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CHEN HSONG

Add.: Unit 2001, 20th Floor, Citicorp
Centre, 18 Whitfield Road,
Hong Kong

Tel.: +852 2665-3888 | 2665-3222

Email: mr@chenhsong.com

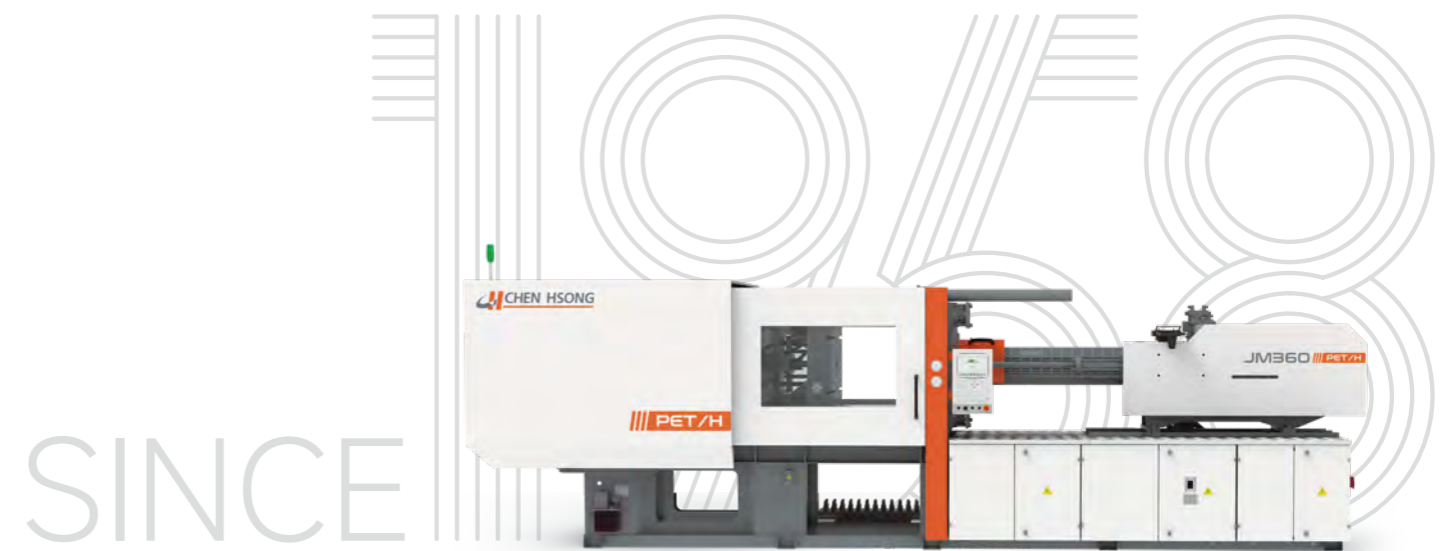
Web.: www.chenhsong.com

CH 20260410-CV

PET Series

Specialising in PET and Storage Products

JM-PET/S2, JM-PET/H



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.

PET Series | Tailored Efficiency

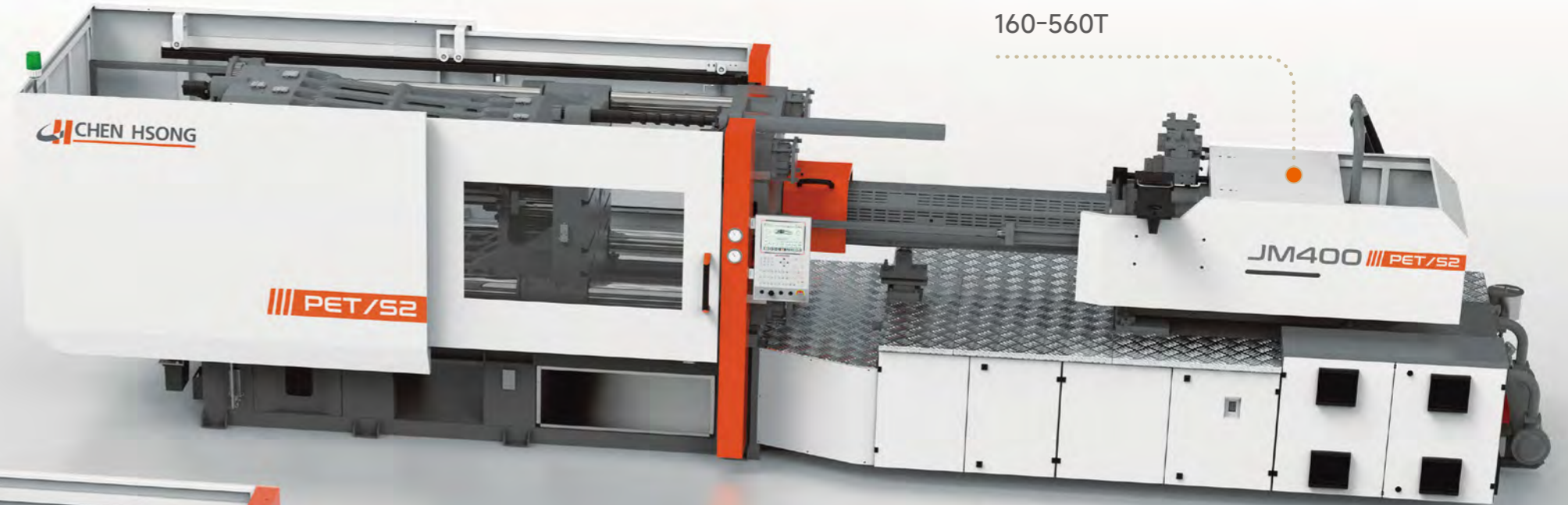
JM-PET/H

Dedicated for Daily-Use & Storage Products
160-560T



JM-PET/S2

Dedicated Preform Machines
160-560T



* Photos are for reference only.

PET/S2 | Dedicated Preform Machines

Efficient, Stable and Energy Saving

Specialised Screw Design

- 25:1 specialised PET screw for optimal speed and melt quality.
- For Cosmetics: Ensure flawless, uniform colour for premium bottle appeal.
- For Water/Oil Bottles: Boosts plasticising 20%+ for high-output, clear bottles.



Optional: eDrive

- Boosts production efficiency 10%-30% by enabling simultaneous plasticising with mold open/close and ejection.



Stable, Precise, and Convenience

Optimised ejector

- Greater ejection stroke/force allows efficient, versatile production with complex molds.



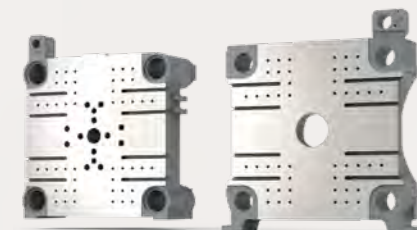
Large Water Manifold

- Boost cooling, reduces blockage, improves product stability.



T-Slots and Mounting Holes

- Easy mold installation, improves reliability.



Optimised Hydraulic Circuit Design

- Ensures minimal pressure loss for precise mold opening positioning.



JM-PET/S2 Dedicated Preform Machines

PET/S2 | Application Cases

The Professional Choice for PET: Precision, Efficiency & Premium Finish

The PET/S2 series is purpose-built to be faster, more specialised and efficient. We optimised various technology such as the plasticising rate, injection capacity, and market-specific designs (water-based, oil-based, wide-mouth, and pharmaceutical preforms), making it a key player in the PET preform market. With its performance and flexibility in customisation, the PET/S2 masters every segment, establishing it as the premium choice within our PET machine lineup.

Common Use Cases for JM-PET/S2

- Food & Beverage Industry

Food-Grade Oil, Water, Seasoning Bottles
Precise material processing technology ensures packaging safety and high efficiency.

- Beauty Industry

Skincare Bottles
Precision melt homogeneity and consistent colour blending allow for maximum versatility, meeting the strict demands of diverse preform geometries and aesthetics.

- Pharmaceutical Industry

Pill Bottles
Consistent quality in full compliance with stringent industry standards.



Water Bottles

High-precision molding technology delivers a crystal-clear performs, enhancing your product's market appeal.

Cavities: 96
Material: PET
Weight: 16.5g
Cycle time: 10s



Skincare Bottles

Clear: Optimal clarity perfect for aesthetic-driven industry's aesthetic standards.
Opaque: Precise control and specialised screw to achieve perfect opaqueness for light-sensitive cosmetics.

Cavities: 24
Material: PET
Weight: 38g
Cycle time: 40s



Wide-Mouth Preforms

Condiment Bottle: Easy to use, maintaining good seal and durability.
Snack Jars: Wide-mouth for easy access. Optimal clarity perfect for transparency.

Cavities: 16
Material: PET
Weight: 16g
Cycle time: 10.5s

PET/S2 | Specifications

Specification	Unit	JM160-PET/S2	JM200-PET/S2	JM260-PET/S2	JM320-PET/S2	JM400-PET/S2	JM480-PET/S2	JM560-PET/S2						
Injection Unit														
Screw Diameter	mm	52	60	67	67	75	75	83	83	90	90	98	90	98
Screw L/D Ratio	L/D	25	25	25	25	25	25	25	25	25	25	25	25	25
Screw Stoke	mm	230	260	300	300	335	335	375	375	415	415	470	415	470
Theoretical Injection Volume	cm ³	488	735	1058	1058	1480	1480	2029	2029	2640	2640	3545	2640	3545
Max. Injection Capacity	g	571	860	1237	1237	1732	1732	2374	2374	3089	3089	4148	3089	4148
Max. Injection Pressure	kgf/cm ²	1388	1349	1082	1425	1137	1448	1182	1453	1236	1504	1268	1504	1268
Max. Injection Rate	g/s	246	318	504	383	600	589	721	681	883	817	968	817	968
Max. Injection Speed	mm/s	98.9	96.3	122	92.9	116	113.9	113.9	107.5	118.7	109.7	109.7	109.7	109.7
Max. Screw Rotation Speed	rpm	163	145	149	149	122	153	136	157	130	147	113	147	113
Max. Nozzle Contact Force	ton	5.8	5.8	5.8	9	9	9	9	9	9	9	9	9	9
Max. Nozzle Stroke	mm	250	280	280	330	330	360	360	420	420	420	420	420	420
Clamping Unit														
Max. Clamping Force	ton	160	200	260	320	400	480	560						
Max. Clamping Stroke	mm	420	490	530	600	700	770	835						
Space Between Tie Bars (HxV)	mm	460×460	530×530	580×580	660×660	760×710	810×810	855×855						
Mold Thickness (Min-Max)	mm	160-520	180-550	195-610	220-660	250-730	275-810	330-850						
Max. Daylight	mm	940	1040	1140	1260	1430	1580	1685						
Max. Ejection Force	ton	5.8	9.3	11.1	18.2	18.2	18.2	18.2						
Max. Ejection Stroke	mm	140	165	180	200	220	250	250						
Mold Register Hole	mm	100	160	160	160	200	200	200						
Other														
System Pressure	MPa	17.5	17.5	17.5	17.5	17.5	17.5	17.5						
Pump Power	kW	25	29	38	38	51	67	67	67	38+38	51+38	51+38	51+38	51+38
Max. Heating Power	kW	17.9	21.6	26.3	26.3	34.3	33.8	42.1	41	49.3	49.3	56.7	49.3	56.7
Temperature Control Zone		5+1	5+1	6+1	6+1	6+1	6+1	6+1	7+1	7+1				
Machine Dimensions (LxWxH)	m	5.6×1.2×1.7	6×1.45×1.85	6.7×1.5×1.97	7.2×1.6×2.1	8.5×1.85×2.1	9.1×1.9×2.2	9.3×1.95×2.3						
Oil Tank Capacity	L	280	380	430	560	750	820	820						
Machine Weight	ton	4.6	6.1	8.1	10.3	13.1	16.7	18.6						

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PET/S2 | Features

P.S. ●Standard, ○Optional, ×Not Available.

