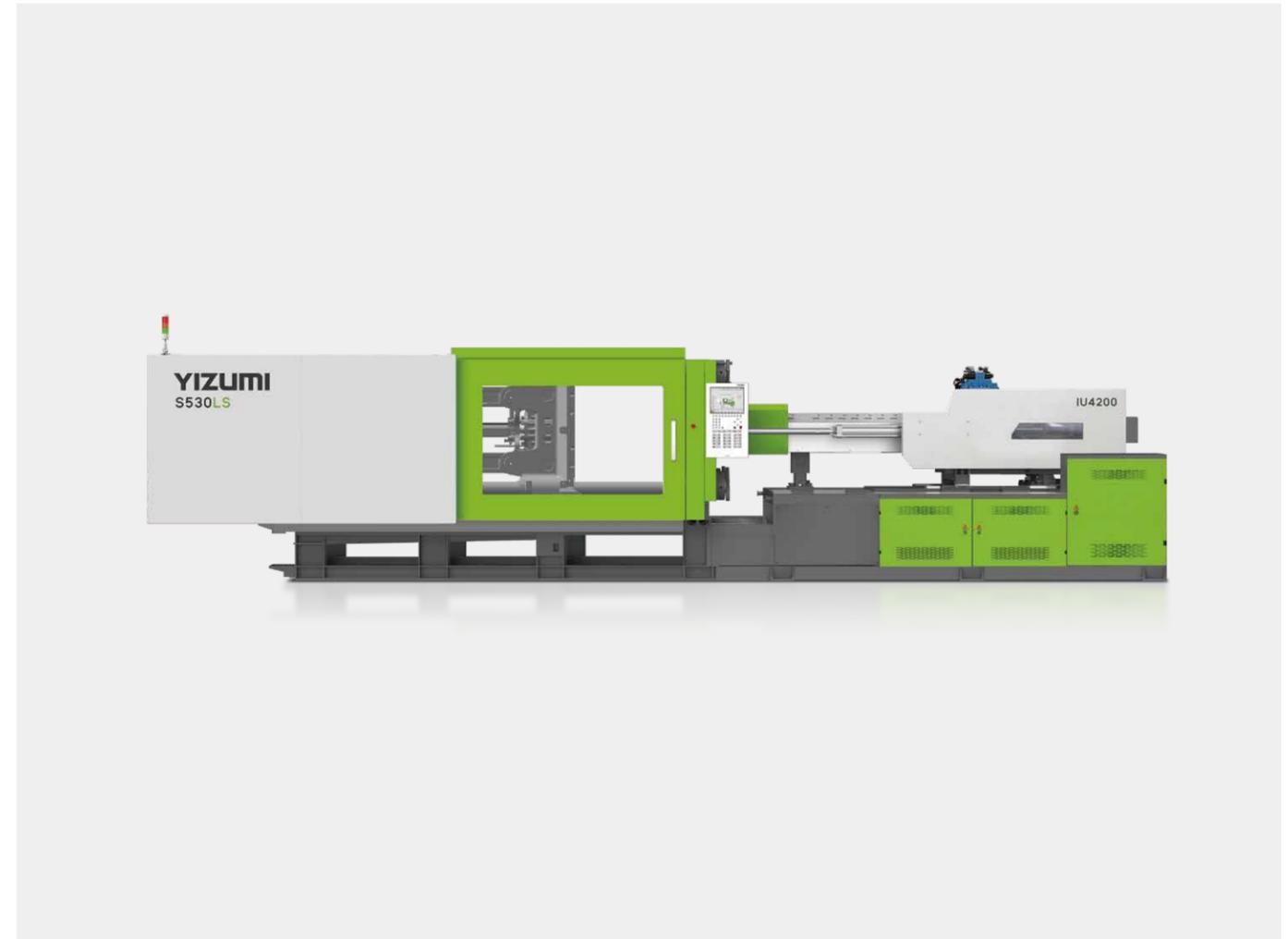


LS

530T-1100T

LS SERIES INJECTION MOLDING MACHINE  
FOR DEEP-CAVITY PRODUCT



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**[DISCLAIMER]**

[1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.

