Performance Hydraulic Control Valve	●
	3.Servo Drive Flow and Pressure Control	●
	4.Low-Pressure Mold Protection Function	●
	5.Oil Suction and Bypass Oil Filter Device	●
	6.High-Efficiency Oil Cooler	●
	7.Oil Temperature Close-Loop Control and Monitoring	●
	8.Oil Level Display	●
	9.Mold Opening/Closing Proportional Valve	○
	10.Additional Oil Cooler	○
	11.Hydraulic Oil Low-Level Alarm	○
	12.Unscrewing Function	○
	13.Upsized Servo Oil Pump Motor	○
	14.Pressure Oil Preheating	○
	15.High-Stability Hydraulic Control	○

		MK7S
CONTROLLER	1.15-Inch Touchscreen Computer	●
	2.High-Response Servo Drive	●
	3.Temperature Sensing Wire Break Detection	●
	4.Cold Material Start-Up Protection	●
	5.Multiple Power Sockets (Right Side of Servo Cabinet)	●
	6.Front and Back Safety Door Emergency Stop Switch	●
	7.Tri-Colour Alarm	●
	8.National Standard Robot Interface	●
	9.Automatic Temperature Retention and Heating Settings	●
	10.Multiple Languages	●
	11.Process Parameter Locking Function	●
	12.Robot Interface Euromap 67 / Euromap 12	○
	13.Hot Runner Interface	○

		MK7S
OTHERS	1.Toolbox and Wearing Parts	○
	2.Level Pad	○
	3.Mold Clamping Plates	○
	4.Dryer and Other Equipments	○

MK7S | Features(800-1850T)

Note: ● Standard, ○ Optional, × Not Available.

		MK7S
INJECTION UNIT	1.Injection Unit Linear Guide	●
	2.Electric Plasticising Device	●
	3.Dual-Cylinder Balanced Injection System	●
	4.Dual Injection Carriage Hydraulic Cylinders	●
	5.Bi-Metallic Screw and Barrel	●
	6.Digital Back Pressure Control Device	●
	7.Nozzle Cover and High-Temperature Barrel Cover	●
	8.Automatic Purge Function	●
	9.Feeding Platform	● (800T Option)
	10.Plasticising Screw RPM Display	●
	11.Temperature PID Control System	●
	12.Nozzle Centering Fine Adjustment Function	●
	13.Barrel with Aerogel Insulation	●
	14.Manual Lubrication Pump for Injection Unit	●
	15.Extended Nozzle	○
	16.Upsized/Downsized First-Stage Injection Unit	○
	17.Upsized Plasticising Motor Device	○
	18.Barrel Cooling Solenoid Valve Control	○
	19.Ceramic Heater Bands Device	○
	20.Barrel Fan Cooling Device	○
	21.Barrel Energy-Saving Device (Infrared Heating Bands)	○
	22.Hopper Sliding Rail	○
	23.Hopper	○

		MK7S
CLAMPING UNIT	1.T-Slot + Mount Hole Mold Platen	●
	2.High-Strength Chrome-Plated Tie Bars	●
	3.High-Strength Platens	●
	4.Hydraulic Gear-Driven Mold Adjustment	●
	5.Automatic Mold Height Adjustment	●
	6.Ejector Rod Pull-Back Structure	●
	7.Toggle Automatic Lubrication System	●
	8.Dual Electrical and Hydraulic Protection	●
	9.Adjustable Ejector Return Position Function	●
	10.Fixed Mold Locating Ring	●
	11.Electric Front Safety Door	● (800T Option)
	12.Electric Grease Pump for Mold Adjustment	●
	13.Clamping Area Safety Footboard	● (800T,1000T Option)
	14.Upsized Oil Tank	○
	15.15.Multiple Sets of Hydraulic Core Pulls	○
	16.Multiple Sets of Air-Blows	○
	17.Increased Ejector Force and Ejector Stroke	○
	18.Euromap 18 for Robot Mounting	○
	19.Additional Mold Insulation Plate	○
	20.Adjustment-Free Mechanical Safety Lock	○

		MK7S
HYDRAULIC SYSTEM	1.Low-Energy Internal Gear Pump	●
	2.High-Performance Hydraulic Control Valve	●
	3.Servo Drive Flow and Pressure Control	●
	4.Low-Pressure Mold Protection Function	●
	5.Oil Suction and Bypass Oil Filter Device	●
	6.High-Efficiency Oil Cooler	●
	7.Oil Level Display	●
	8.Oil Temperature Close-Loop Control and Monitoring	○
	9.Mold Opening/Closing Proportional Valve	○
	10.Additional Oil Cooler	○
	11.Hydraulic Oil Low-Level Alarm	○
	12.Unscrewing Function	○
	13.Upsized Servo Oil Pump Motor	○
	14.Pressure Oil Preheating	○
	15.High-Stability Hydraulic Control	○

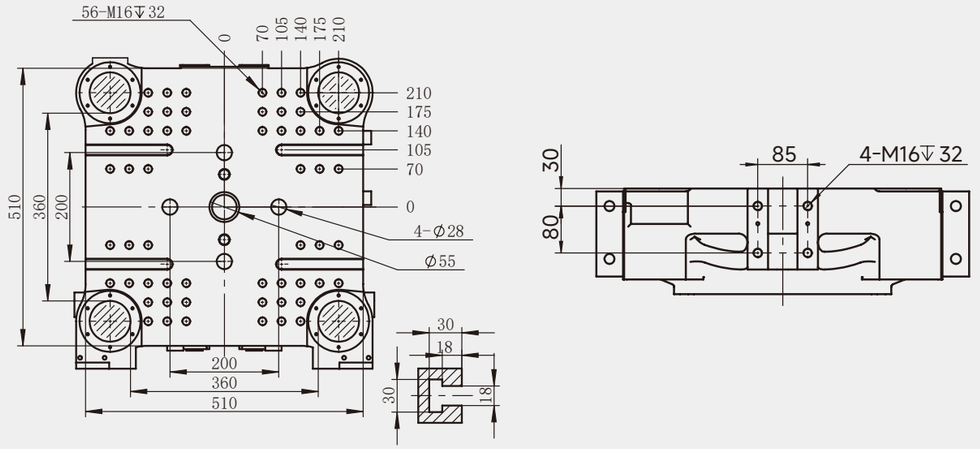
		MK7S
CONTROLLER	1.15-Inch Touchscreen Computer	●
	2.High-Response Servo Drive	●
	3.Temperature Sensing Wire Break Detection	●
	4.Cold Material Start-Up Protection	●
	5.Multiple Power Sockets (Right Side of Servo Cabinet)	●
	6.Front and Back Safety Door Emergency Stop Switch	●
	7.Safty Relay	●
	8.Tri-Colour Alarm	●
	9.National Standard Robot Interface	●
	10.Automatic Temperature Retention and Heating Settings	●
	11.Multiple Languages	●
	12.Process Parameter Locking Function	●
	13.Robot Interface Euromap 67 / Euromap 12	○
	14.Hot Runner Interface	○

		MK7S
CLAMPING UNIT	1.Toolbox and Wearing Parts	○
	2.Level Pad	○
	3.Mold Clamping Plates	○
	4.J-Bolt	○
	5.Dryer and Other Equipments	○

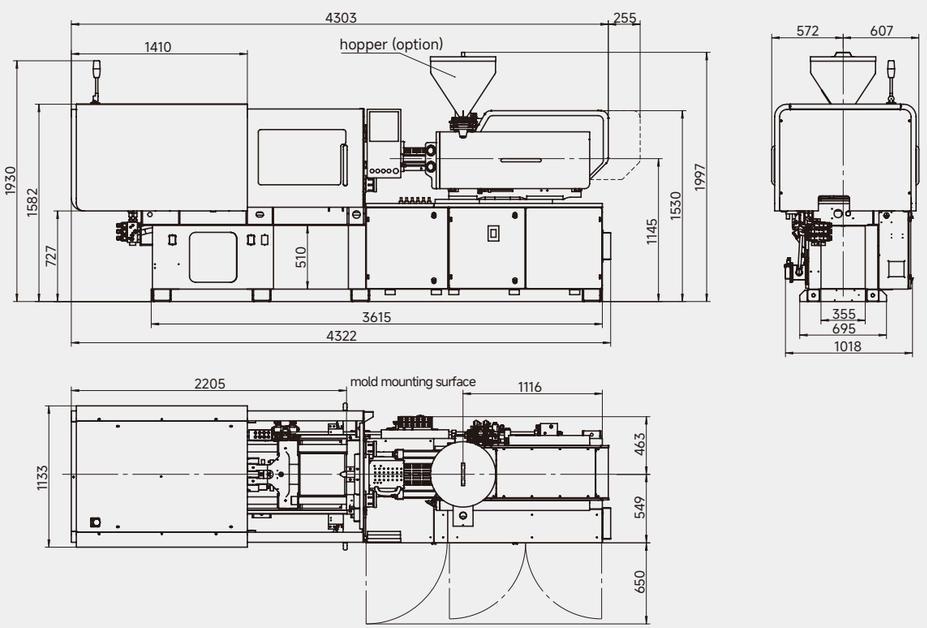
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM88-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

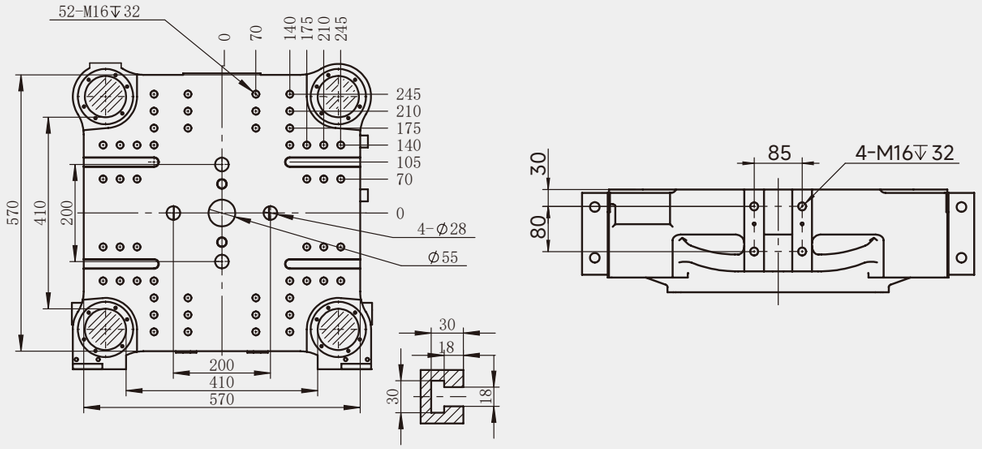


Machine Dimensions (LxWxH)