	PET/S2	
Injection Unit	1. Specialised PET-Plasticising Components	●
	2. High-Speed Wear-Resistant Hydraulic Motor	●
	3. Lubrication Pump (Manual) For Injection Unit	●
	4. Dual Injection Carriage Cylinders	●
	5. Independent Digital Back Pressure Control	●
	6. Hopper Slider	●
	7. Specialised PET Feed Throat	●
	8. High-Rigidity Injection Carriage	●
	9. eDrive (Servo-Electric Recovery/Plasticising)	○
	10. Plasticising Motor Power Upgrade	○
	11. Automatic Cooling Control for Feed Throat	○
	12. Powder-Coated Hopper	○
	13. Extended Nozzle	○
	14. Customised Nozzle Designs (Orifice Diameter and Radius)	○
	15. Lubrication Pump (Automatic) For Injection Unit	○
	16. Nano Infrared Heater Bands	○
	17. Ceramic Heater Bands	○
	18. Pneumatic Valve Gate Control (1 Set)	○
	19. Pneumatic Shut-Off Nozzle	○

	PET/S2	
Clamping Unit	1. Increased Ejection Force and Stroke	●
	2. Graphite Bronze Bushings on Moving Platen (Grease Lubricated)	●
	3. Anti-Contamination Design for Preforms	●
	4. Lubrication Pump (Manual) For Mold Adjustment	●
	5. Stainless Steel Product Chute	●
	6. Reserved Core Pull Positions (Wiring Only, No Hydraulics)	●
	7. Platen with T-Slots (Horizontal) and Mounting Holes	●
	8. Multi-Function Air Blow Device	○
	9. Specialised Water Manifolds	○
	10. Cover For Dehumidifier	○
	11. Custom Mounting Holes	○

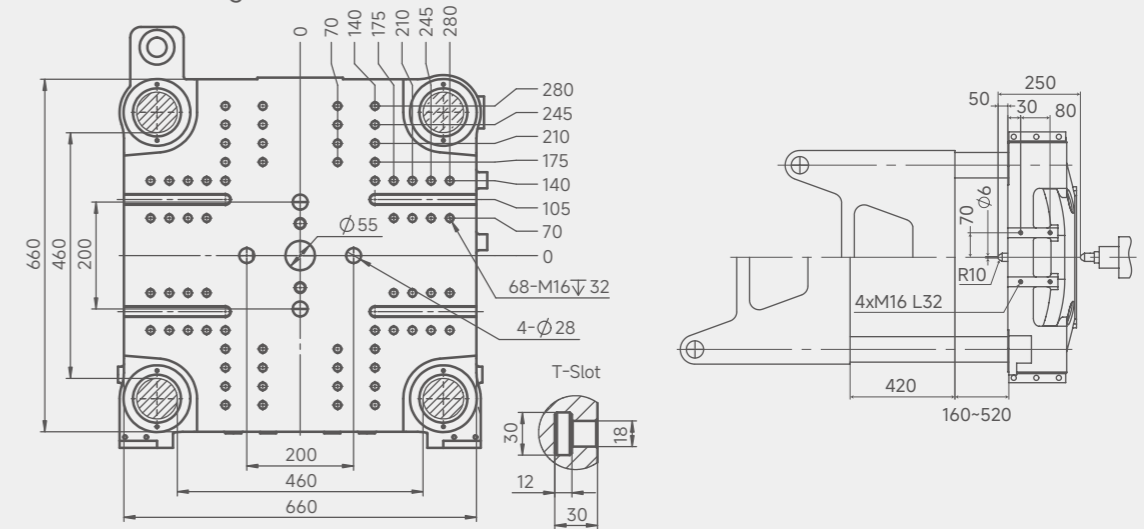
	PET/S2	
Hydraulics Unit	1. High-Precision Bypass Oil Filter	●
	2. External Oil Cooler	●
	3. Oil Temperature Detection	●
	4. Upsized Power Pack	●
	5. Pneumatic Needle Valve Control (1 Set)	●
	6. Oil Temperature Alarm and Control	○
	7. Multiple Power Options	○
	8. Proportional Valve for Mold Opening	○

	PET/S2	
Electrical Unit	1. 12-inch Touch-Screen Controller	●
	2. Robot Interface and Programme	●
	3. Alarm Light	●
	4. Networking Function	○
	5. Digital Electric Meter Function Installation	○
	6. Special Group Sockets	○

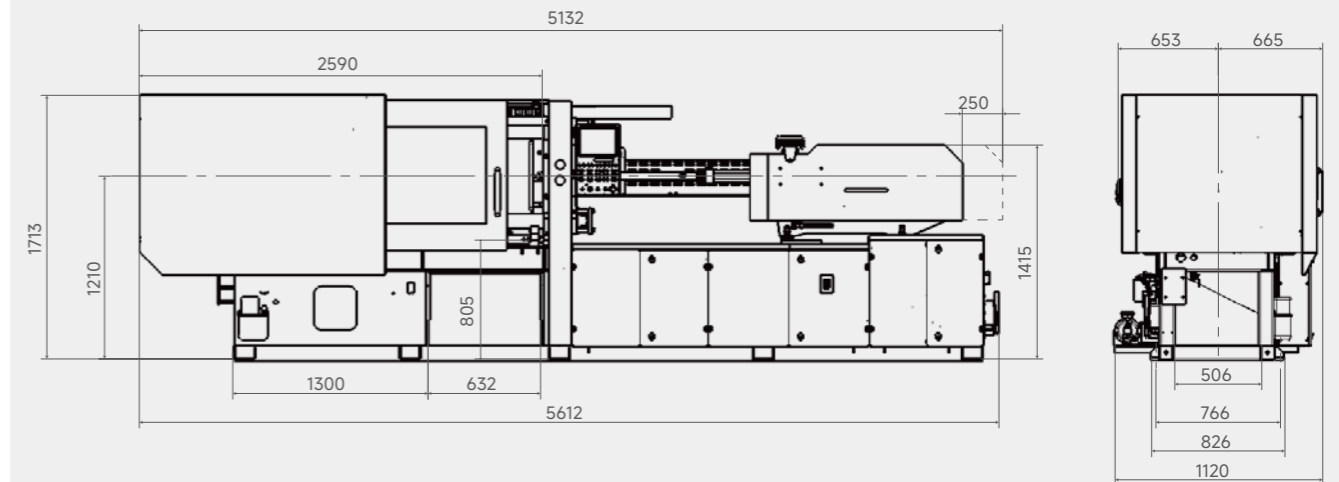
PET/S2 | Platen, Machine and Robot Arm Dimensions

JM160-PET/S2

Standard: T-Slot + Mounting Holes



Machine Dimensions (LxWxH)



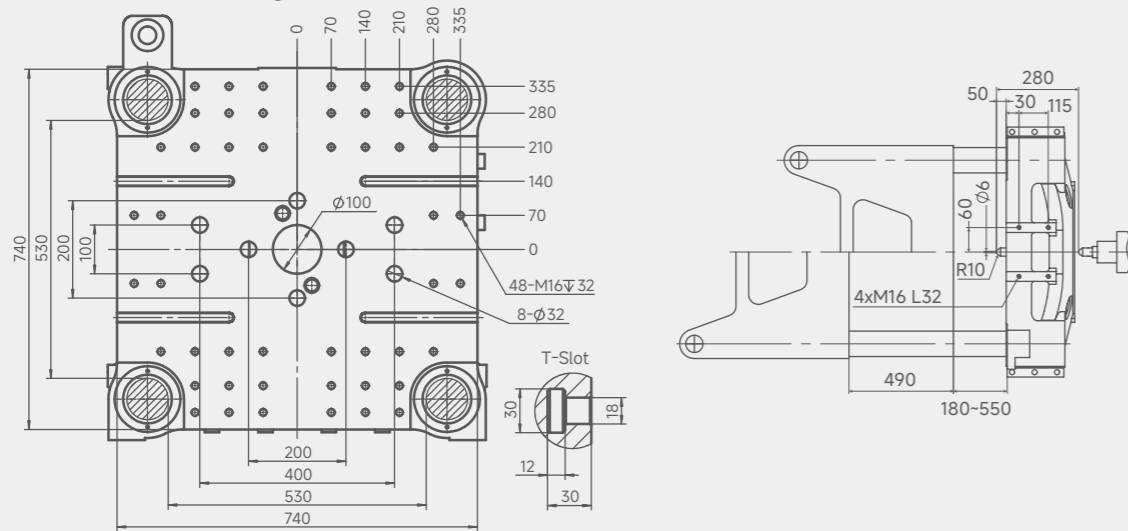
JM160-PET/S2-φ52

*To enhance the using experience, the company keeps upgrading the products and reserves the right to change the product specification and parameters without prior notice. The final interpretation to the above specification and parameters belongs to the company.