[2] The picture in the catalogue is for reference only. The real object should be considered as final.

[3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.

Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.



THINK TECH FORWARD

# LS Series Injection Molding Machine For Deep-Cavity Product

LS series injection molding machine is applied with a new-type outward toggle clamping unit, largely increasing opening stroke by comparing with conventional clamping unit. Further, LS series IMM covering 530T-1100T model is standardly equipped with servo pump system, proportional valve, relief valve, safety module and KEBA industrial controller.

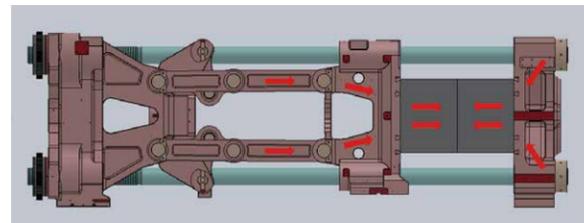
With large opening stroke, LS series injection molding machine can be widely applied for the production of trash can, plastic drum, outer barrel, and plastic stool. Also it is convenient for applying in-mold labeling and robot pick-up process to satisfy customers' requirement.

## Highlight

### Clamping force focuses on the platen center, less platen deformation

Clamping force focuses on the platen center, reducing platen deformation.

Improved utilization of clamping force can effectively reduce flash defects and the wear and tear of machine, save energy.



### Large opening stroke

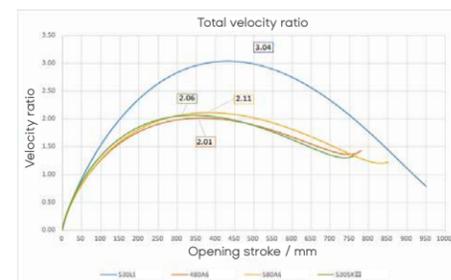
25%-35% larger than conventional clamping unit.



### Stable operation, high speed and short dry cycle time

Optimized outward toggle configuration, high velocity ratio and fast operation

Proportional valve and procedural closed-loop control ensure stable mold opening and closing.



## Machine configuration

### Fourth-generation servo system

Proven by years of practical application and higher configuration, the third-generation servo system is stable, reliable and durable with characteristic of high efficiency, energy saving, low noise, strong power and fast response.



### Upgraded KEBA system

More accurate control of system pressure, flow, position & temperature, as well as more stable overall machine performance.



### Highly-efficient mixing screw

Plasticizing efficiency increased by 10%-30%, with plasticizing quality improvement and better mixing effect.



## Application case



### Square plastic stool

Material: PP  
Weight: 970g each  
Dimension(L×W×H): 430×340×460mm  
Cycle time(Manual pick-up): About 40s  
Machine model: S530LS



### Plastic bucket

Material: PP (Low MFR)  
Weight: 730-790g each  
Capacity: 18L  
Cycle time: About 20s  
Machine model: S680LS