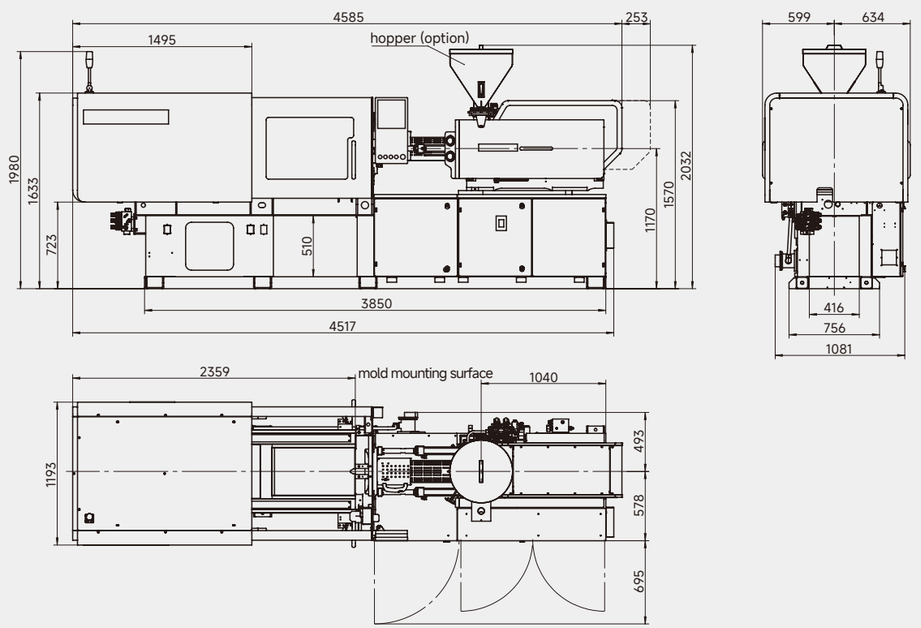


JM128-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



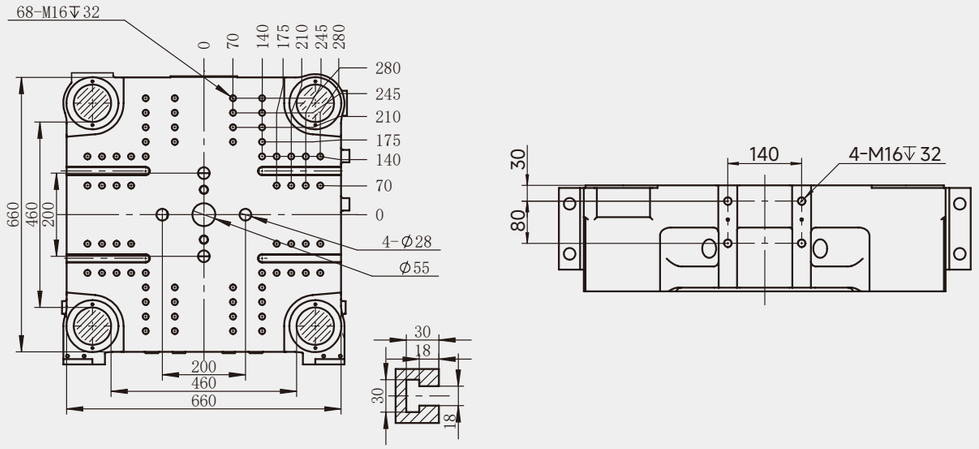
Machine Dimensions (LxWxH)



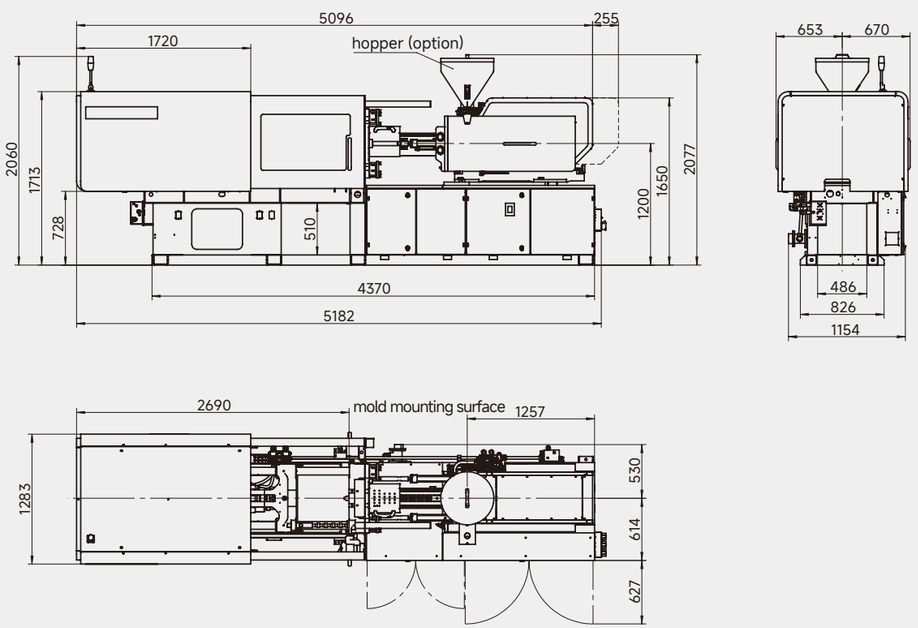
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM168-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

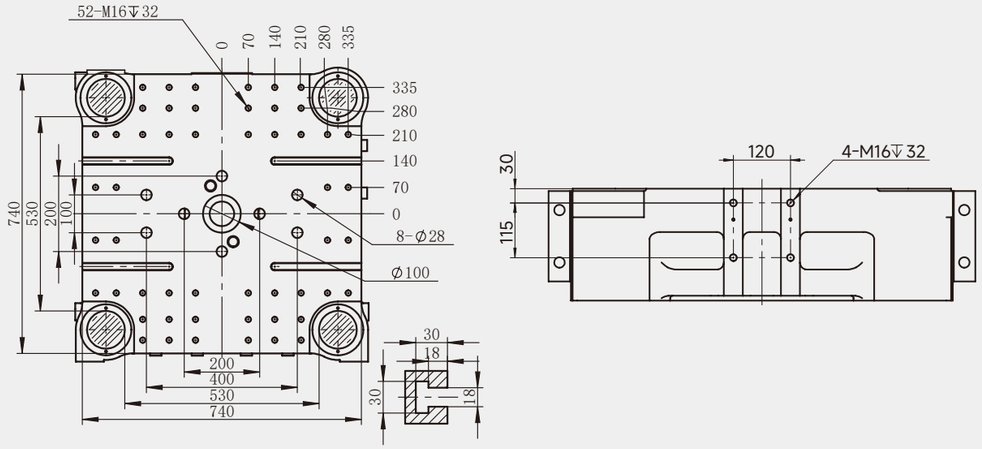


Machine Dimensions (LxWxH)

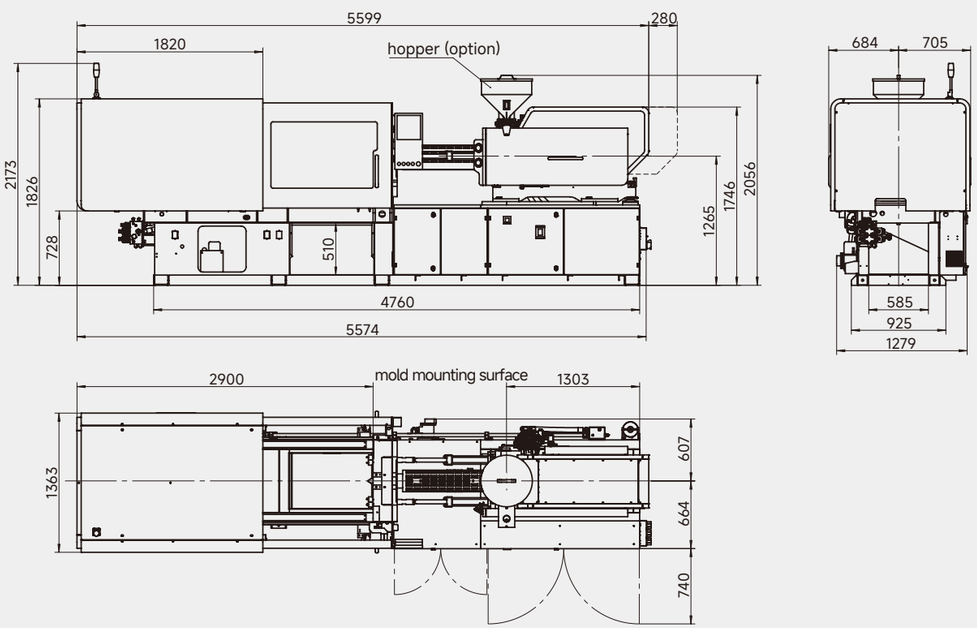


JM208-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



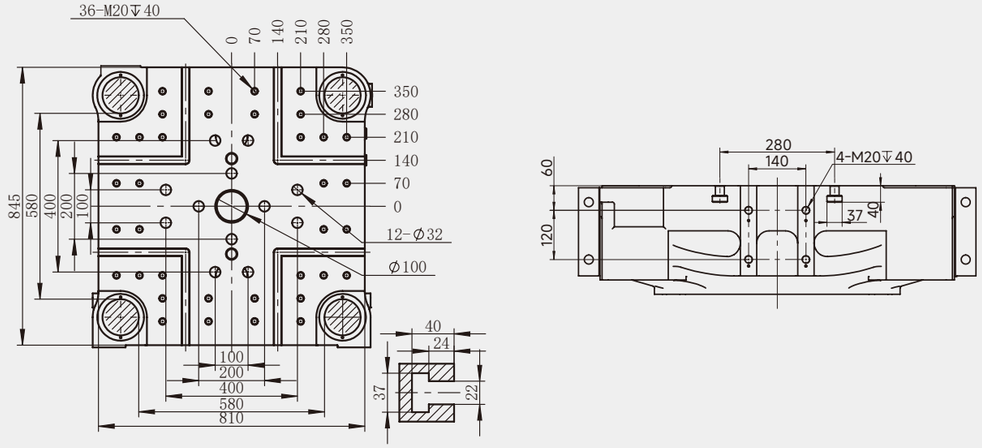
Machine Dimensions (LxWxH)