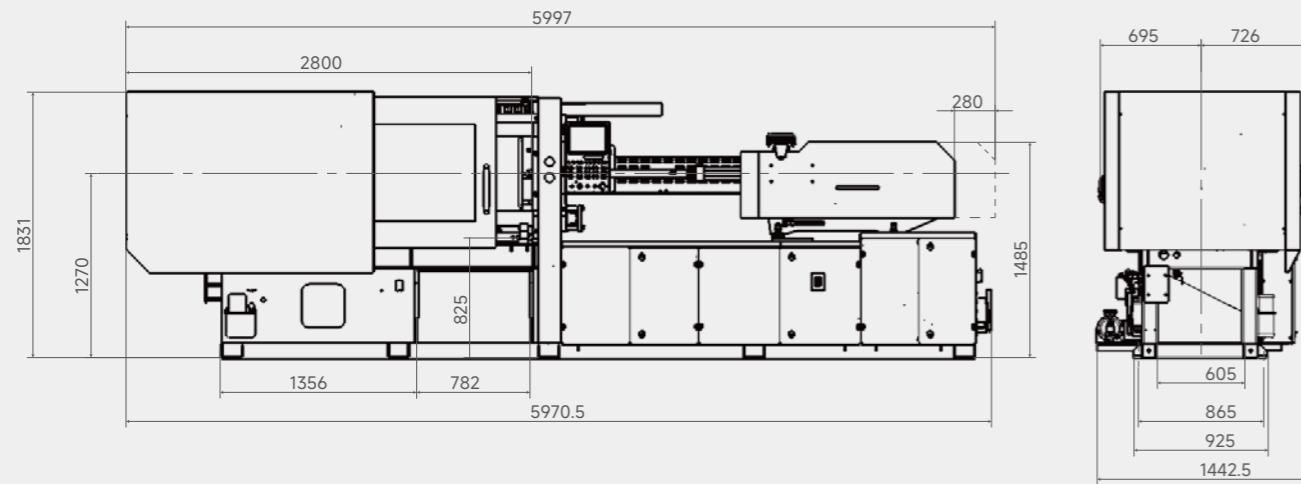
PET/S2 | Platen, Machine and Robot Arm Dimensions

JM200-PET/S2

Standard: T-Slot + Mounting Holes



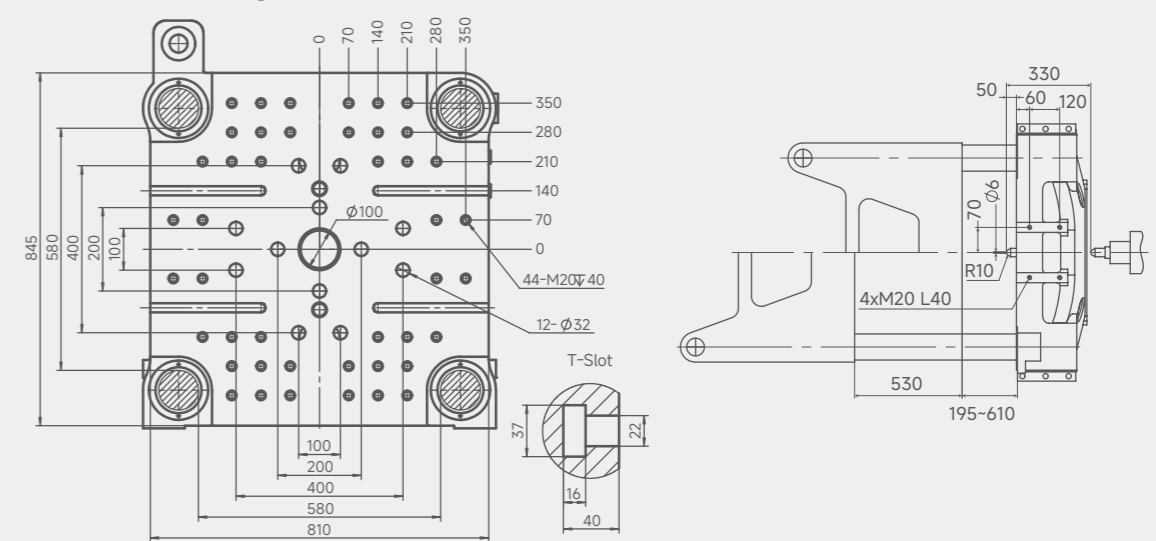
Machine Dimensions (LxWxH)



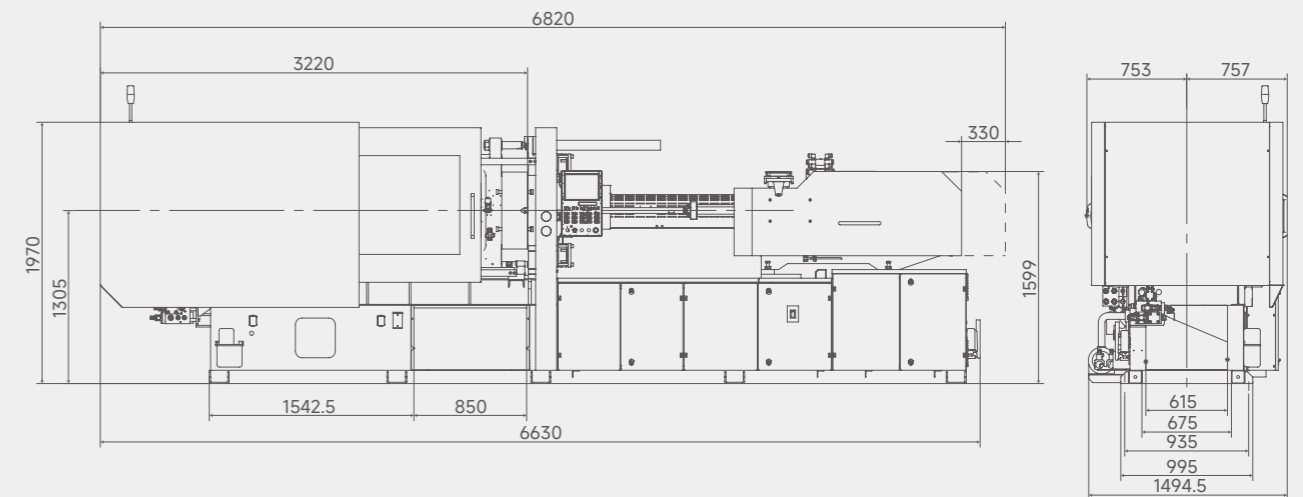
JM200-PET/S2- $\phi 60$

JM260-PET/S2

Standard: T-Slot + Mounting Holes



Machine Dimensions (LxWxH)



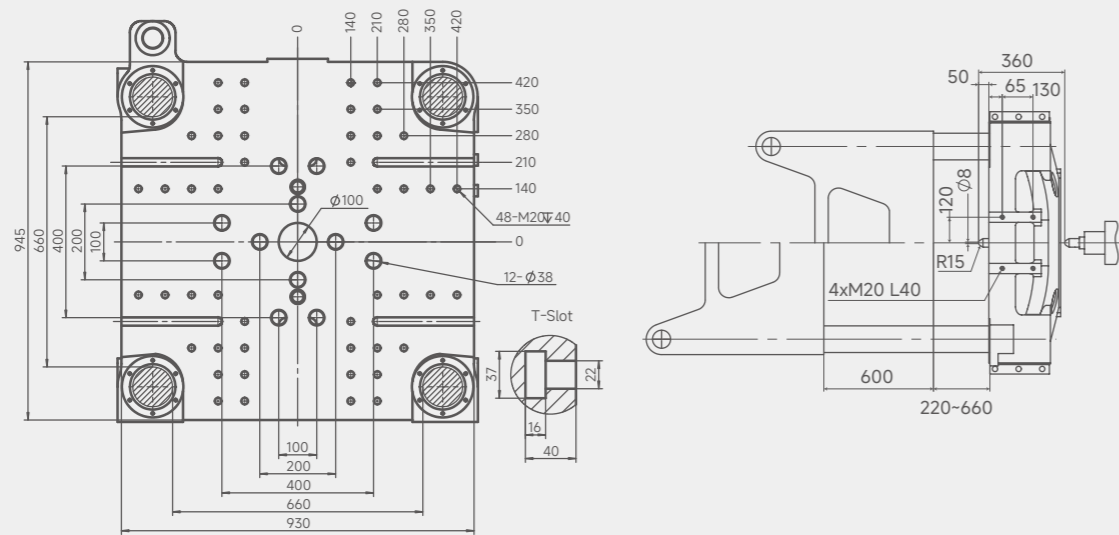
JM260-PET/S2- $\phi 67$

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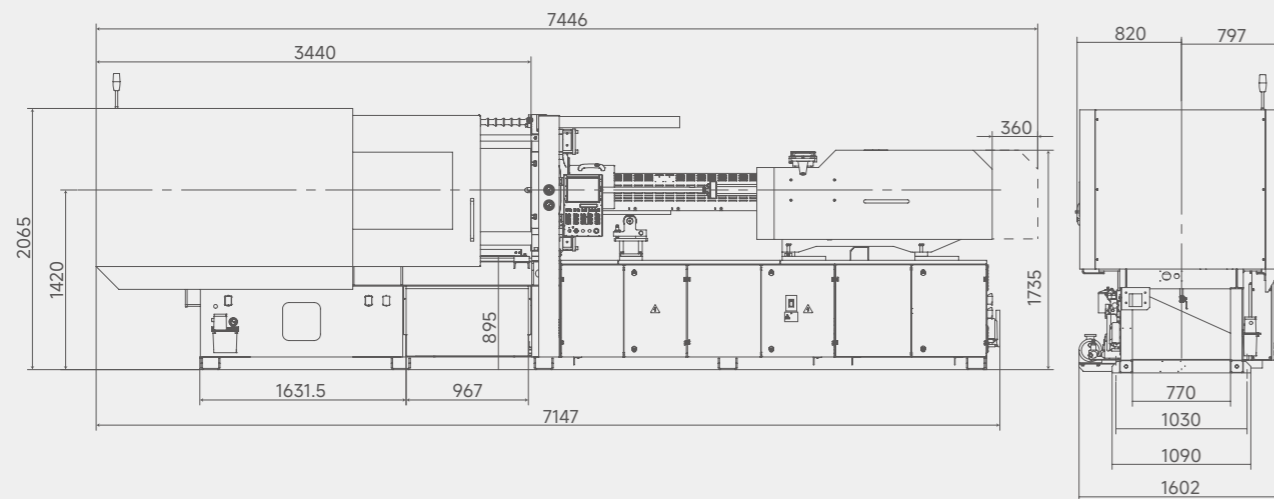
PET/S2 | Platen, Machine and Robot Arm Dimensions

JM320-PET/S2

Standard: T-Slot + Mounting Holes



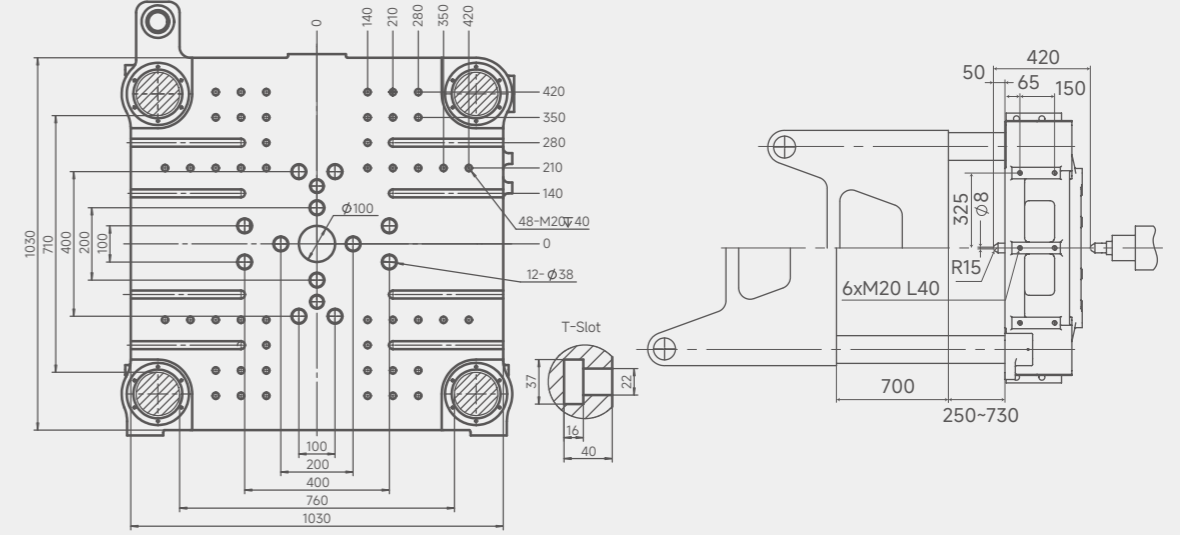
Machine Dimensions (LxWxH)



