

Specification

DESCRIPTION	UNIT	UN530W1				UN680W1			UN850W1			UN1100W1		
International size		3330/5300				4820/6800			6780/8500			9015/11000		
INJECTION UNIT														
Theoretical shot volume	cm³	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 (PC)	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	810×810				930×930			1000×1000			1160×1160		
Max. daylight	mm	1860				2120			2300			2720		
Mold thickness (min.-max.)	mm	350-910				400-900			450-1000			500-1160		
Ejector stroke	mm	220				280			280			320		
Number of ejector pin hole		13				21			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				48.1+34.7			59.6+48.1			59.6×2		
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	8.7×2.14×2.42				10.25×2.25×2.64			11.75x2.25x2.68			12.18×2.63×2.61		
Machine weight	kg	19800				30500			41000			51500		

Note: 1. Theoretical shot volume= barrel sectional area \* injection stroke .  
2. Shot weight=shot volume \* 1.0 (for PC).

WE WALK ALONGSIDE THE WORLD  
Stock Code: 300415

Designed by Yizumi, June 2021

YIZUMI伊之密

W1

W1 Series Injection Molding Machine  
For Deep-Cavity Product

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Disclaimer:  
1.We reserve the right to change specifications without prior notice.  
2.The pictures are only for reference, please refer to the real object.  
3.Data above come from Yizumi lab, available for reference.



# 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. Futher, 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.

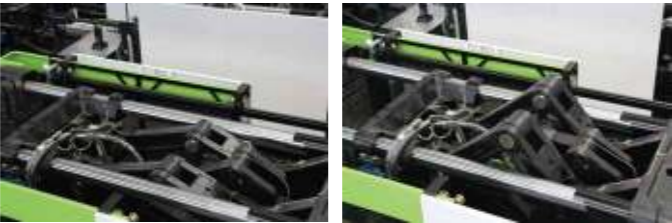
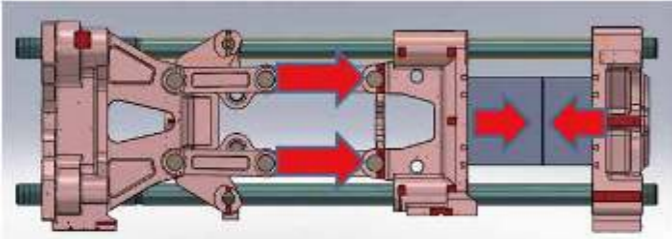
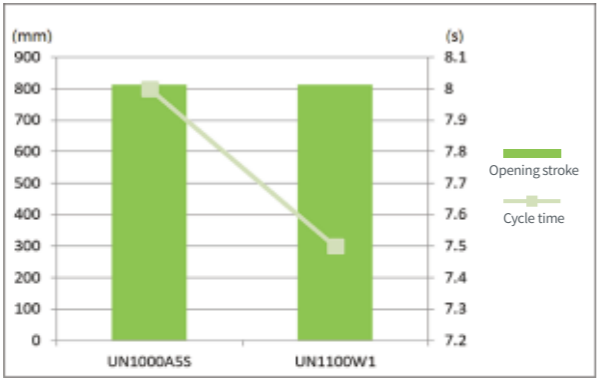
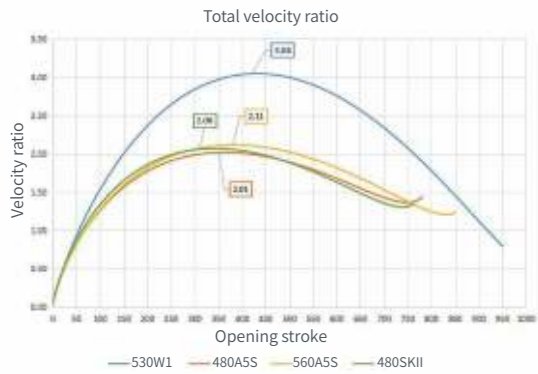
Large opening stroke

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