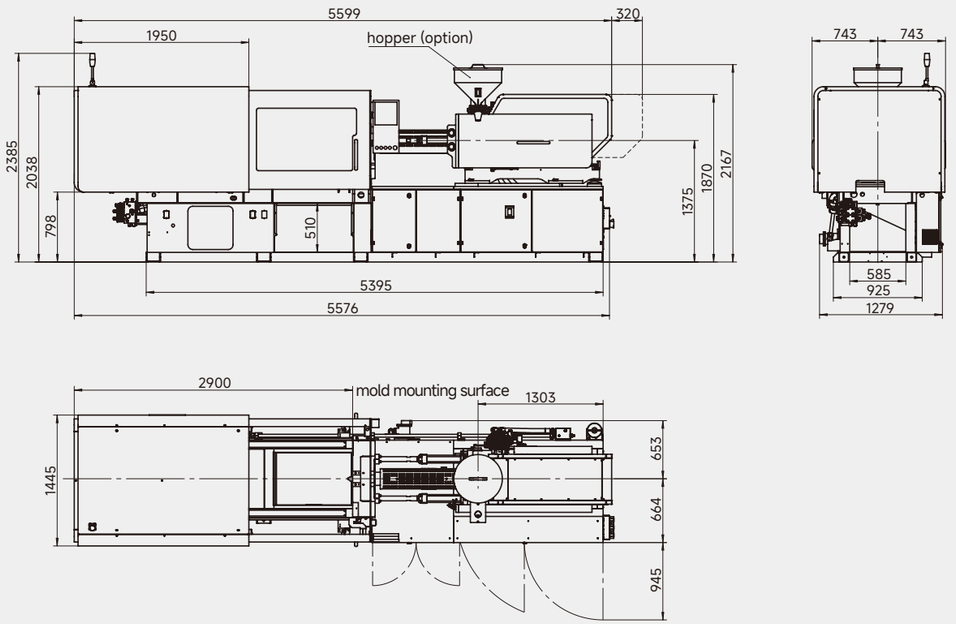
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM258-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

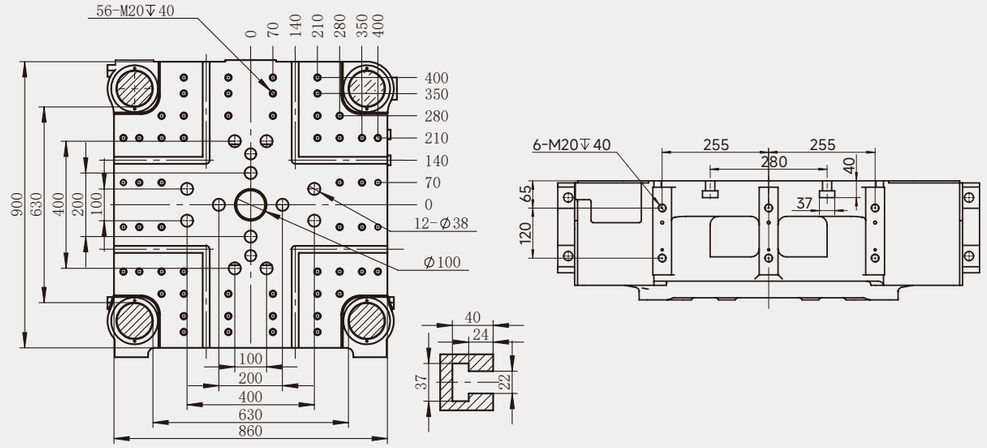


Machine Dimensions (LxWxH)

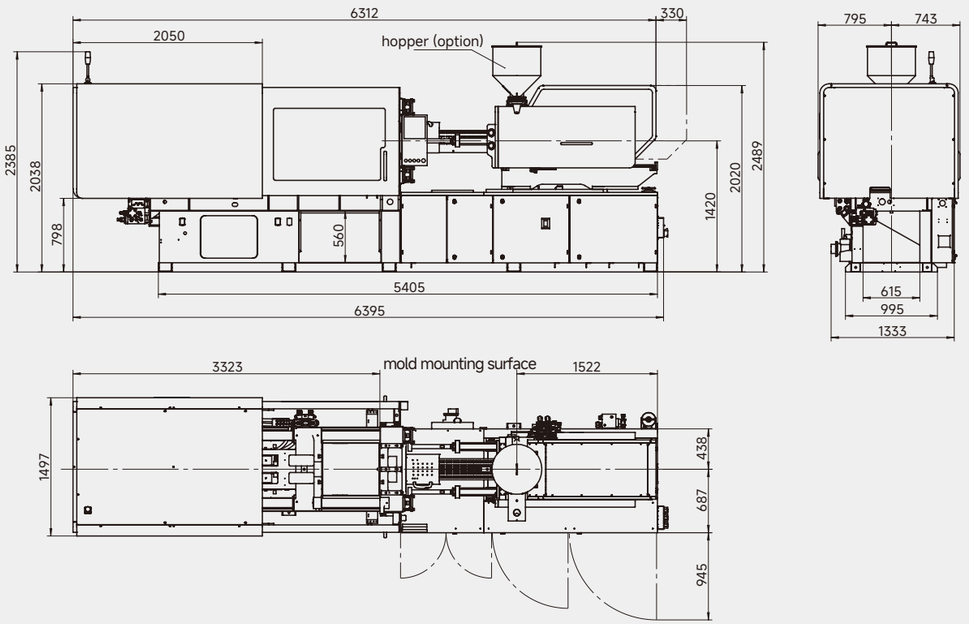


JM288-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



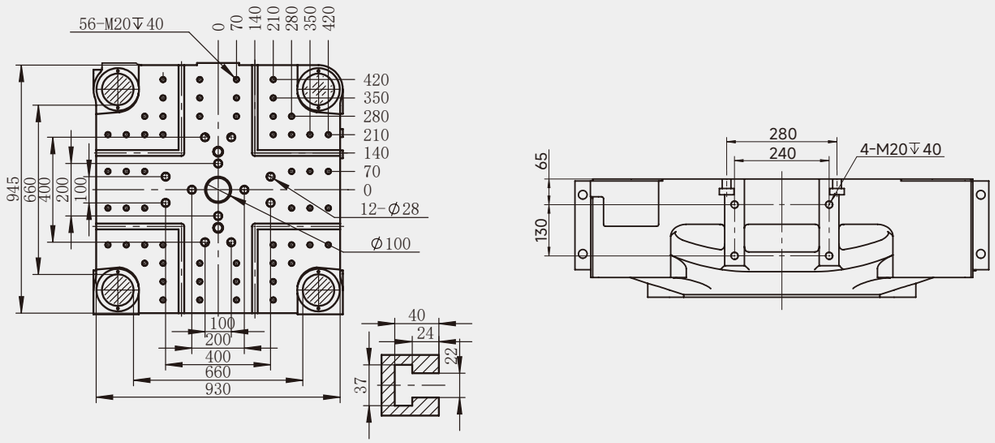
Machine Dimensions (LxWxH)



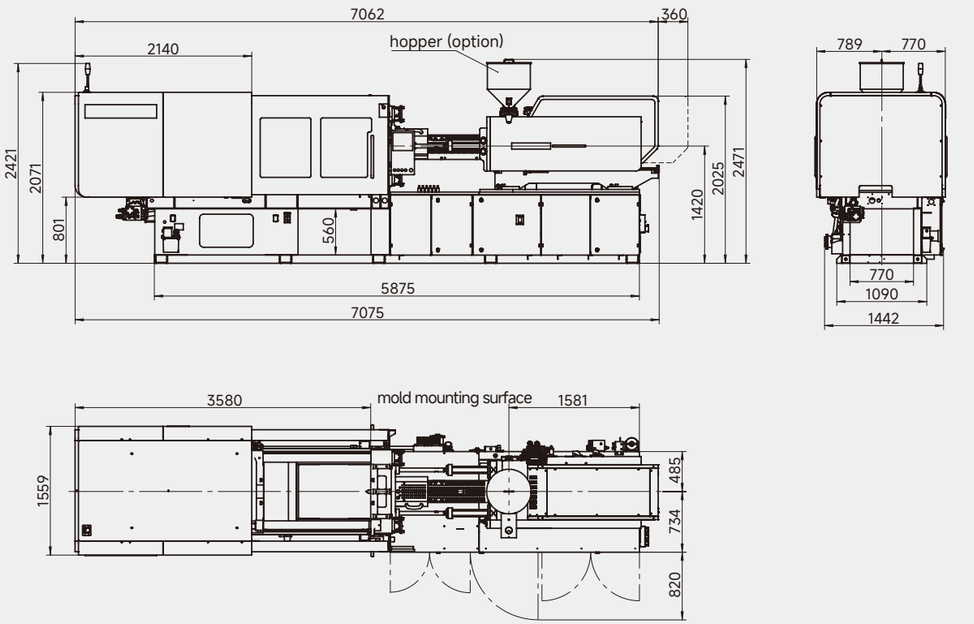
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM328-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

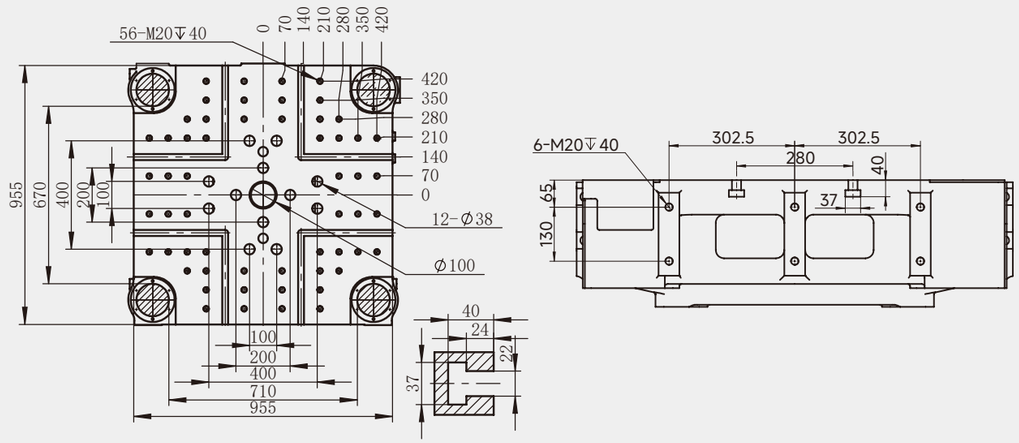


Machine Dimensions (LxWxH)