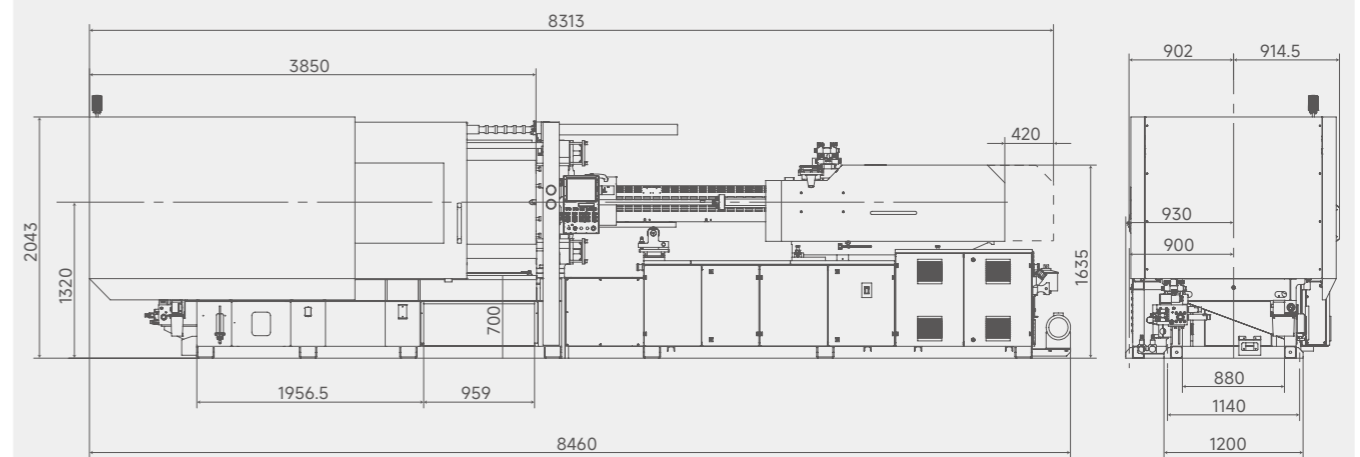
JM320-PET/S2-φ75

JM400-PET/S2

Standard: T-Slot + Mounting Holes



Machine Dimensions (LxWxH)



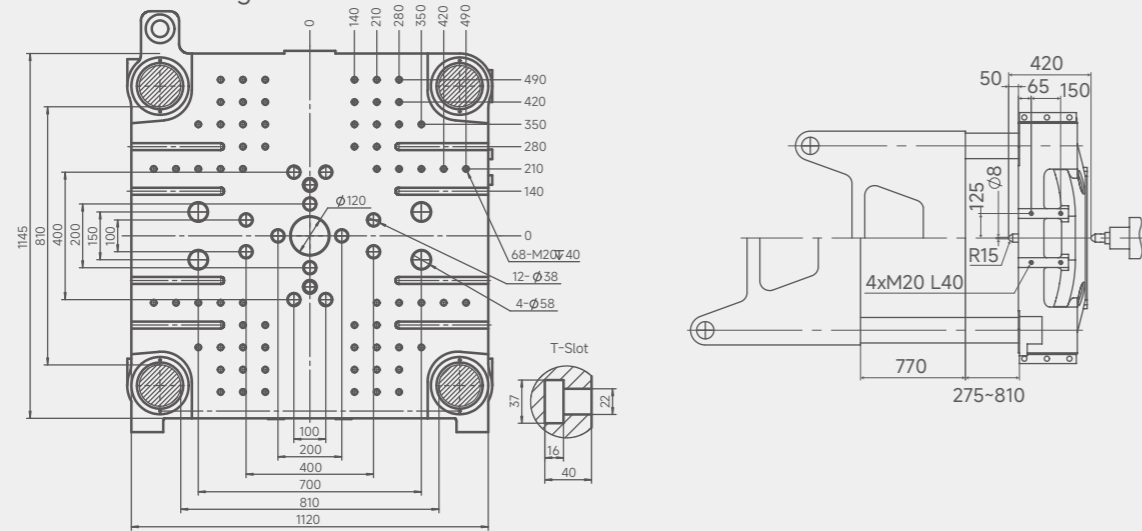
JM400-PET/S2-φ83

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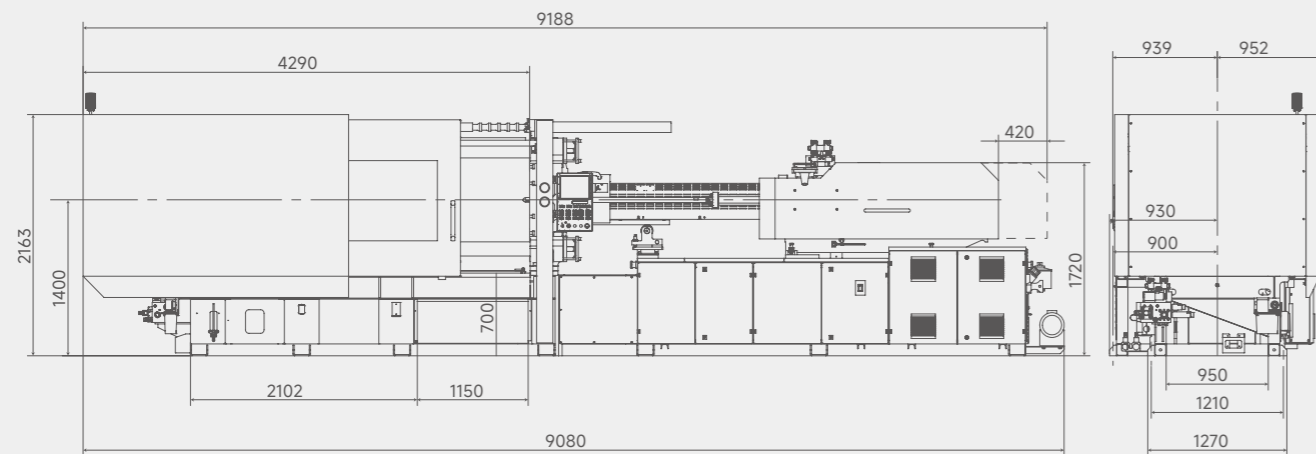
PET/S2 | Platen, Machine and Robot Arm Dimensions

JM480-PET/S2

Standard: T-Slot + Mounting Holes



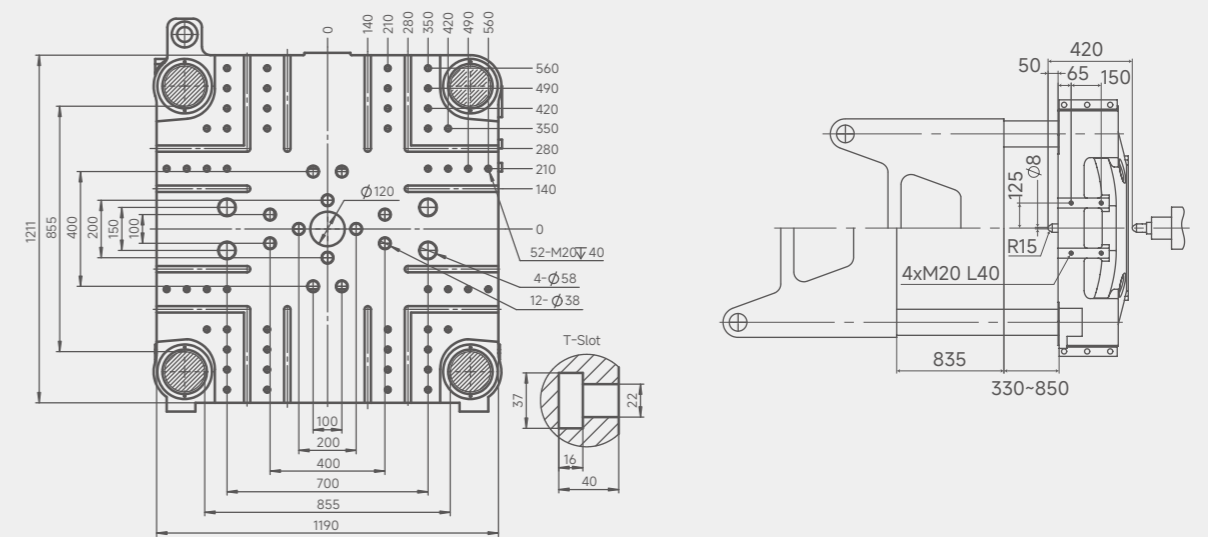
Machine Dimensions (LxWxH)



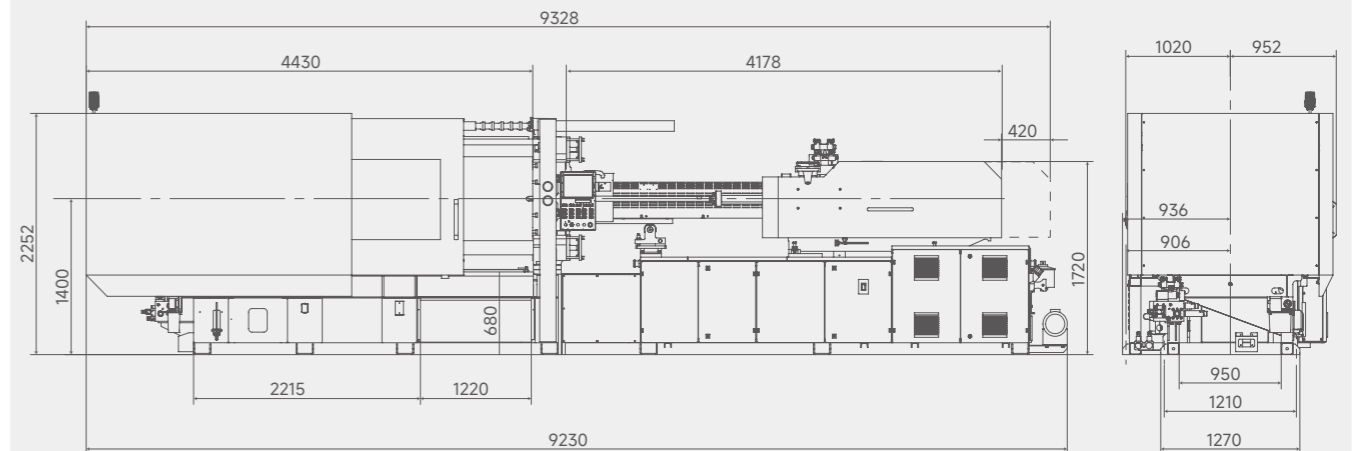
JM480-PET/S2-φ90

JM560-PET/S2

Standard: T-Slot + Mounting Holes



Machine Dimensions (LxWxH)



