UBEMAX-UF Series Main Spec Sheet

ITEM			UNIT	UF650W			UF850W				UF1000W				UF1300					
Clamping	Mold Clamping System		_	Double Toggle		Double Toggle			Double Toggle				Double Toggle							
	Mold Clamping Force		kN	6,370		70		8,330			9,800				12,740					
	Distance Between Tie Bars(H×V)		mm	1,100×1,100			1,320×1,320				1,400×1,400				1,450×1,450					
	Platen Size(H×V)		mm	1,540×1,540			1,840×1,840				1,900×1,900				1,900×1,900					
	Mold Opening Stroke		mm	1,000			1,200				1,400				1,400					
	Mold Height(Min/Max)		mm	400/1,040			500/1,240				500/1,240				500/1,240					
	Daylight Ejector Force		mm	2,040			2,440				2,640				2,640					
			kN	196				245				245				245				
	Ejector Stroke		mm	200			200				200				250					
	Injection Type		-	i55		i74		i55		i74		i74		i100		i74		i100		
	Screw Type (●:Std)		_	A (•)	В	Α	В	Α	В	A (•)	В	A (•)	В	Α	В	Α	В	A (•)	В	
	Screw Dia.		mm	90	100	100	112	90	100	100	112	100	112	112	120	100	112	112	120	
	Calculated Injection Volume		cmi	2,862	3,534	3,927	4,926	2,862	3,534	3,927	4,926	3,927	4,926	5,517	6,333	3,927	4,926	5,517	6,333	
tion	Injection Weight(PS)		g	2,633	3,251	3,613	4,532	2,633	3,251	3,613	4,532	3,613	4,532	5,076	5,826	3,613	4,532	5,076	5,826	
Injecti	Max. Injection Pressure		MPa	185	150	180	150	185	150	180	150	180	150	175	150	180	150	175	150	
	Max. Holding Pressuree		MPa	167	135	162	135	167	135	162	135	162	135	158	135	162	135	158	135	
	Injection Rate		cm³/s	954	982	1,100	1,182	954	982	1,100	1,182	1,100	1,182	1,477	1,527	1,100	1,182	1,477	1,527	
	Screw Speed		min ⁻¹	165 147		165 147		147			30	147		130						
	Plasticizing Capacity(PS)		kg/h	445	462	540	560	445	462	540	560	540	560	625	655	540	560	625	655	
	Heater Capacity		kW	39.0 51.0		39.0 51.0			51.0 52.0 54.0			51.0		52.0	54.0					
	Cooling Water Volume		L/min	20×32°C			20×32°C				20×32°C				20×32°C					
Others	Nozzle Center Height (without grout)		mm	1,485		1,575			1,575				1,666							
		L	m	10.64		11.	11.08		11.21		11.34		12.08		12.74		12.38		12.94	
	Machine Size W		m	2.68			2.97				2.99				3.30					
0			m	2.63			2.81					2.8	31		3.10					
	Machine Weight		ton	4	4 47		55 58		8	60 64			73 77							

ITEM			UNIT	UF1400HW							UF1	800	UF3000HW							
Clamping	Clamping System		_	Double Toggle						Double	Toggle	Double Toggle								
	Clamping Force		kN	13,720					17,640						29,400					
	Tie-Bar Space(H×V)		mm	1,830×1,510							1,850	< 1,660	2,170×1,780							
	Platen size(H×V)		mm	2,480×1,970						2,856×2,413							3,175×2,630			
	Clamping Stroke		mm	1,500						1,700							1,800			
	Die Height(Min/Max)		mm	650/1,300						800/1,500							900/2,060			
	Daylight		mm	2,800						3,200							3,860			
	Ejector Force		kN	294						294							392			
	Ejector Stroke		mm	250			0			300							35	50		
Injection	Injection Type		_	i74 i100		00	i128		i128		i161		i200		i161		i200			
	Screw Type (●:Std)		_	Α	В	Α	В	A (●)	В	Α	В	A (•)	В	Α	В	Α	В	A (•)	В	
	Screw Dia.		mm	100	112	112	120	120	132	120	132	132	140	140	150	132	140	140	150	
	Theoretical Injection Volume		cni	3,927	4,926	5,517	6,333	6,786	8,211	6,786	8,211	9,032	10,160	10,775	12,370	9,032	10,160	10,775		
	Injection Weight (PS)		g	3,613	4,532	5,076	5,826	6,243	7,554	6,243	7,554	8,309	9,347	9,913	11,380	8,309	9,347	9,913	11,380	
	Max. Injection Pressure		MPa	180	150	175	150	180	150	180	150	175	155	182	155	175	155	182	155	
	Max. Hold Pressuree		MPa	162	135	158	135	162	135	162	135	158	140	164	140	158	140	164	140	
	Injection Rate		cm²/s	1,100	1,182	1,477	1,527	1,493	1,505	1,493	1,505	1,807	2,032	2,031	2,332	1,807	2,032	2,031	2,332	
	Screw RPM		min ⁻¹	14	17	13	30	13	30	13	30	12	20	1.	10	12	120 110		10	
	Plasticating Capacity(PS)		kg/h	540	560	625	655	650	630	650	630	700	680	750	730	700	680	750	730	
	Heater Capacity		kW	51	.0	52.0	54.0	56.0	60.0	56.0	60.0	71.0	75.0	80.0	85.0	71.0	75.0	80.0	85.0	
Others	Cooling Water Volume		L/min	20×32°C						20×32°C 30×32°C					30×32℃					
	Nozzle Center Height (without grout)		mm	1,750				1,9	50	2,100				2,100						
		L	m	12	.56	13	.12	13.	.56	15	.28	16	.07	16	.24	17.	24	17	.42	
	Machine Size W		m	4.10					4.10							4.0	60			
	Н		m	3.10							3.		4.00							
Machine Weight			ton	85 89				9	0	180 200					260					

- Re) 1.SI unit is used for the above spec sheet.
 2.Theoretical injection Volume is (Screw Dia. Cross section area) × (Screw stroke)
 3.Injection Volume is calculated for PS, which would be almost 92% of the theoretical injection

 - 4. Plasticating volume is assumed with PS material.