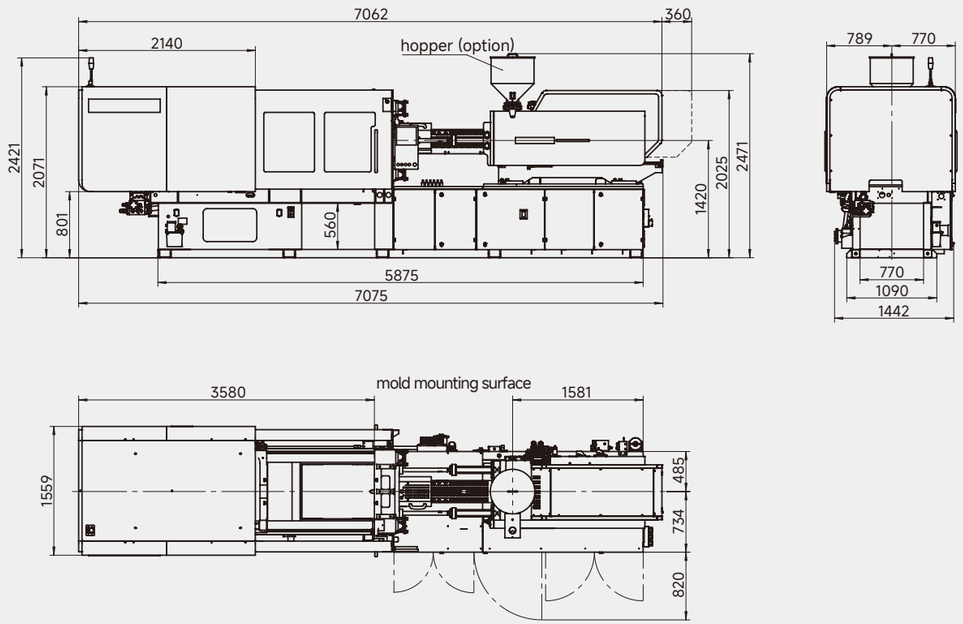


JM358-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



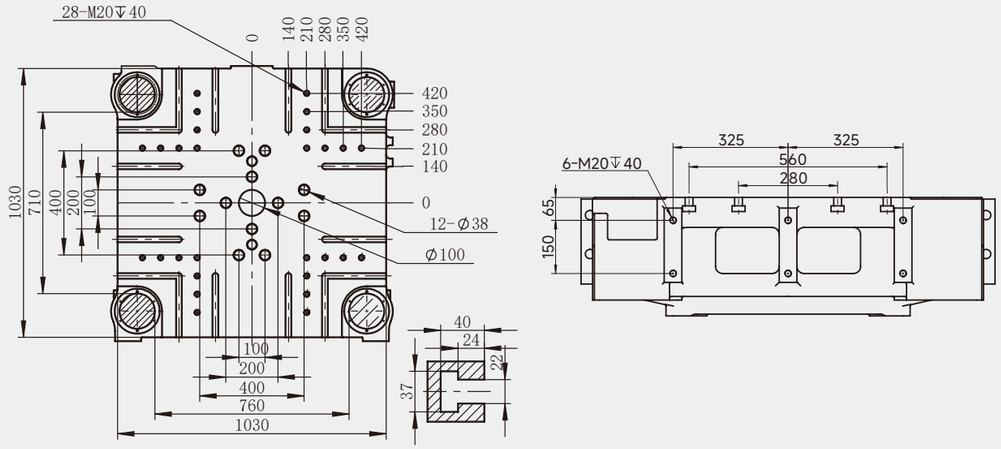
Machine Dimensions (LxWxH)



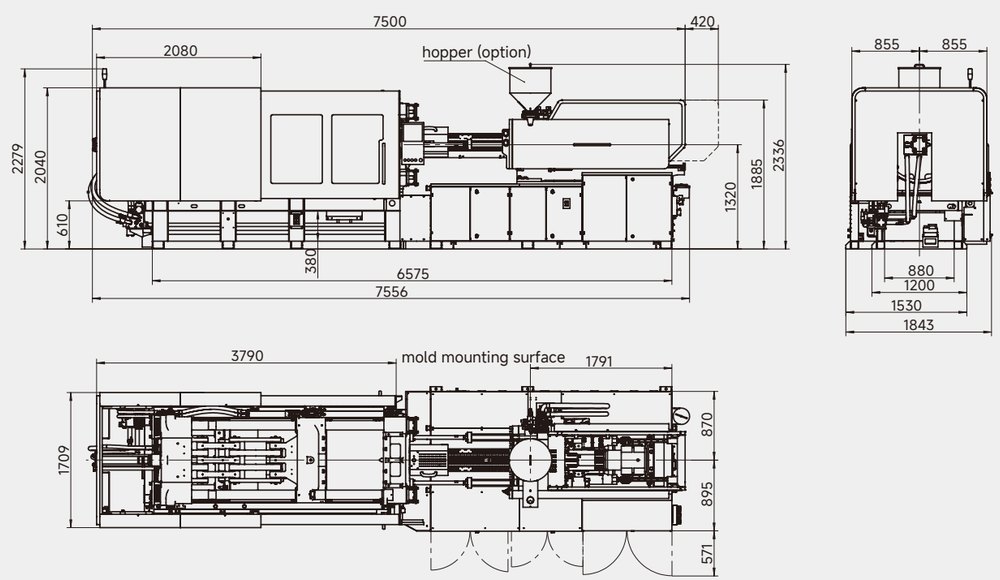
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM398-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

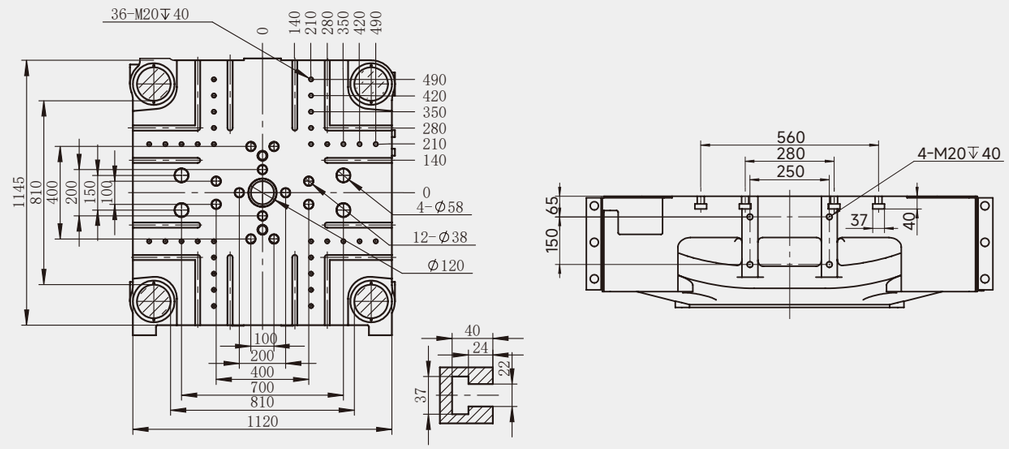


Machine Dimensions (LxWxH)

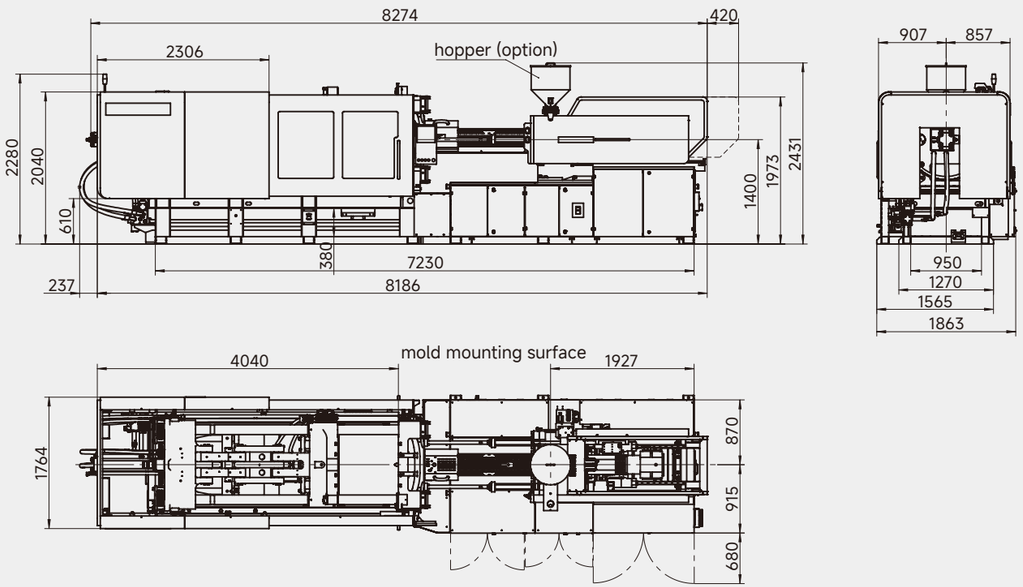


JM468-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



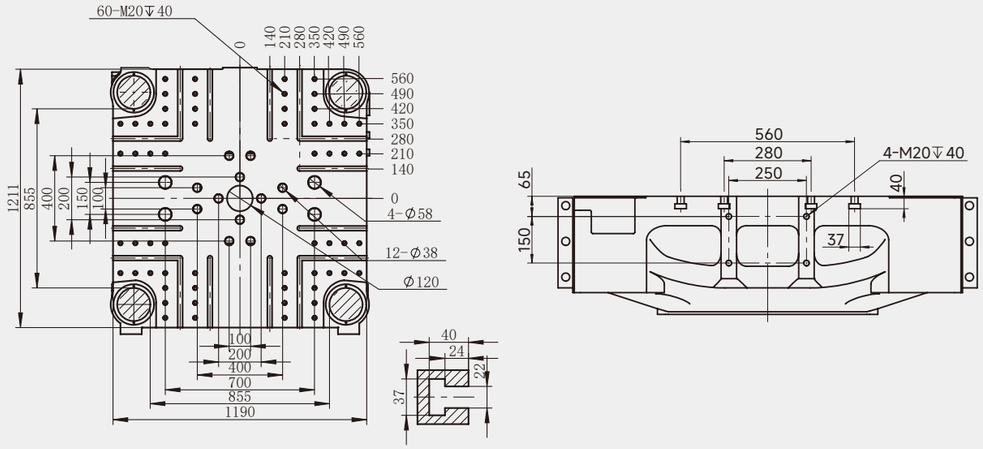
Machine Dimensions (LxWxH)