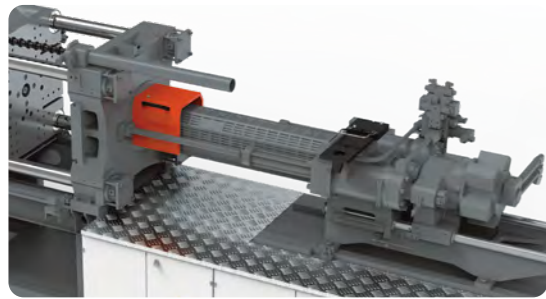
JM560-PET/S2-φ90

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PET/H | Dedicated for Daily-Use & Storage Products

Efficient

Delivering low-shear, uniform plasticisation that boosts efficiency by 20%, it increases injection and melting speeds by over 10% and outperforms peers with 10-22% faster dry cycles.



Energy Saving

eDrive (servo-electric recovery/plasticising) and barrel infrared heating system as optional, the energy consumption for melting is reduced by 20-30%. A new energy-saving hydraulic system achieves high-efficiency performance through reduced friction and optimised low-consumption circuits.



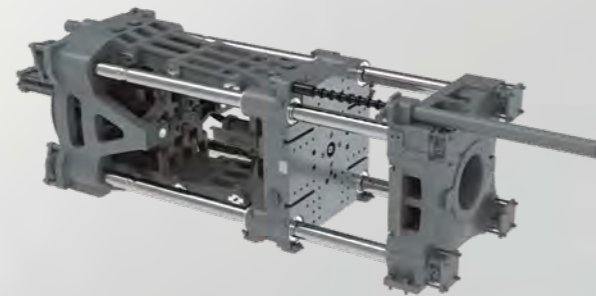
Specialised

Designed specifically for PET, our specialised unit uses a high-efficiency, chrome-plated screw to ensure optimal mixing with low shear and energy consumption. This mild processing prevents thermal degradation and yellowing, guaranteeing superior clarity, colour stability, and precise dimensional control.



Stable

The high-tensile steel camping unit and mold, ensures uniform molding and minimal deformation for precise, significantly enhance product precision and structural stability.



JM-PET/H Specialised Machine for Storage and Organisation

PET/H | Case of daily storage application

For high clarity and sustainability

Engineered specifically for the household storage market, the PET/H machine delivers efficient, stable, and intelligent performance. It meets diverse packaging demands and excels in the following applications:

Common Use Cases for PET/H:

- PET Storage Production

Designed for stable, high-volume output, it produces premium, retail-ready items with a crystal-clear appearance (>90% transparency) and superior finish.

- Unlock PET Production Capability

Transform your existing PP/PS facility with our specialised PET solution. We address technical challenges and resolve defects to facilitate a hassle-free transition to high-speed, high-quality manufacturing.



Action Figure Box

High-clarity, significantly enhancing the product's premium aesthetics.

Cavity: 1

Weight: 225g

Size: 195(L)×66(H)×67(H),Thickness: 2mm

Material: PET and Recycled PET

Drying temperature: 170°C for 4 hours

Percentage of Regrind in the Blend: 10%

Screw Diameter: D75

Shoe Box

Deformation-resistant and provides ultimate protection and security during storage and transit.

Cavity: 1

Weight: 395g

Size: Size:256(L)×145(H)×128(H),Thickness: 2mm

Material: PET and Recycled PET

Drying temperature: 170°C for 4 hours

Percentage of Regrind in the Blend: 10%

Screw Diameter: D75

PET/H | Specifications

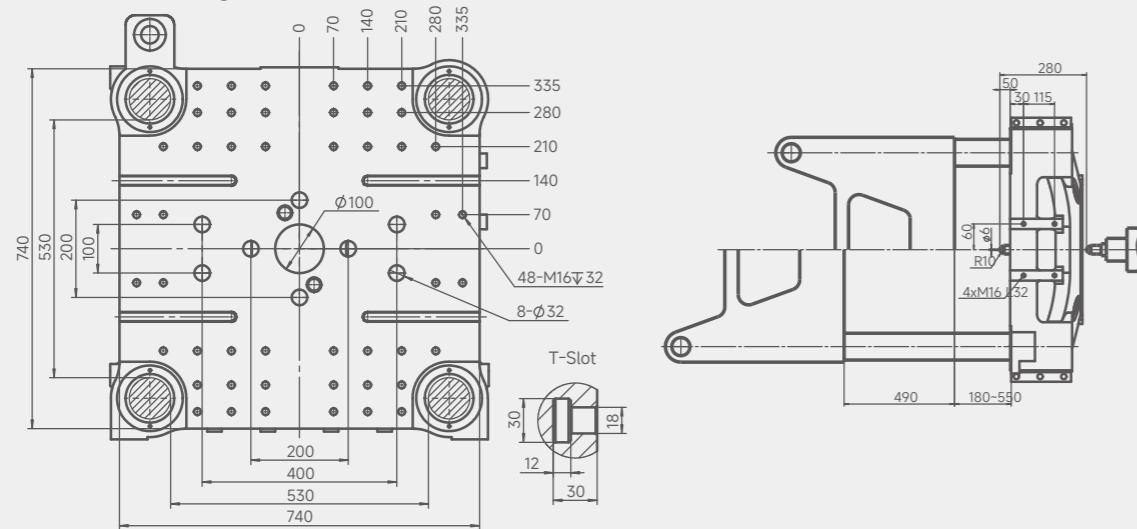
Specifications	Unit	JM160-PET/H	JM200-PET/H	JM260-PET/H	JM320-PET/H	JM360-PET/H	JM400-PET/H	JM480-PET/H	JM560-PET/H
Injection Unit									
Screw Diameter	mm	41	46	52	60	67	67	75	83
Screw L/D Ratio	L/D	25	25	25	25	25	25	25	25
Screw Stoke	mm	205	230	260	300	335	335	375	415
Theoretical Injection Volume	cm ³	270	382	551	847	1180	1180	1655	2244
Max. Injection Capacity	g	317	447	646	992	1382	1382	1938	2627
Max. Injection Pressure	kgf/cm ²	1775	1774	1796	1777	1815	1815	1780	1768
Max. Injection Rate	cm ³ /s	164	207	260	328	402	402	469	594
Max. Injection Rate	g/s	192	242	304	384	470	470	548	695
Max. Injection Speed	mm/s	124.5	124.7	122.4	116.1	114.0	114.0	106.1	109.8
Max. Screw Rotation Speed	rpm	200	200	190	190	190	190	175	160
Max. Nozzle Contact Force	ton	4.5	4.5	4.5	9	9	9	9	9
Max. Nozzle Stroke	mm	280	280	280	360	360	420	420	420
Clamping Unit									
Max. Clamping Force	ton	160	200	260	320	360	400	480	560
Max. Clamping Stroke	mm	420	490	530	600	640	700	770	835
Space Between Tie Bars (HxV)	mm	460×460	530×530	580×580	660×660	710×670	760×710	810×810	855×855
Mold Thickness (Min-Max)	mm	160-520	180-550	195-610	220-660	220-680	250-730	275-810	330-850
Max. Daylight	mm	940	1040	1140	1260	1320	1430	1580	1685
Max. Ejection Force	ton	4.2	6.7	7.7	7.7	7.7	11.1	11.1	11.1
Max. Ejection Stroke	mm	140	150	170	170	170	220	220	250
Mold Register Hole	mm	100	160	160	160	160	200	200	200
Other									
System Pressure	MPa	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Pump Power	kW	22	30	35	51	59	59	65	86
Max. Heating Power	kW	12.6	15.3	19.8	25.6	30.6	30.6	36.3	42.9
Temperature Control Zone		5+1	5+1	6+1	6+1	6+1	6+1	7+1	7+1
Machine Dimensions (LxWxH)	m	5.1×1.4×1.7	5.5×1.5×1.9	6.3×1.6×2.0	6.8×1.7×2.1	6.9×1.7×2.1	7.8×1.8×2.0	8.3×1.9×2.2	8.6×2.0×2.2
Oil Tank Capacity	L	240	280	400	520	520	690	730	730
Whole Machine Weight	ton	4.4	5.8	7.8	10	11	12.9	16.5	18.4

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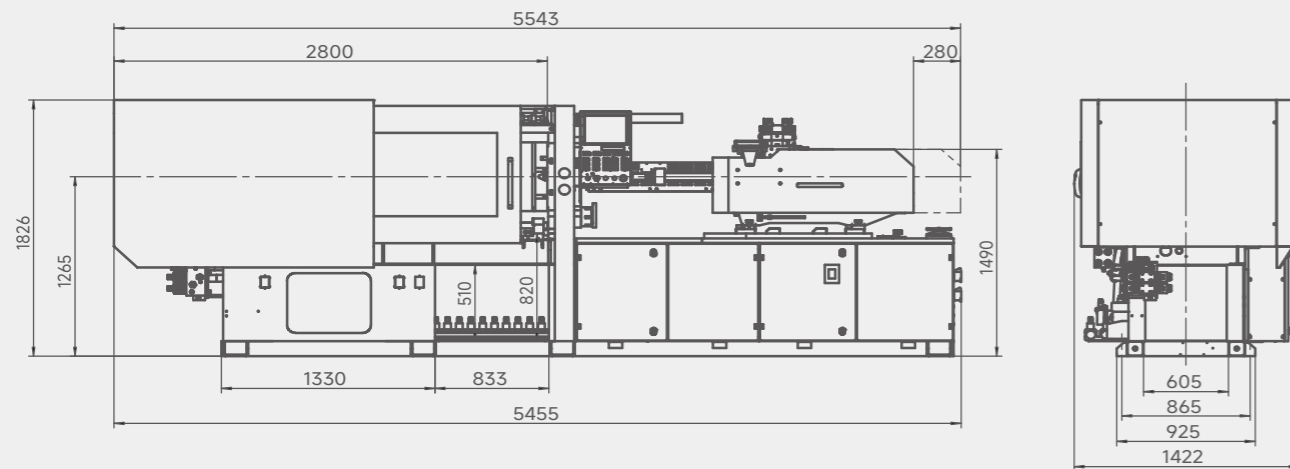
PET/H | Platen, Machine and Robot Arm Dimensions