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# Specification

Description	UNIT	S530LS				S680LS				S850LS				S1100LS							
Injection model		IU4200				IU5300				IU6790				IU9020							
International size		4209/5300				5306/6800				6793/6800				6793/8500				9022/11000			
<b>INJECTION UNIT</b>																					
Theoretical shot volume	cm <sup>3</sup>	2211.6	2438.3	2924.9	3455.7	2438.3	2924.9	3455.7	3190.9	3769.9	4397.2	3190.9	3769.9	4397.2	5072.6	4319.6	5038.3	5812.4	6749.3		
Shot weight (PS)	g	2034.7	2243.2	2690.9	3179.2	2243.2	2690.9	3179.2	2935.6	3468.3	4054.4	2935.5	3468.2	4045.3	4666.8	3974.0	4635.3	5347.4	6209.4		
	oz	71.9	79.3	95.1	112.3	79.3	95.1	112.3	103.5	122.3	143	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219.0		
Screw diameter	mm	80	84	92	100	84	92	100	92	100	108	92	100	108	116	100	108	116	125		
Injection pressure	MPa	190.3	172.6	143.9	121.8	217.6	181.4	153.6	212.9	180.2	154.5	212.9	180.2	154.5	133.9	208.8	179.1	155.2	133.7		
Injection rate	g/s	545.7	601.6	721.7	852.6	581.2	697.2	823.7	677.6	800.6	933.8	595.7	703.8	820.9	947.0	674.2	786.3	907.1	1053.4		
Screw L:D ratio	-	23.2:1	22:1	21.7:1	20:1	21.9:1	23.5:1	21.7:1	23.5:1	23.4:1	21.5:1	21.7:1	22:1	21.5:1	20:1	21.7:1	22:1	21.5:1	20:1		
Max. injection speed	mm/s	118				114				110.8				97.4				93.3			
Screw stroke	mm	440				440				480				480				550			
Screw speed	r/min	0-160				0-180				0-160				0-145				0-116			
<b>CLAMPING UNIT</b>																					
Clamping force	kN	5300				6800				8500				11000							
Opening stroke	mm	950				1220				1300				1560							
Space between tie bars (W×H)	mm×mm	810×810				930×930				1000×1000				1160×1160							
Max. daylight	mm	1860				2220				2400				2820							
Mold thickness (min.-max.)	mm	350-910				400-1000				450-1100				500-1260							
Ejector stroke	mm	220				280				280				320							
Number of ejector pin holes	-	13				13				21				21							
Ejector force	kN	110				182				182				269							
<b>POWER UNIT</b>																					
Max. system pressure	MPa	17.5				17.5				17.5				17.5							
Oil pump motor	kW	76.4(Air-cooled)				98.4(Air-cooled)				98.4(Liquid-cooled)				88.4(Liquid-cooled)				98.4(Liquid-cooled)			
Heating power	kW	33.1/36.2				41.1/47				45.2/51				45.2/51				56.5/63.6			
Number of temp. control zones	-	6				7				7				7				8			
<b>GENERAL</b>																					
Dry cycle time	s	3.5				5				5				6							
Oil tank capacity	L	690				830				880				970							
Machine dimensions (L×W×H)	m×m×m	8.86×2.03×2.33				10.5×2.23×2.55				10.87×2.43×2.62				12.21×2.62×2.61							
Machine weight	kg	19800				30500				40500				51000							

**Note:**

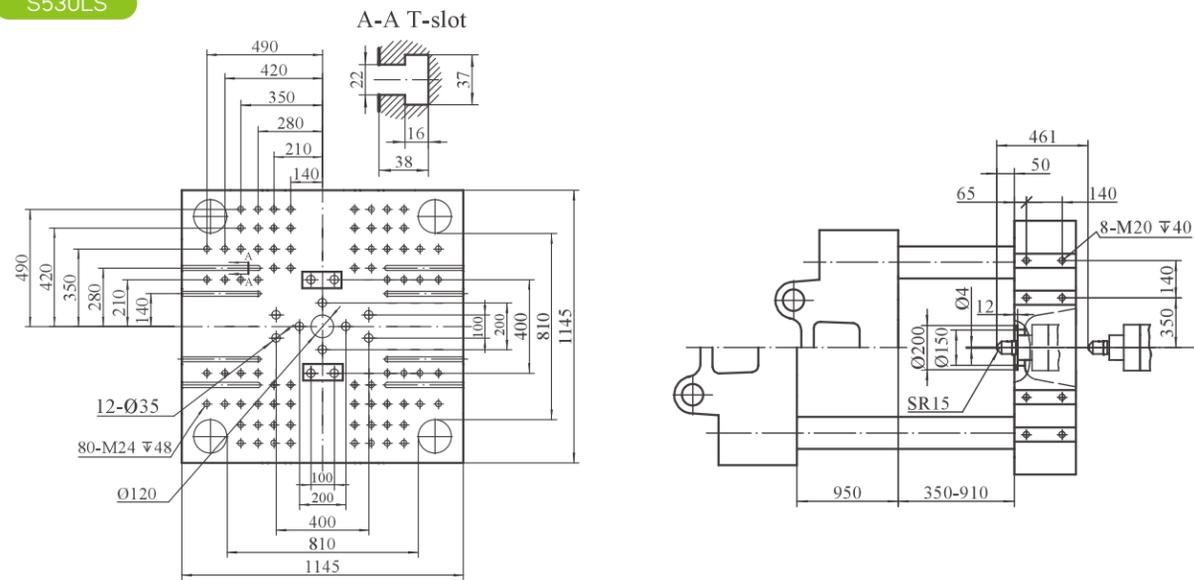
- Theoretical shot volume= barrel sectional area \* injection stroke .
- Shot weight=shot volume \* 0.92 (for PS).