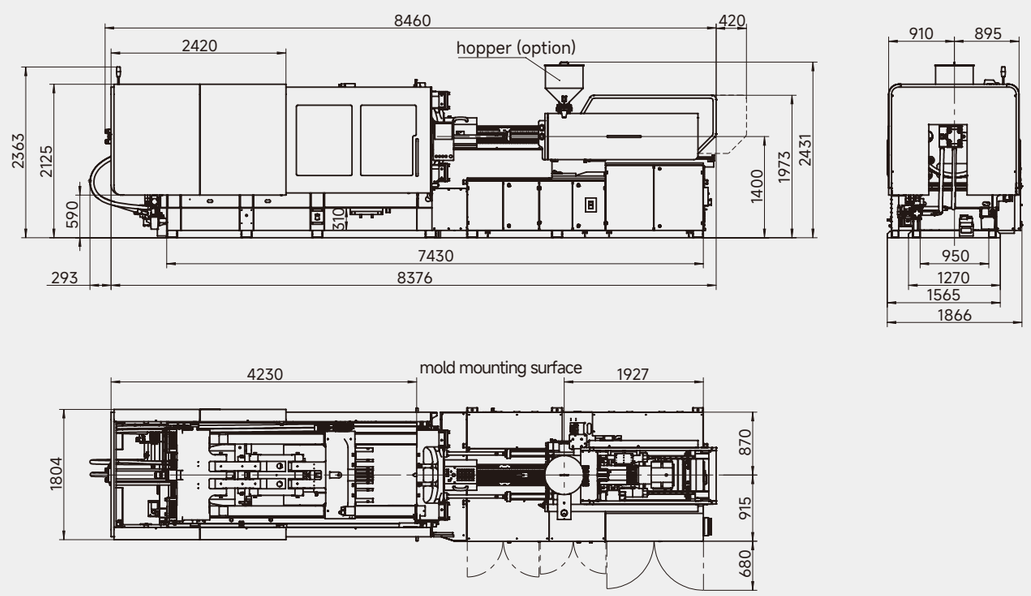
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM568-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

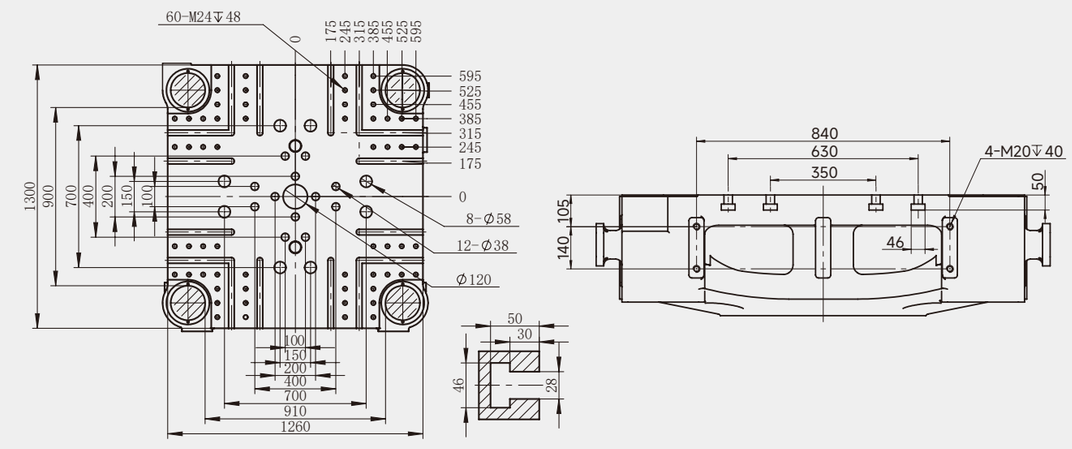


Machine Dimensions (LxWxH)

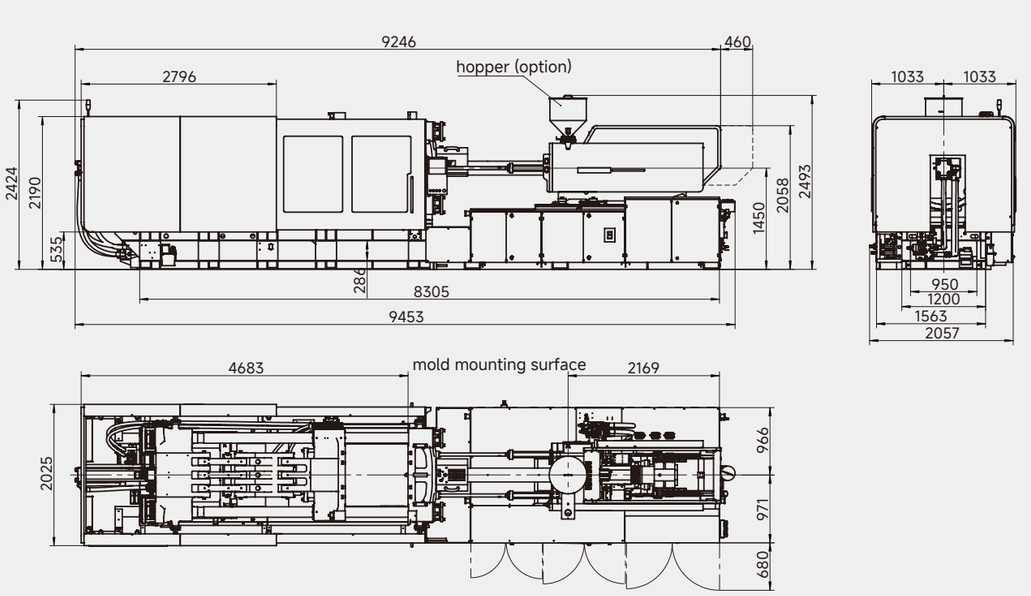


JM668-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



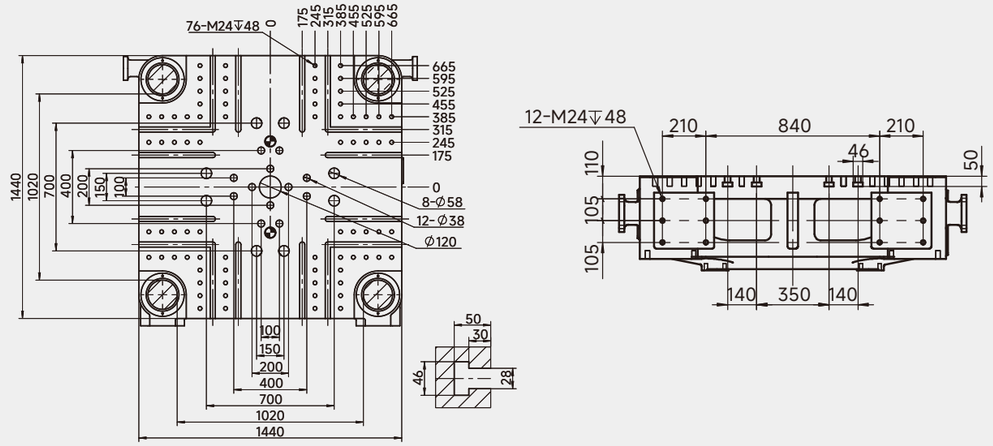
Machine Dimensions (LxWxH)



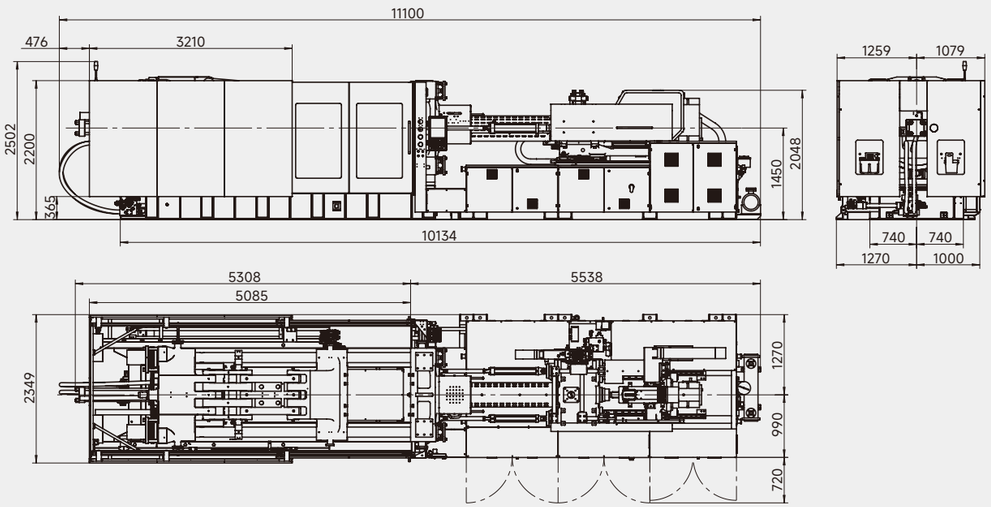
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM800-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