JM200-PET/H

Standard: T-Slot + Mounting Holes



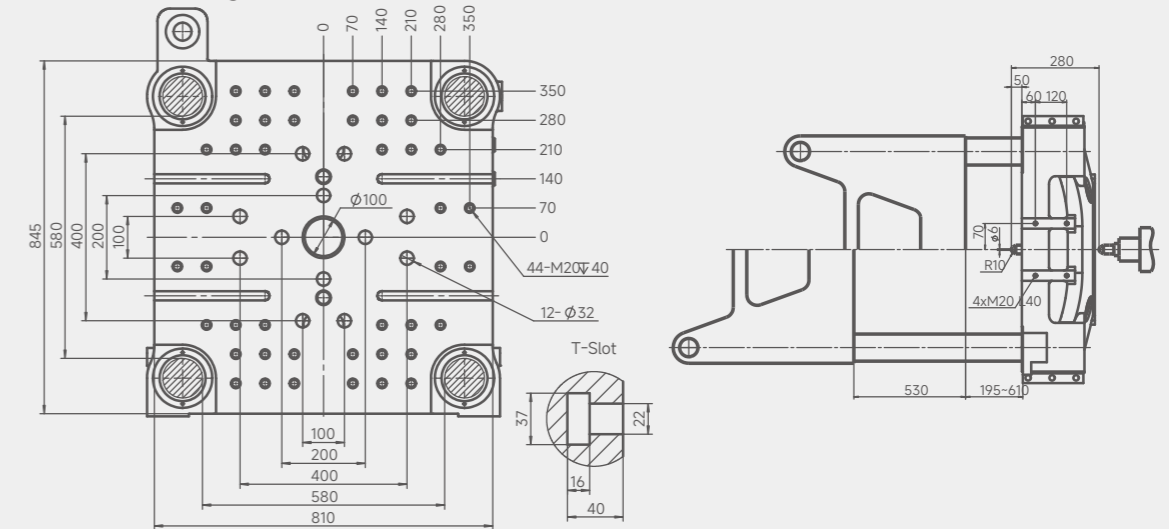
Machine Dimensions (LxWxH)



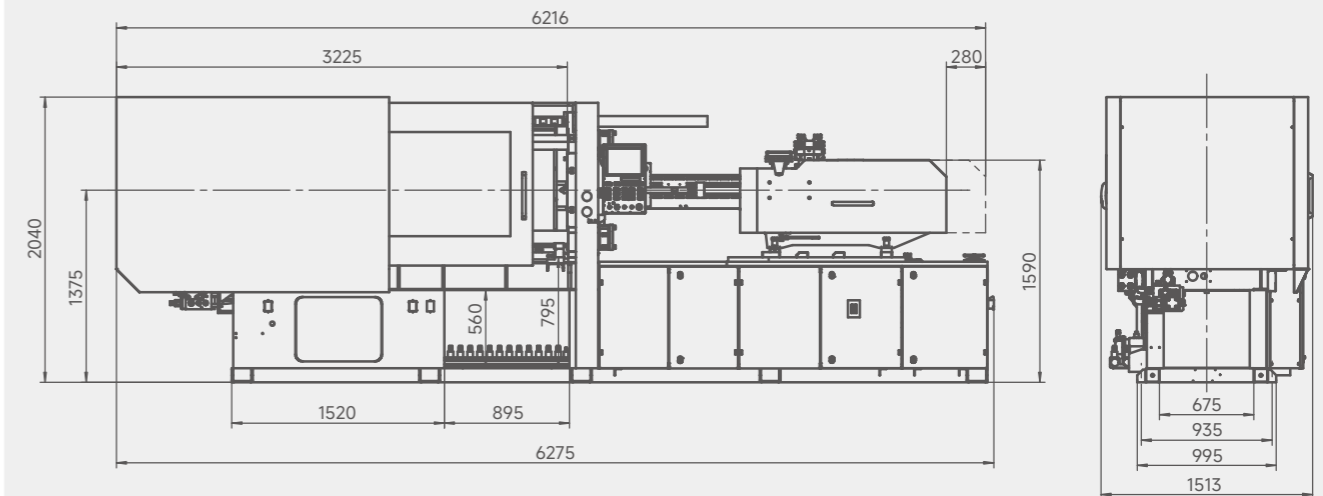
JM200-PET/H- ϕ 46

JM260-PET/H

Standard: T-Slot + Mounting Holes



Machine Dimensions (LxWxH)



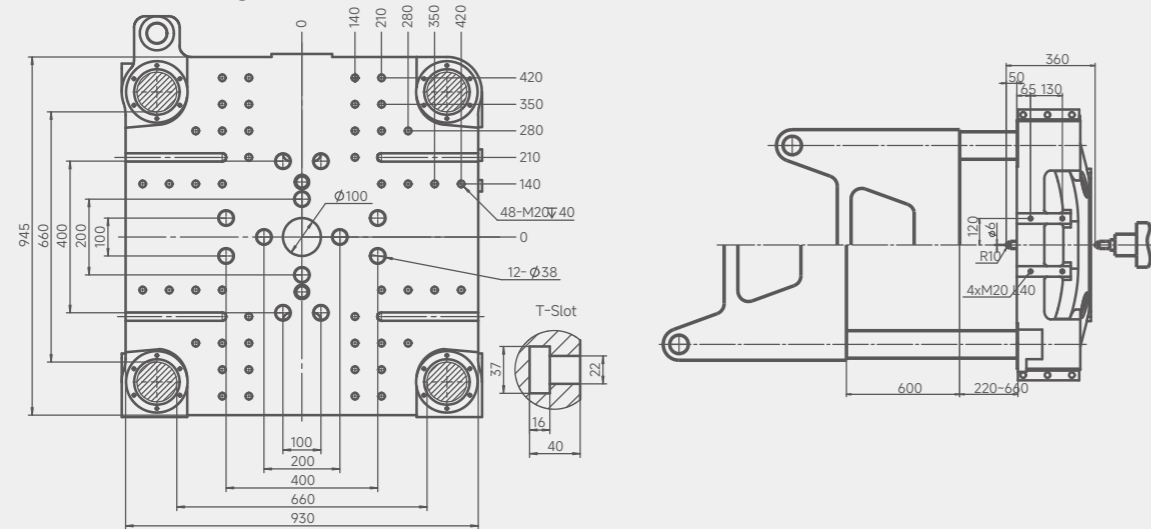
JM260-PFT/H- ϕ 52

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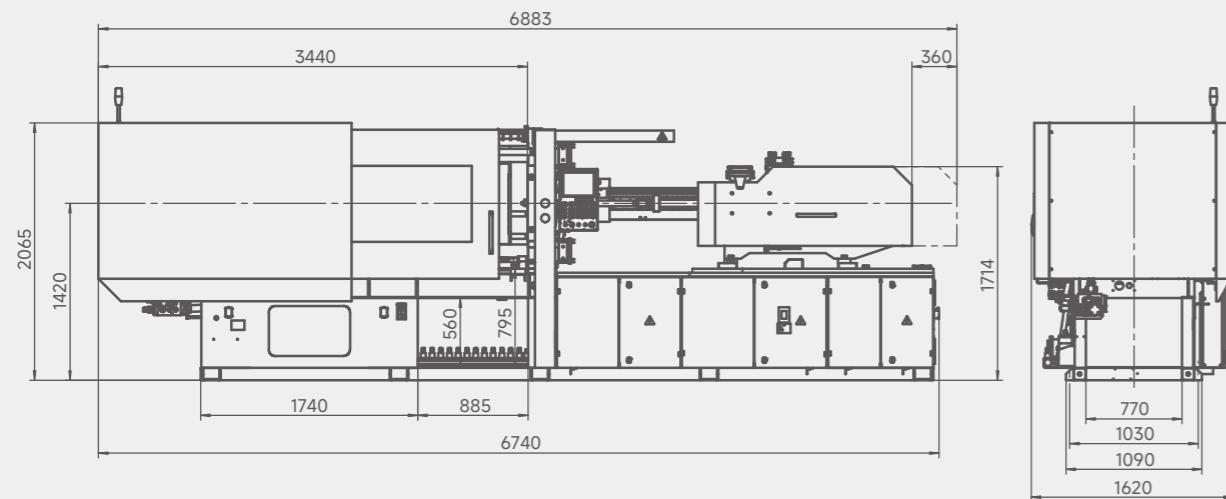
PET/H | Platen, Machine and Robot Arm Dimensions

JM320-PET/H

Standard: T-Slot + Mounting Holes



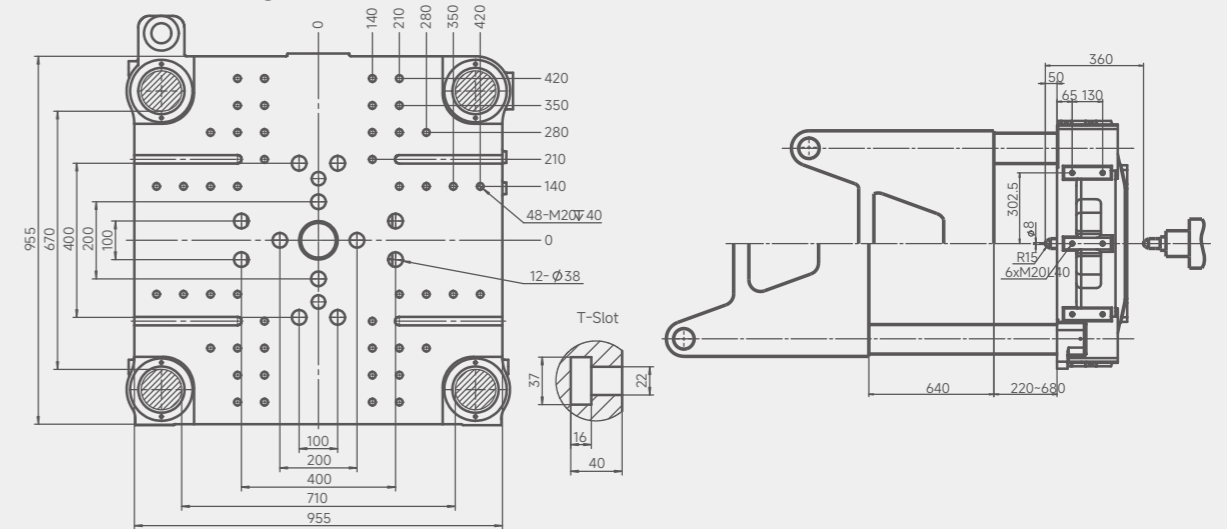
Machine Dimensions (LxWxH)