**Disclaimer:**

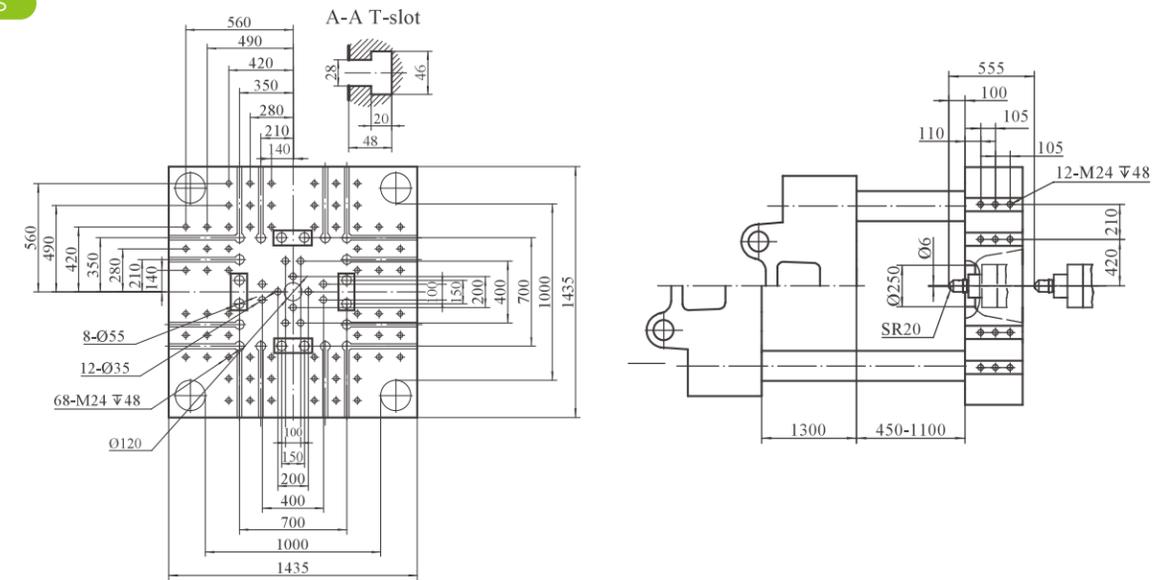
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# Platen Dimensions