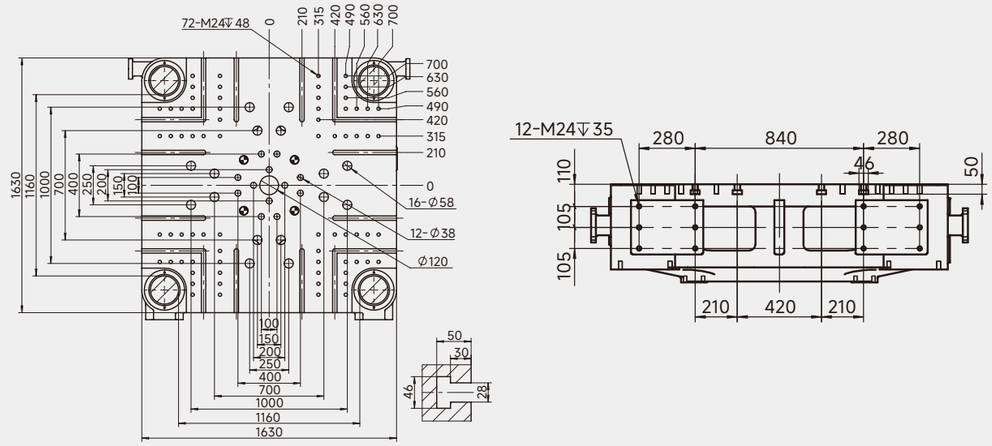


Machine Dimensions (LxWxH)

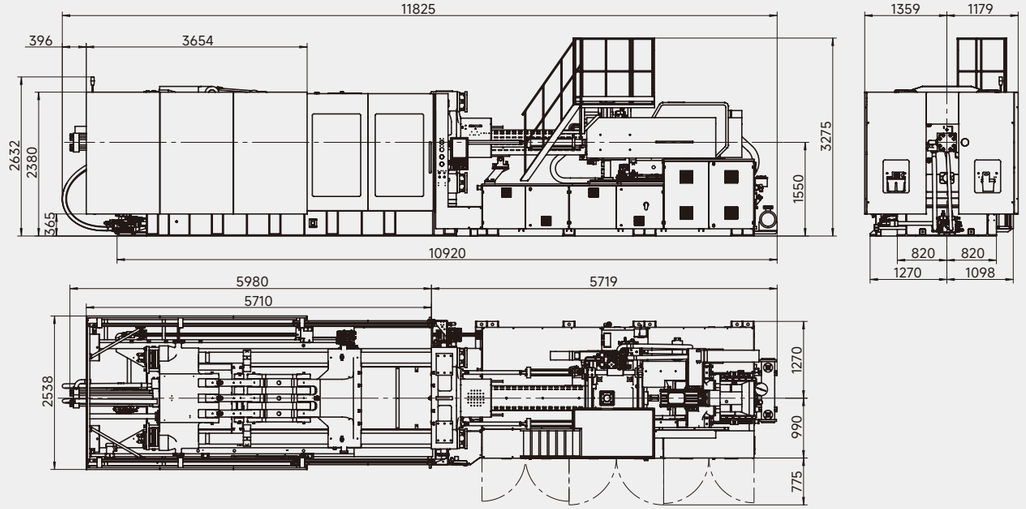


JM1000-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



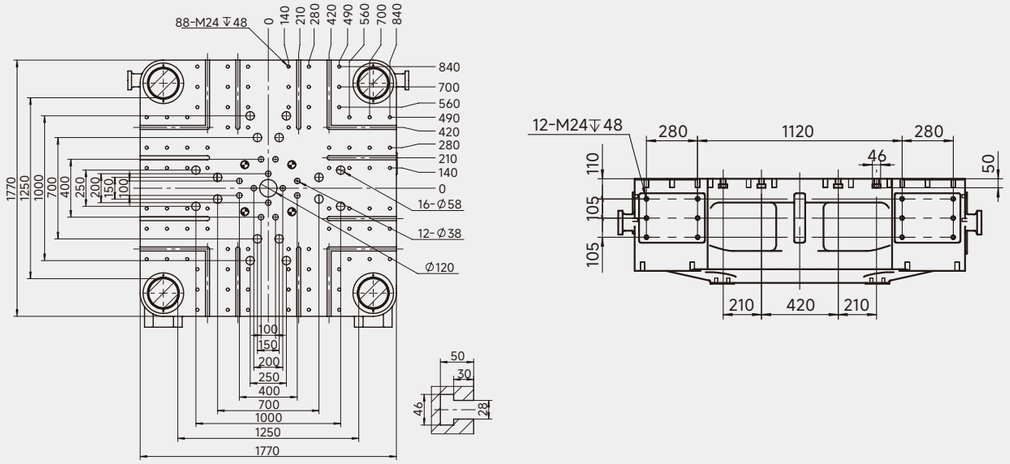
Machine Dimensions (LxWxH)



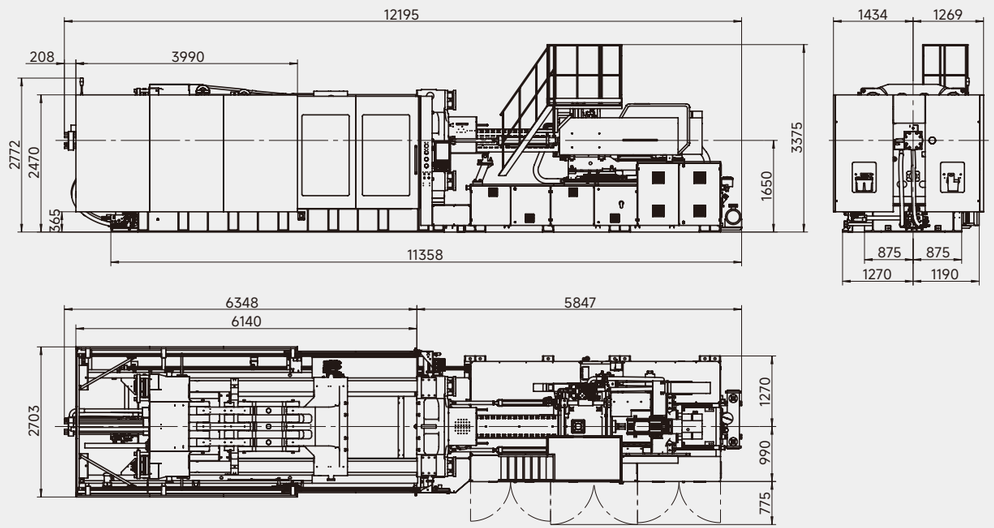
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM1200-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

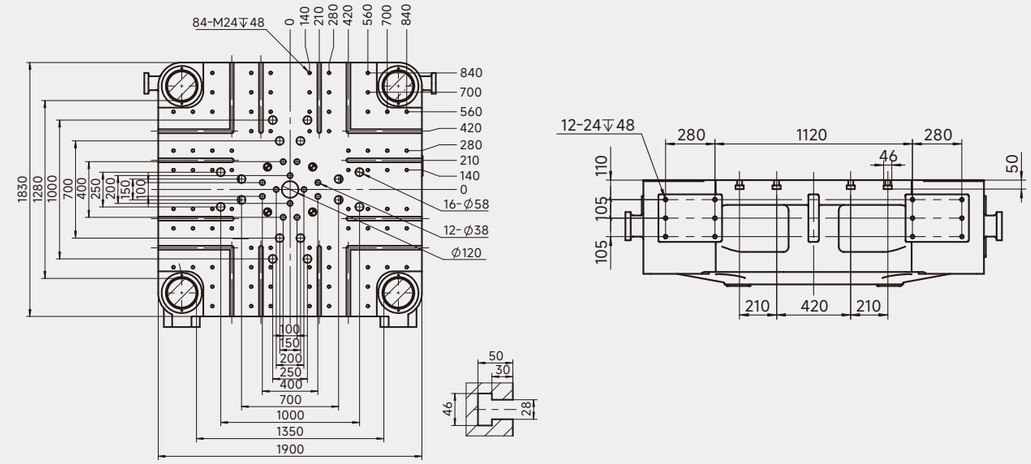


Machine Dimensions (LxWxH)

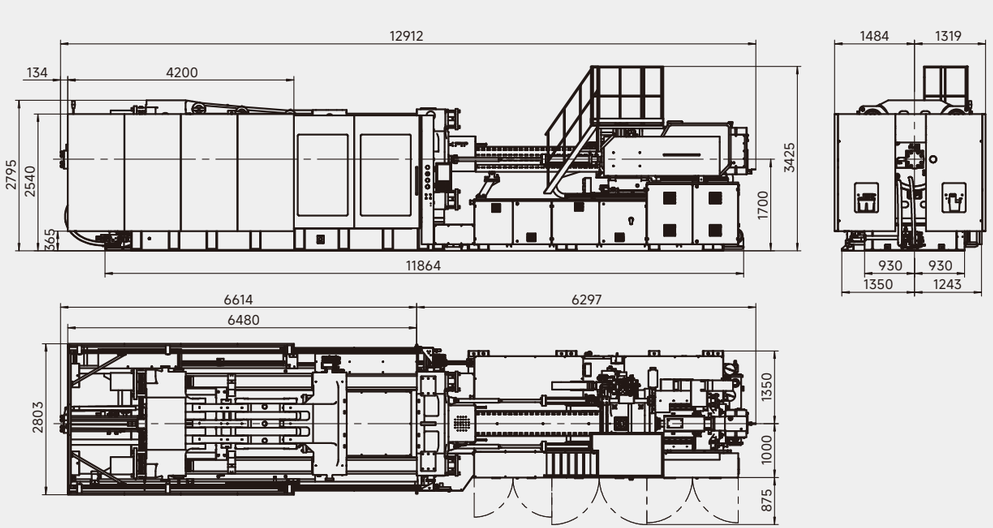


JM1300-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



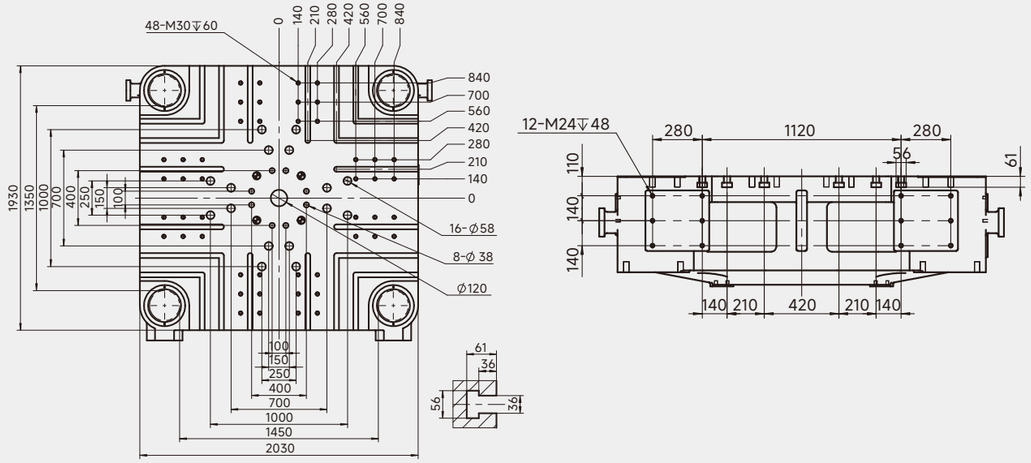
Machine Dimensions (LxWxH)