 5. Max. Injection Pressure and hold pressure might be limited due to the Injection conditions.

 6. These above values are subject to changed without prior notice.



Ultra Large All Electric Injection Molding Machines (1,300t ~ 3,500t)





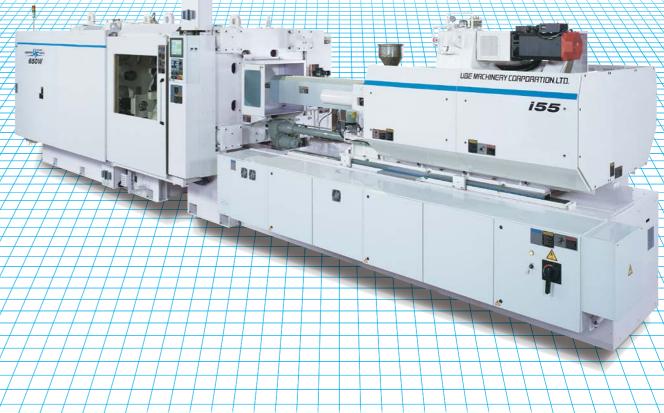




http://www.ubemachinery.co.jp







UBE MACHINERY CORPORATION, LTD.



Useful & Flexible

The UF Series is a multi-purpose electric machine designed to fit the needs of injection molders worldwide.



UF1600

User Friendly

Easy to Operate and Maintain



UF650W

New e-HUMMA Controller

e-HUMMA offers simple operation for complete utilization

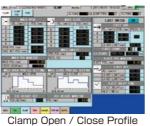


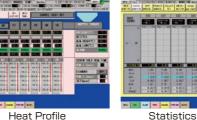
*Mold-Link is Exclusive to UBE Information Systems, Inc. in Japan

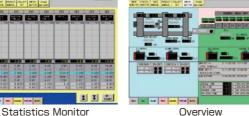




Main Menu Injection Profile









Profile Monitor

Maintenance

Memory Storage

[Compact Design Operation Panel]

- *High Resolution large TFT Color Touch Screen with High End Graphics.
- *Accessible Switches provide easy, safe, user friendly operation.

[Main Menu Short Cuts]

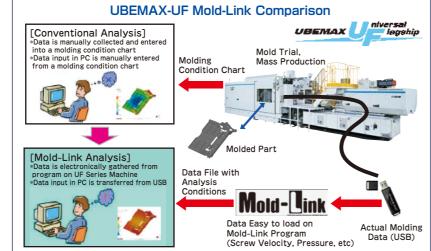
*Quick Access to All Screens from the Main Menu Icons

[Control System]

*The newly designed control system is capable to add future options at any time with ease.

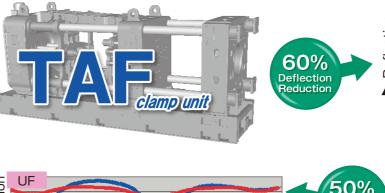
[CAE Analysis Software (optional item)]

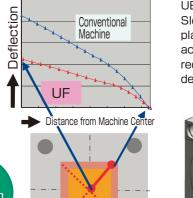
*Mold-Link(CAE Analysis Software), exclusively designed by UBE Information System Co., is an interactive software that analyzes actual molding conditions



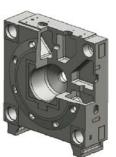
Rigid Clamp Design "TAF clamp"

TAF clamp: Increase Rigidity





UBE's proven "Box Sleeve" designed platens have achieved a 60% reduction on platen deflection.



Machine Base Stability Comparison

Moving Platen

New Advanced Ball Screw Design



Link Housing

Improved ball screw seals reduce grease volume by 90% from conventional design.

The improved design also increases durability to enhance ball screw life. Grease distribution control reduces both grease consumption and improves ball screw wear. The new design offers you many

Stationary Platen

competitive advantages, the improved cleanliness of the plant environment

Cross Head Guide Rod **Ball Screw for Toggle**

along with the reduction of grease usage are only a

Conventional "PID" Control

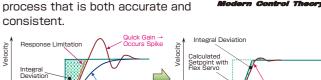
UBE's newly developed "Flex Servo"

control logic, therefore achieving a

control is based on advanced

more reliable injection molding

consistent.



Flex

Servo

Control Comparison

Platen Deflection Comparison

Accurate and Consistent Injection Process Control "Flex Servo"

Distinguished Energy Saving

Recycling energy heat loss which occurs at servo motor's deceleration provides you substantial energy saving.

Electric Power Safety Gate (Optional Item)

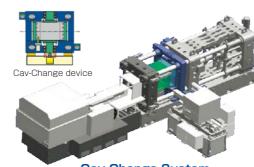
UBE UF Series all electric machines offer electric belt driven safety operator gates as an option.

When equipped with this option, the cycle time is improved, as well as, safe operating conditions.

Value Added Process Technologies (Optional Item)



UBE's unique Value Added Technologies such as Cav-Change & DIEPREST can be easilly added to UF series at any time.



Cav-Change System

Cav-Change with DIPREST Foam