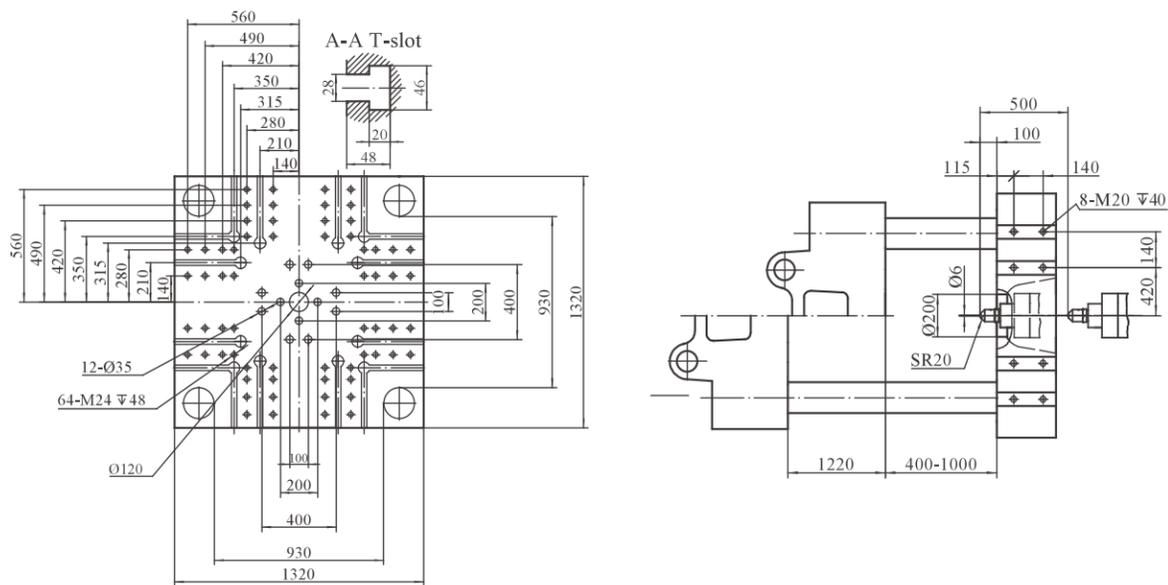
S530LS



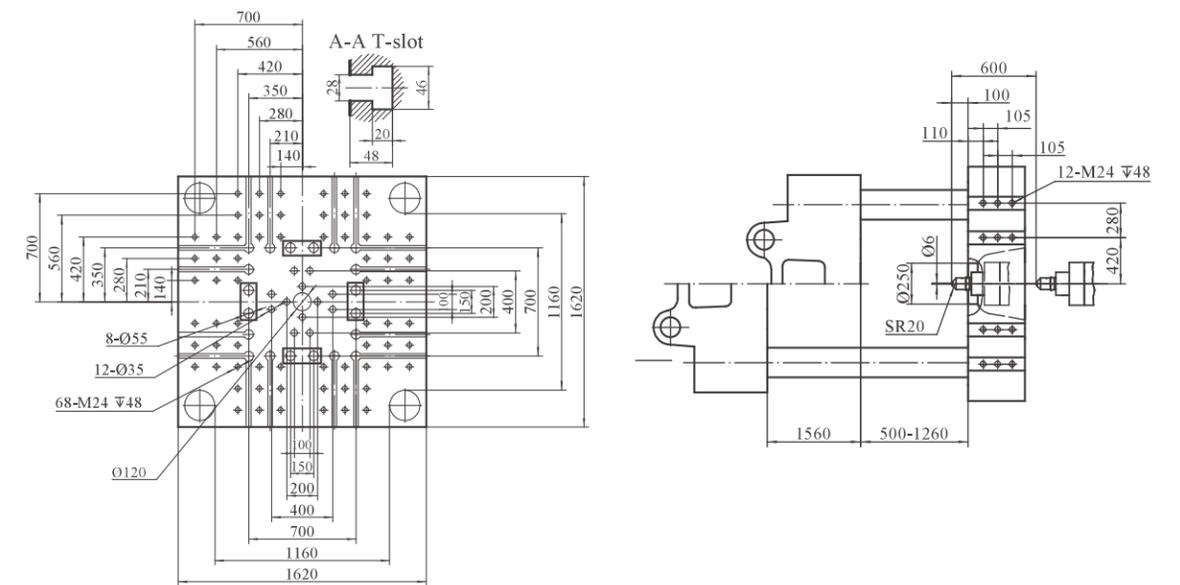
S850LS



S680LS



S1100LS

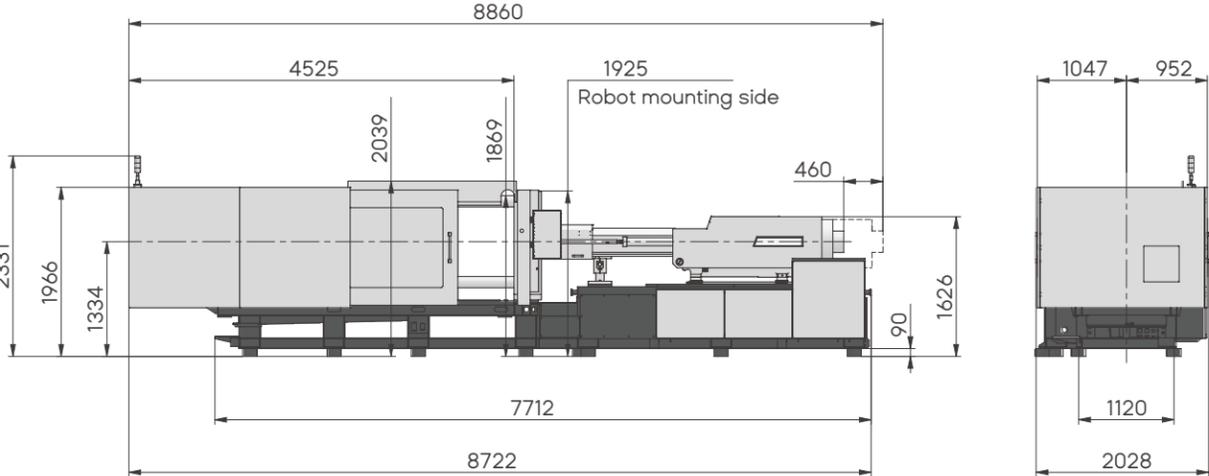


Note:  
For S850LS and S1100LS, the outmost ejector pins marked in the