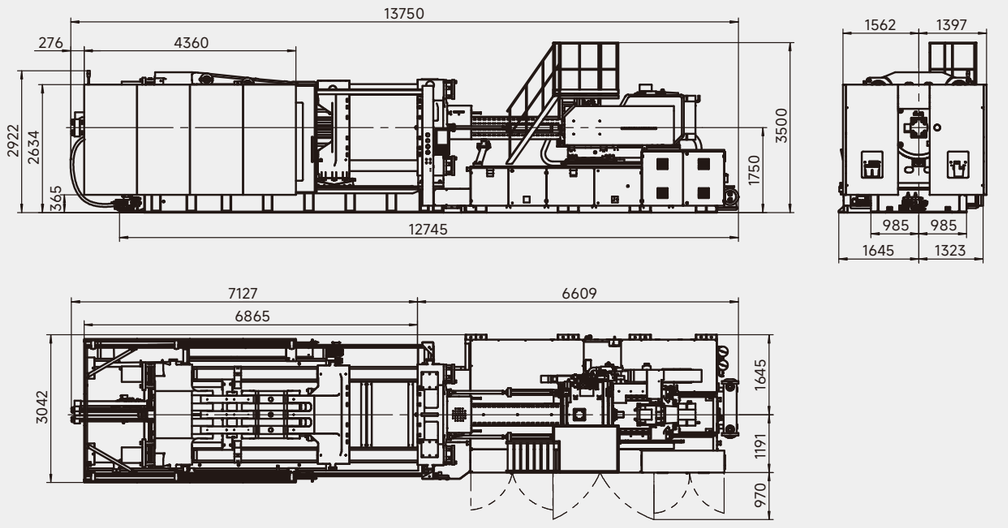
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM1400-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

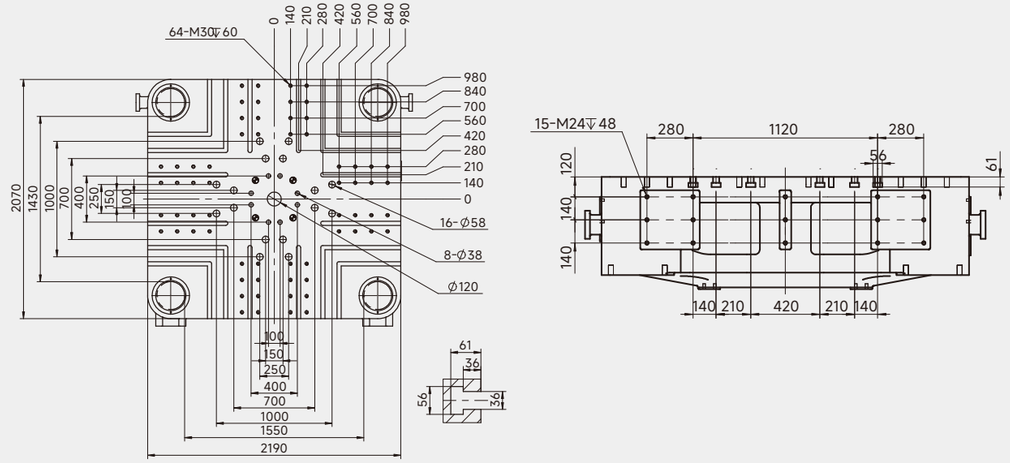


Machine Dimensions (LxWxH)

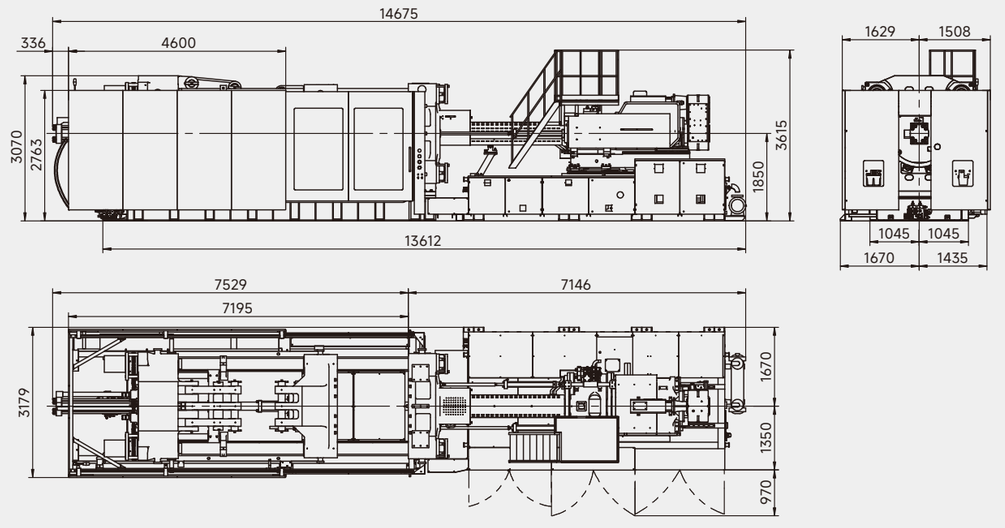


JM1650-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing



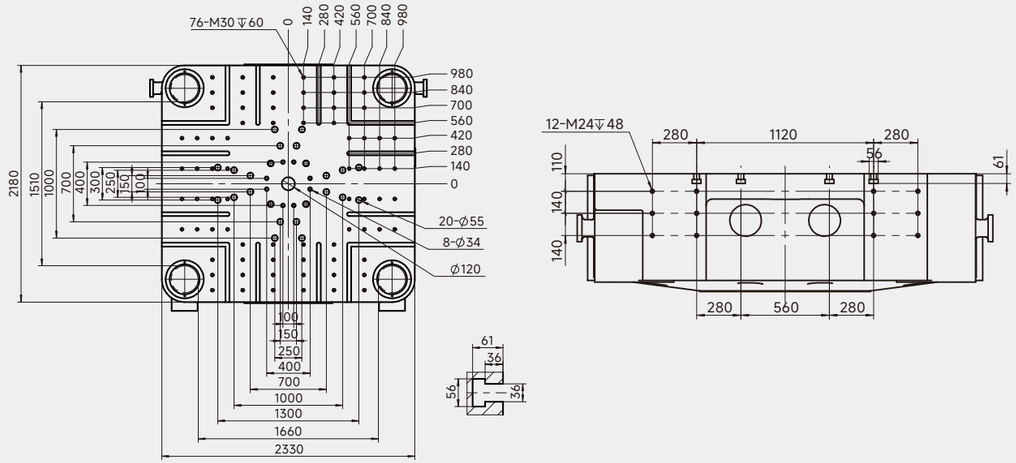
Machine Dimensions (LxWxH)



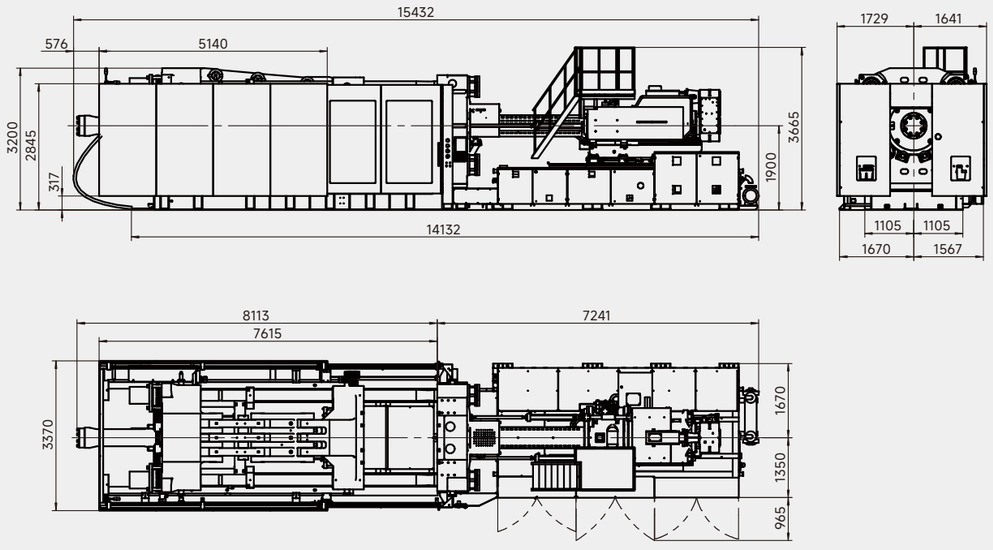
MK7S | Platen Dimensions, Robot Arm Mounting Holes Drawing and Machine Dimensions

JM1850-MK7S

Platen Dimensions, Robot Arm Mounting Holes Drawing

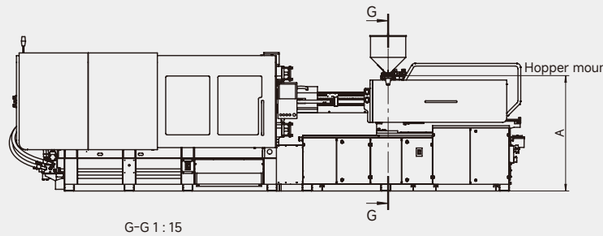


Machine Dimensions (LxWxH)