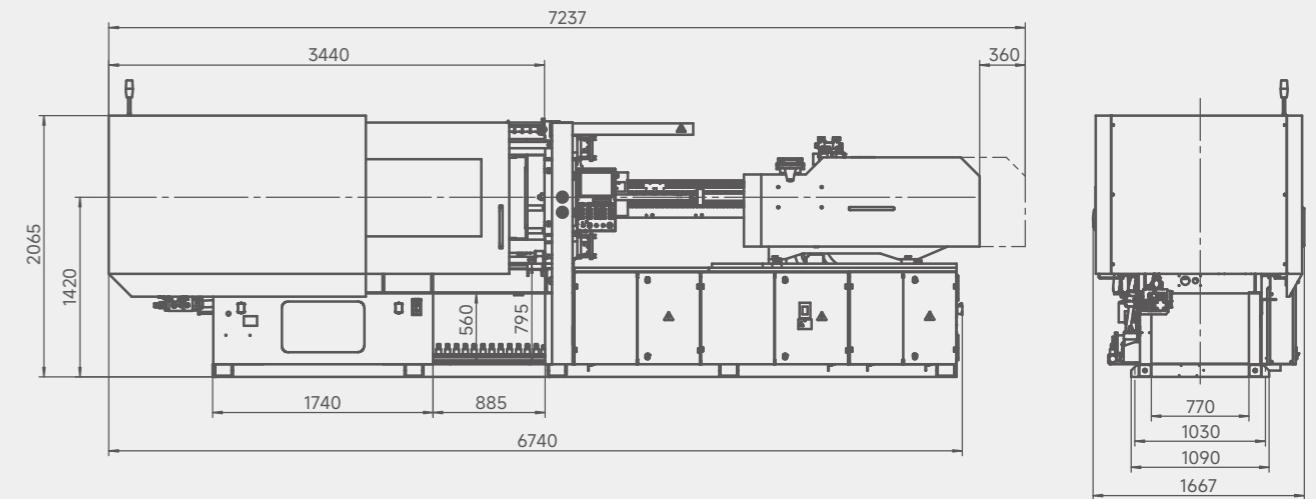
JM320-PFT/H-φ60

JM360-PET/H

Standard: T-Slot + Mounting Holes



Machine Dimensions (LxWxH)



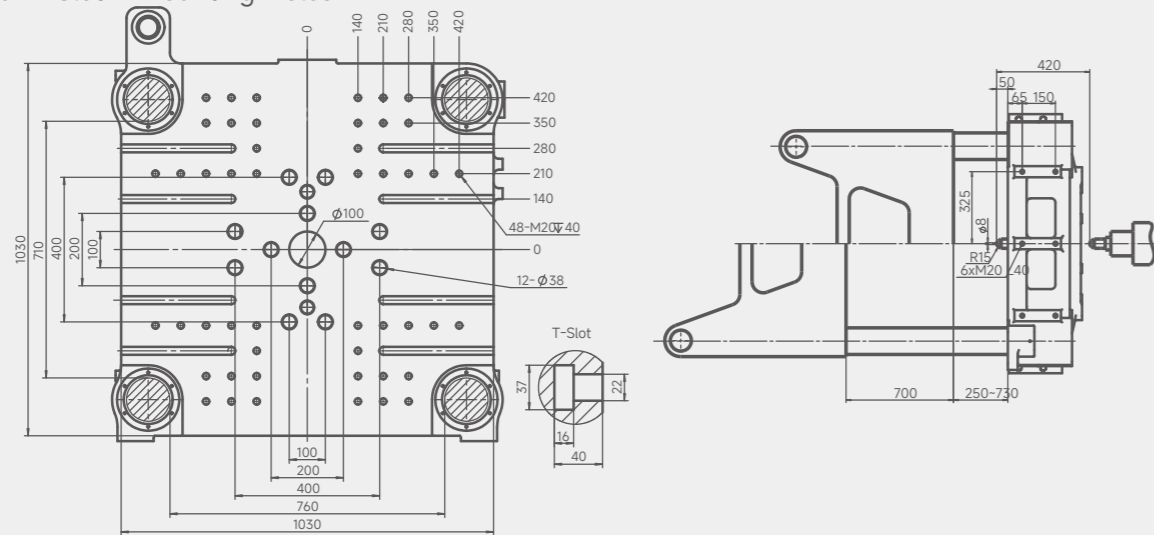
JM360-PET/H-φ67

*To enhance the using experience, the company keeps upgrading the products and reserves the right to change the product specification and parameters without prior notice. The final interpretation to the above specification and parameters belongs to the company.

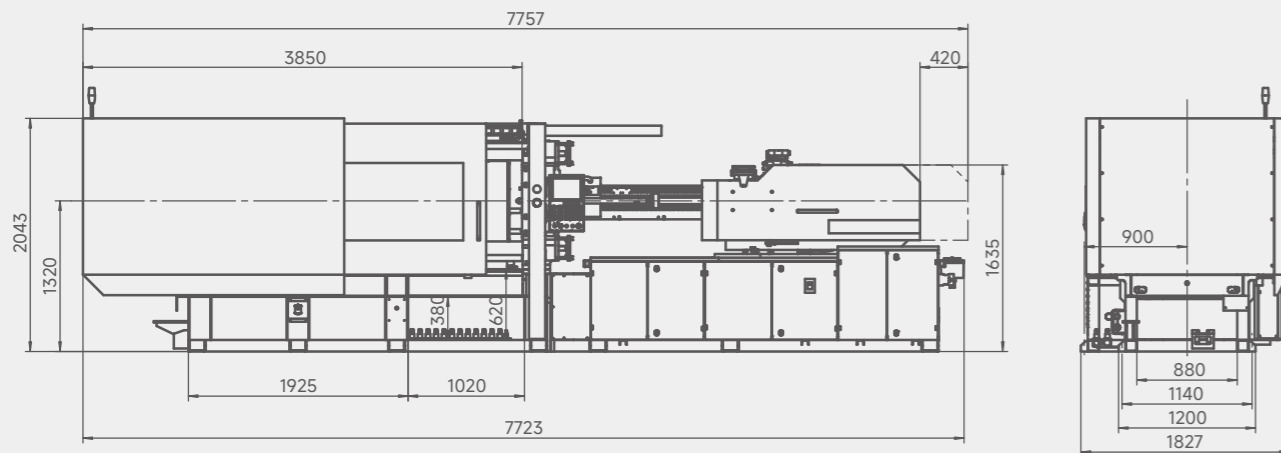
PET/H | Platen, Machine and Robot Arm Dimensions

JM400-PET/H

Standard: T-Slot + Mounting Holes



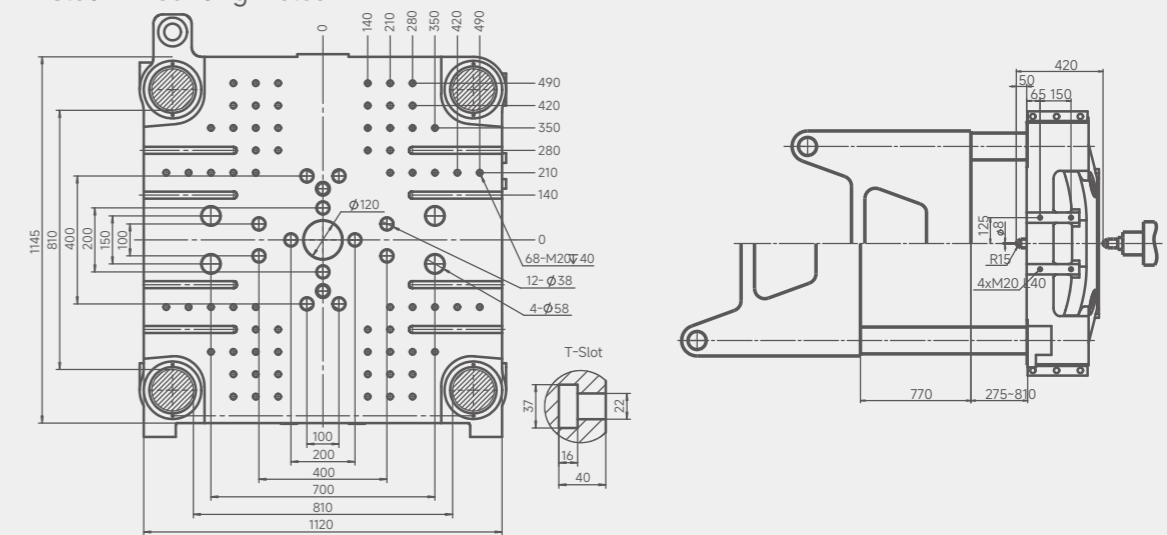
Machine Dimensions (LxWxH)



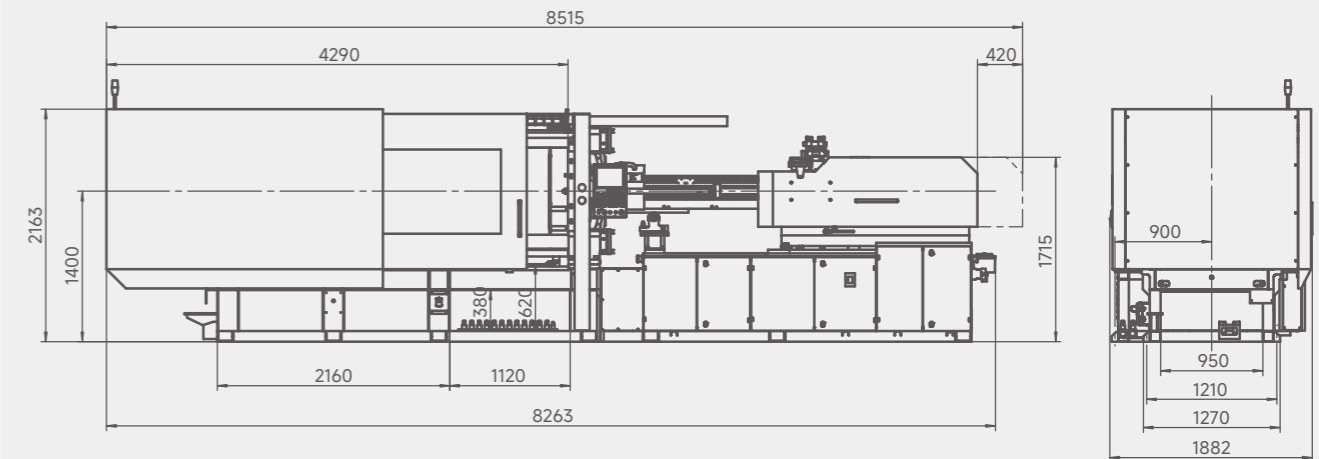
JM400-PET/H-φ67

JM480-PET/H

Standard: T-Slot + Mounting Holes



Machine Dimensions (LxWxH)