drawings are standard either in the horizontal or vertical direction. (Two directions can not be standard at the same time)

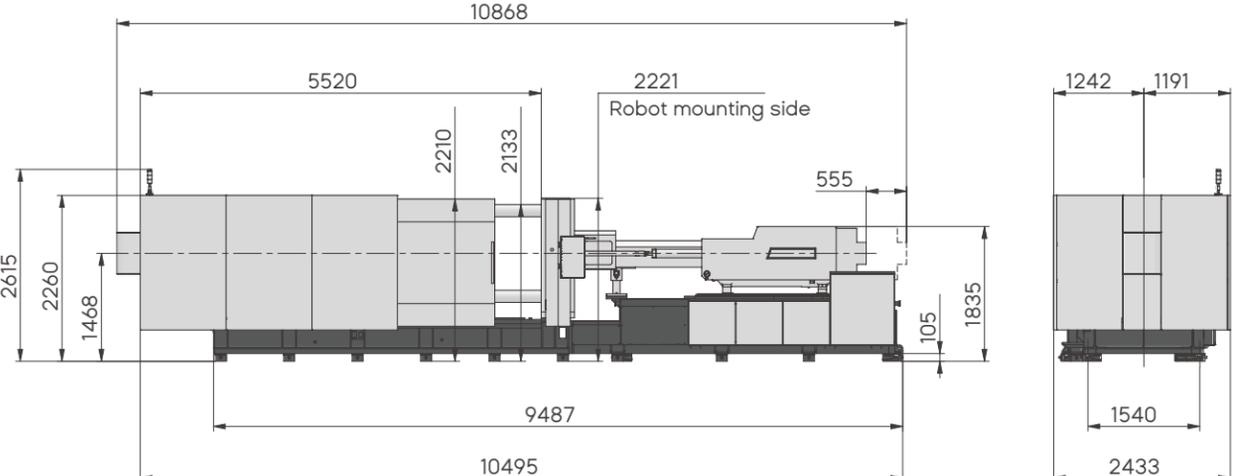
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# Machine Dimensions