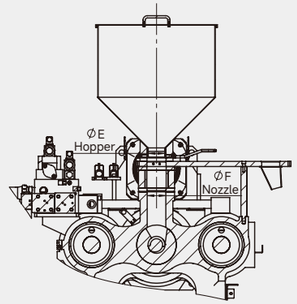


MK7S | Hopper Mounting Dimensions

JM88-MK7S——JM668-MK7S



G-G 1 : 15

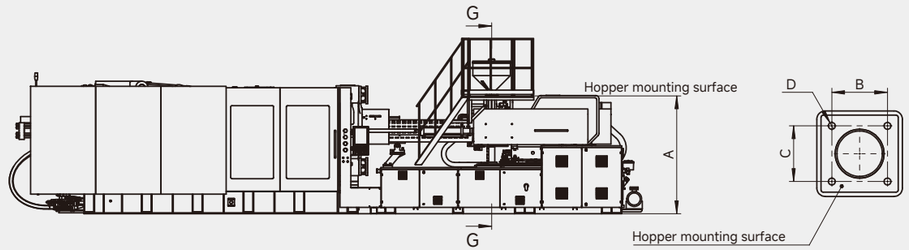


MK7max series hopper mounting dimensions

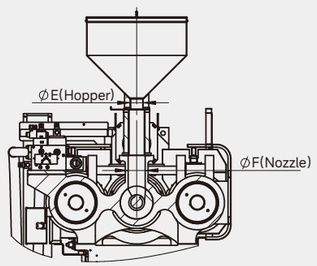
Tonnage	A	B	C	D	E	F
88	1446	110	110	4-M8	58	50
128	1481	110	110	4-M8	58	55
168	1491	110	110	4-M8	58	60
208	1601	110	110	4-M8	58	60
258	1711	130	130	4-M10	73	60
288	1697	130	130	4-M10	73	75
328	1840	130	130	4-M10	73	75
358	1840	130	130	4-M10	73	75
398	1705	130	130	4-M10	73	83
468	1800	130	130	4-M10	73	90
568	1800	130	130	4-M10	73	90
668	1862	130	130	4-M10	73	98

Note: The entire series is not equipped with a standard hopper; a slider hopper is provided as standard.

JM800-MK7S——JM1850-MK7S



G-G 1:30

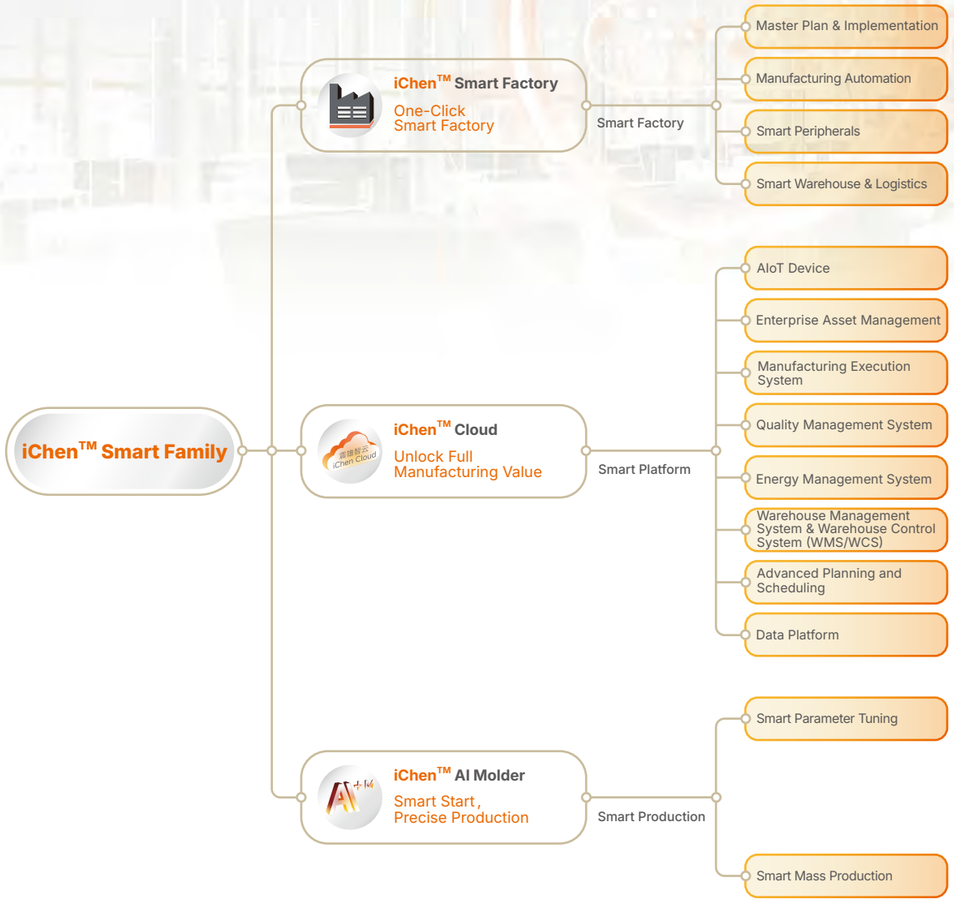


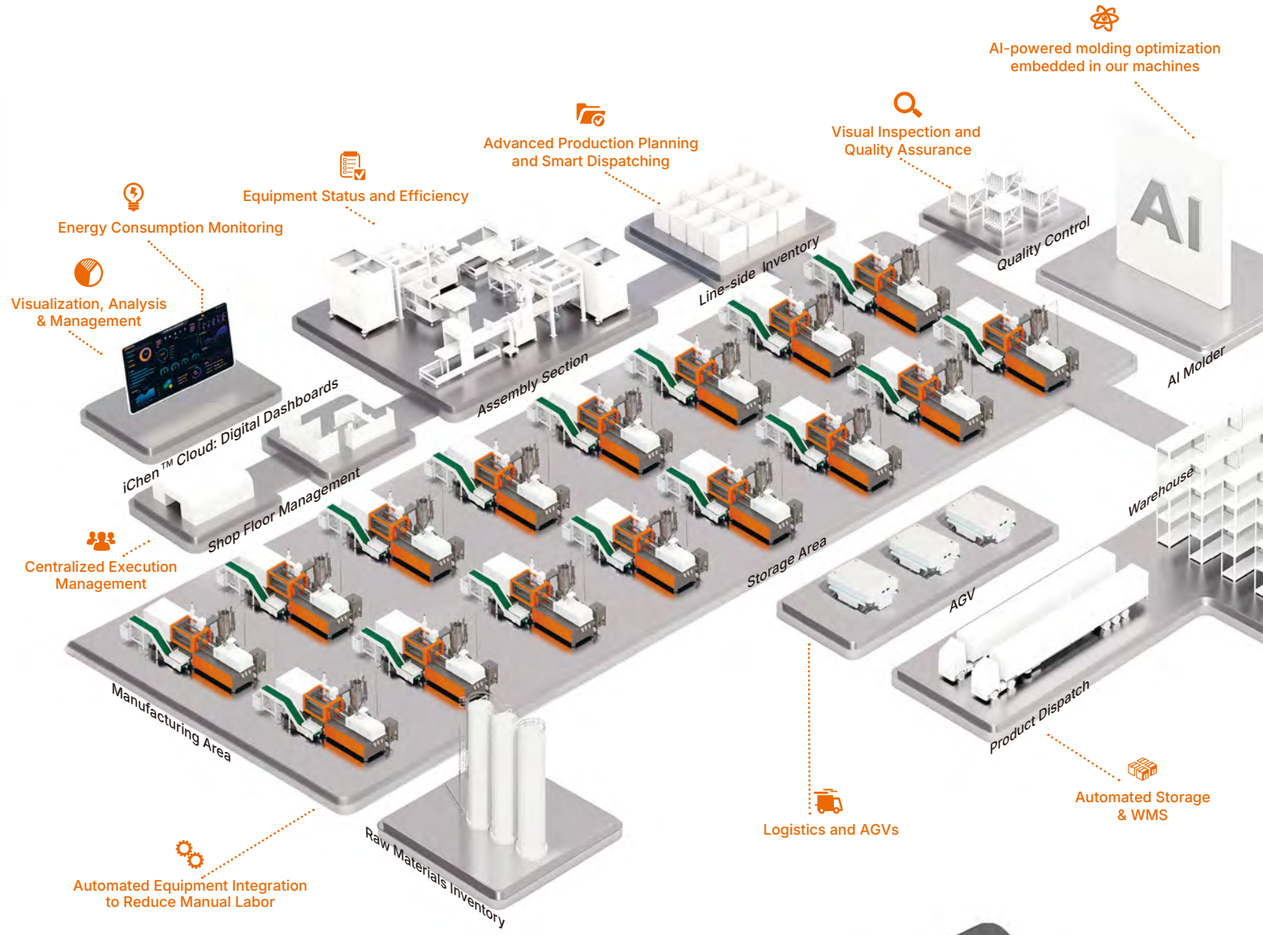
MK7max series hopper mounting dimensions

Tonnage	A	B	C	D	E	F
800	2070	130	130	4-M16	87	110
1000	2200	130	130	4-M16	87	120
1200	2300	130	130	4-M16	87	120
1300	2350	130	130	4-M16	87	135
1400	2425	130	130	4-M16	87	150
1650	2540	130	130	4-M16	87	150
1850	2590	130	130	4-M16	87	150

Note:
1. The entire series is not equipped with a standard hopper. Models from 1000T to 1850T come with a standard hopper mounting base.
2. The 800T model is not equipped with a hopper mounting base. The hopper can be directly mounted on the injection unit, or provided when an optional feeding frame is selected.

iChen™ Smart Family





iChen™ Smart Factory

One-Click Smart Factory

iChen™ Smart Factory delivers plant-wide, end-to-end line engineering and integration. Covering planning and design, auxiliary-system configuration, automation, smart peripherals, and warehouse and logistics setup, we integrate the entire production chain and deliver complete turnkey factory projects.

iChen™ Cloud

Unlock Full Manufacturing Value

iChen™ Cloud is a Smart Manufacturing Operations Management Platform covering Artificial Intelligence Internet of Things (AIoT), Enterprise Asset Management (EAM), Manufacturing Execution System (MES), Quality Management System (QMS), Energy Management System (EMS), Warehouse Management System & Warehouse Control System (WMS/WCS), Advanced Planning and Scheduling (APS) , and the Data Platform. Together, these enable end-to-end digital control with real-time visibility and executive dashboards for faster, data-driven decisions.

iChen™ AI Molder

Smart Start, Precise Production

iChen™ AI Molder is an AI-driven injection-molding solution developed by Chen Hsong Group in collaboration with industry–academia research teams. It integrates AI with injection-molding process expertise to recommend and optimize parameters, stabilize mass production, reduce defects, and increase yield.

iChen™ Smart Family







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Encounter Chen Hsong's craftsmanship where least expected

"Your Vision is Our Mission"