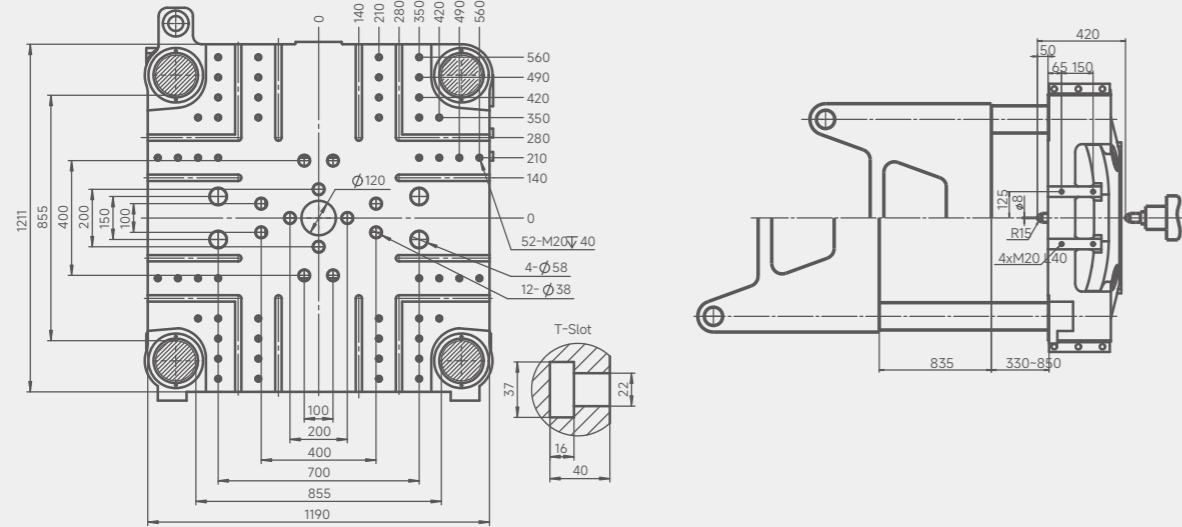
JM480-PET/H-φ75

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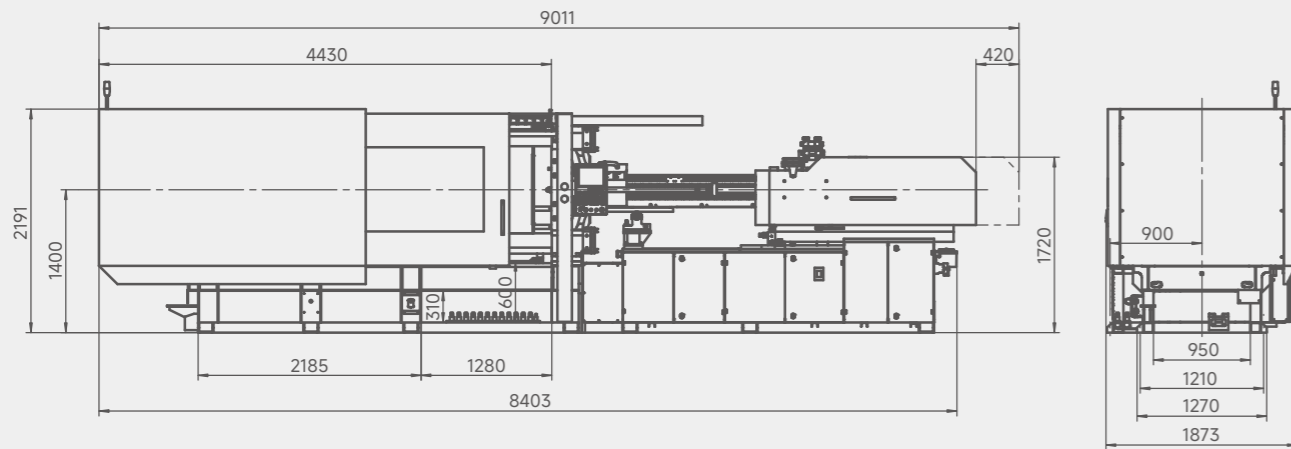
PET/H | Platen, Machine and Robot Arm Dimensions

JM560-PET/H

Standard: T-Slot + Mounting Holes



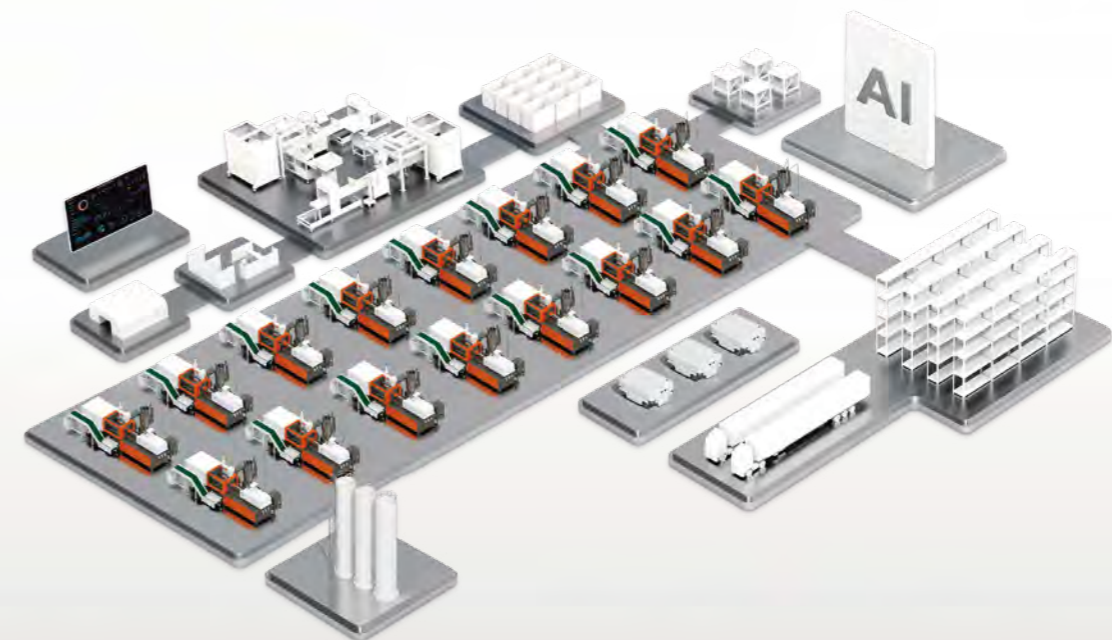
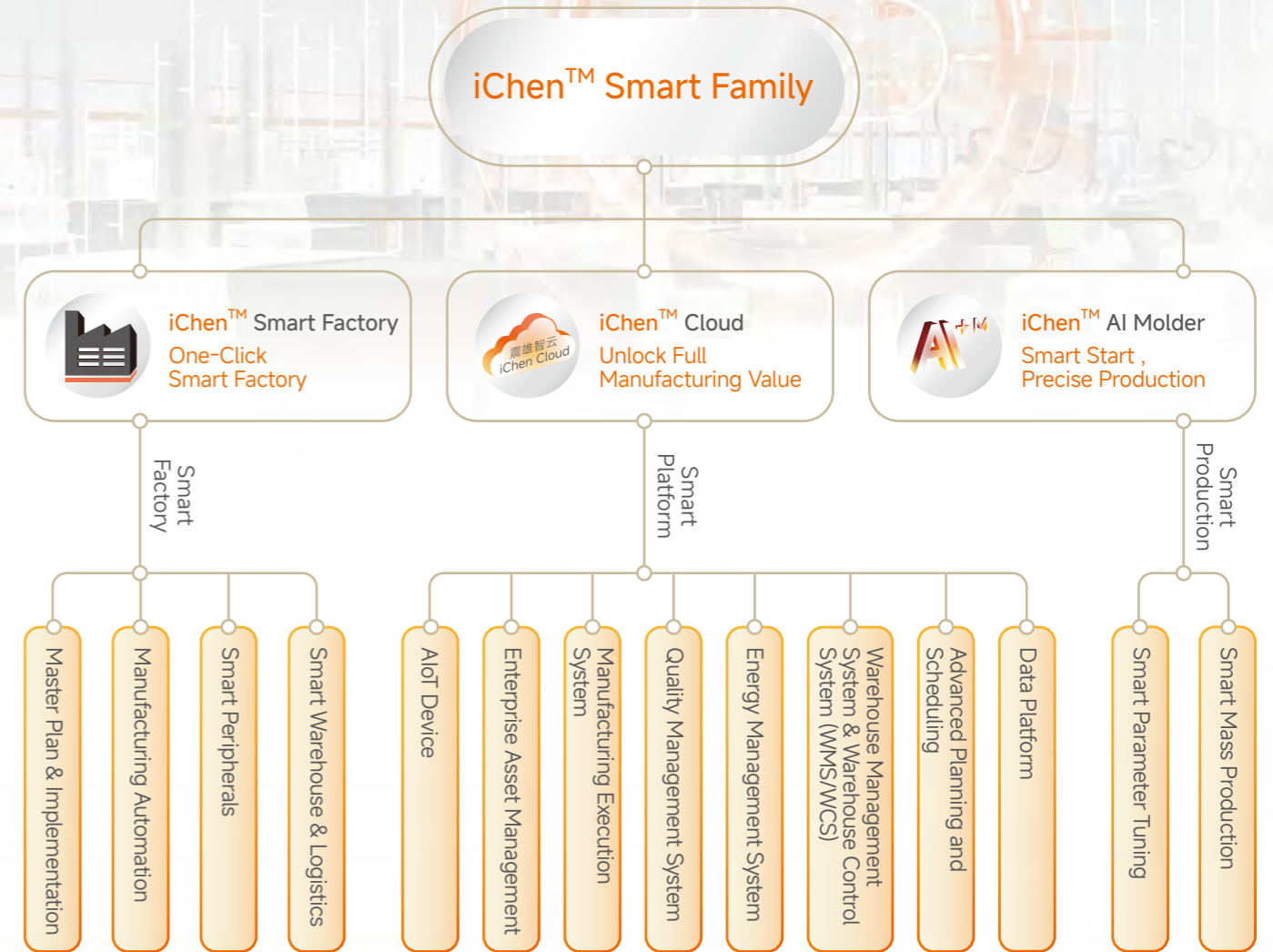
Machine Dimensions (LxWxH)

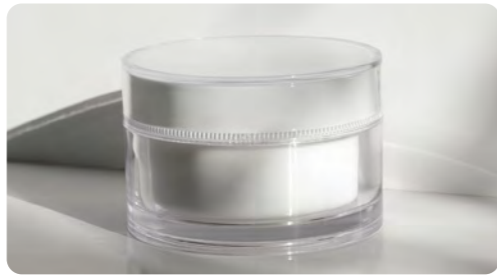


JM560-PET/H- ϕ 83

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