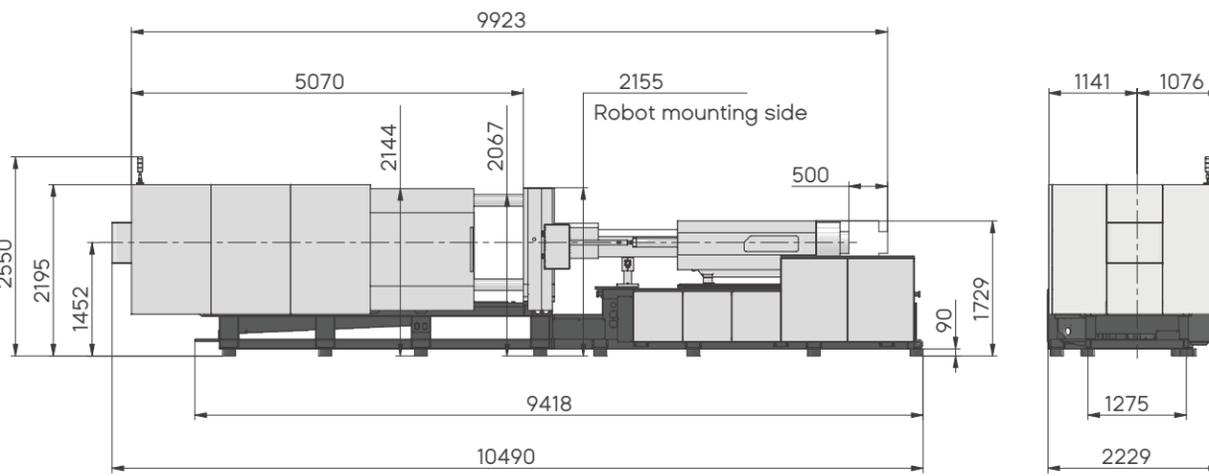
S530LS



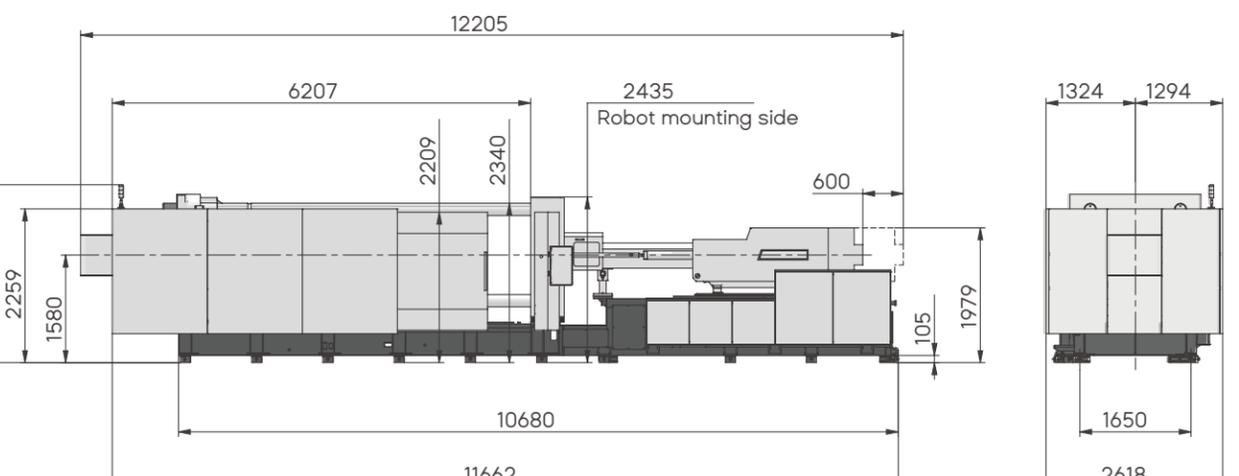
S850LS



S680LS



S1100LS



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