Specification

Description	UNIT	UN530W1			UN680W1			UN850W1			UN1100W1		
International size		3330/5300			4820/6800			6780/8500			9015/11000		
		INJECTION UNIT											
Theoretical shot volume	cm^3	1678.5	2050.5	2459.6	2216.7	2659	3141.6	3190.9	3769.9	4397.2	4319.7	5038.5	5812.6
Shot weight (PS)	g	1544.2	1886.4	2262.8	2039.4	2446.3	2890.3	2935.6	3468.3	4045.4	3974.1	4635.4	5347.6
	oz	54.5	66.5	79.8	71.9	86.3	101.9	103.5	122.3	142.7	140.2	163.5	188.6
Screw diameter	mm	76	84	92	84	92	100	92	100	108	100	108	116
Injection pressure	MPa	198.6	162.5	135.5	217.6	181.4	153.5	212.8	180.2	154.5	208.8	179.1	155.2
Injection rate	g/s	379.8	464.0	556.5	443	531	629	563	666	777	642	749	864
Screw L:D ratio		22.1:1	22:1	20:1	21.9:1	22:1	21.6:1	21.7:1	22:1	21.5:1	21.6:1	22:1	21.6:1
Max. injection speed	mm/s	91			87			92			89		
Screw stroke	mm	370			400			480			550		
Screw speed	r/min	0-140			0-143			0-143			0-116		
		CLAMPING UNIT											
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		
		POWER UNIT											
Max. system pressure	MPa	17.5			17.5			17.5			17.5		
Oil pump motor	kW	60.5			47.2+28.8			56.1+47.2			56.1+56.1		
Heating power	kW	33.1/36.2			38/47			42/51			46.5/63.6		
Number of temp. control zones		6			6			6			7		
		GENERAL UNIT											
Dry cycle time	s	3.7			6			6.5			7.5		
Oil tank capacity	L	760			1000			1150			1300		
Machine dimensions (L×W×H)	m	8.7×2.12×2.46			10.27×2.24×2.63			11.21×2.43×2.73			12.34×2.62×2.66		
Machine weight	kg	19800			30500			41000			51500		

Note:

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

Disclaimer:

1. YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.
2. The pic YIZUMI reserves the right to modify the product description in the catalogue.
3. The data in the catalogue is obtained from internal testing in YIZUMI laboratory.
   YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

THINK TECH FORWARD

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【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.

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Designed by YIZUMI, September 2023

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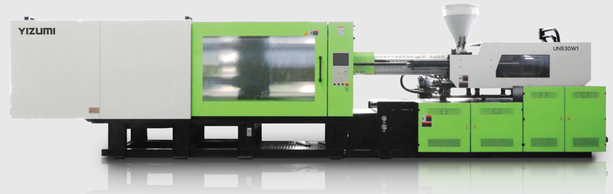
W1

530T-1100T

W1 SERIES INJECTION MOLDING MACHINE
FOR DEEP-CAVITY PRODUCT



W1 Series Injection Molding Machine For Deep-Cavity Product

W1 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, W1 series IMM covering 530T-1100T model is standardly equipped with servo pump system, proportional valve, relief valve, safety module and KEBA industrial controller.

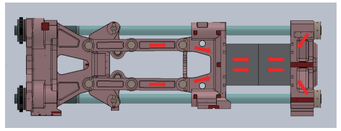
With large opening stroke, W1 series injection molding machine can be widely applied for the production of trash can, plastic drum, outer barrel, and plastic stool. Also it is convenient for applying in-mold labeling and robot pick-up process to satisfy customers' requirement.

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.



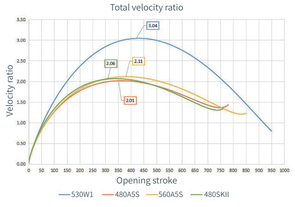
Large opening stroke

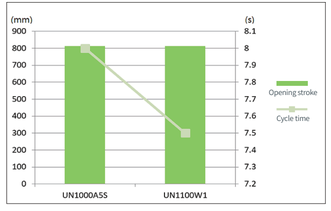
25%-35% larger than conventional clamping unit.

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

Third-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.

Brand-name thrust bearing

Brand-name thrust bearing of transmission shaft (680~1100W1) can largely ensures the service life of key parts under heavy load condition.

Highly-efficient mixing screw

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

Application case

Square plastic stool

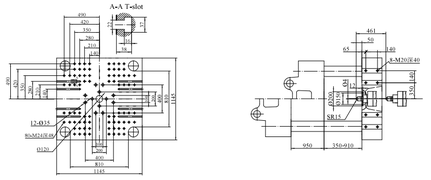
Material: PP
Weight: 970g each
Dimension(L×W×H): 430×340×460mm
Cycle time(Manual pick-up): About 40s
Machine model: UN530W1

Plastic bucket

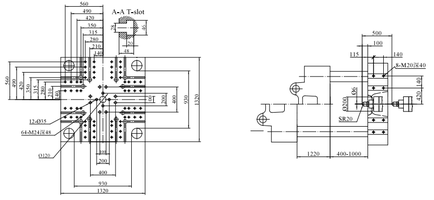
Material: PP (Low MFR)
Weight: 730-790g each
Capacity: 18L
Cycle time: About 20s
Machine model: UN680W1

Platen Dimensions

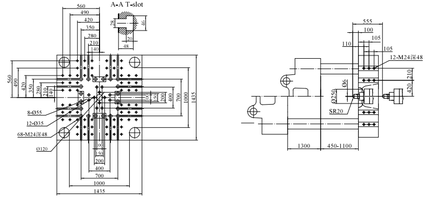
UN530W1



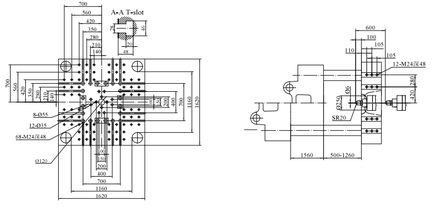
UN680W1



UN850W1



UN1100W1



Note:

For UN850W1 and UN1100W1, 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)