

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				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	mm	2,040				2,440				2,640				2,640					
	Ejector Force	kN	196				245				245				245					
	Ejector Stroke	mm	200				200				200				250					
Injection	Injection Type	—	i55		i74		i55		i74		i74		i100		i74		i100			
	Screw Type (●:Std)	—	A (●)	B	A	B	A	B	A (●)	B	A (●)	B	A	B	A	B	A (●)	B		
	Screw Dia.	mm	90	100	100	112	90	100	100	112	100	112	112	120	100	112	112	120		
	Calculated Injection Volume	cm ³	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		
	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		
	Max. Injection Pressure	MPa	185	150	180	150	185	150	180	150	180	150	175	150	180	150	175	150		
	Max. Holding Pressure	MPa	167	135	162	135	167	135	162	135	162	135	158	135	162	135	158	135		
	Injection Rate	cm ³ /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		130		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		51.0		52.0		54.0	
Others	Cooling Water Volume	L/min	20×32℃				20×32℃				20×32℃				20×32℃					
	Nozzle Center Height (without grout)	mm	1,485				1,575				1,575				1,666					
	Machine Size	L	m		10.64		11.08		11.21		11.34		12.08		12.74		12.38		12.94	
		W	m		2.68		2.97		2.97		2.99		2.99		3.30		3.30			
		H	m		2.63		2.81		2.81		2.81		2.81		3.10		3.10			
	Machine Weight	ton	44		47		55		58		60		64		73		77			

ITEM		UNIT	UF1400HW						UF1800						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						300						350					
Injection	Injection Type	—	i74		i100		i128		i128		i161		i200		i161		i200			
	Screw Type (●:Std)	—	A	B	A	B	A (●)	B	A	B	A (●)	B	A	B	A	B	A (●)	B		
	Screw Dia.	mm	100	112	112	120	120	132	120	132	132	140	140	150	132	140	140	150		
	Theoretical Injection Volume	cm ³	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	12,370		
	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 Pressure	MPa	162	135	158	135	162	135	162	135	158	140	164	140	158	140	164	140		
	Injection Rate	cm ³ /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	147		130		130		130		120		110		120		110			
	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		71.0		75.0		80.0		85.0	
Others	Cooling Water Volume	L/min	20×32℃						20×32℃						30×32℃					
	Nozzle Center Height (without grout)	mm	1,750						1,950						2,100					
	Machine Size	L	m		12.56		13.12		13.56		15.28		16.07		16.24		17.24		17.42	
		W	m		4.10		4.10		4.10		4.10		4.10		4.10		4.60		4.60	
		H	m		3.10		3.10		3.10		3.80		3.80		3.80		4.00		4.00	
	Machine Weight	ton	85		89		90		180		200		200		260		260		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 volume.
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)



MD1300HW



UF1600



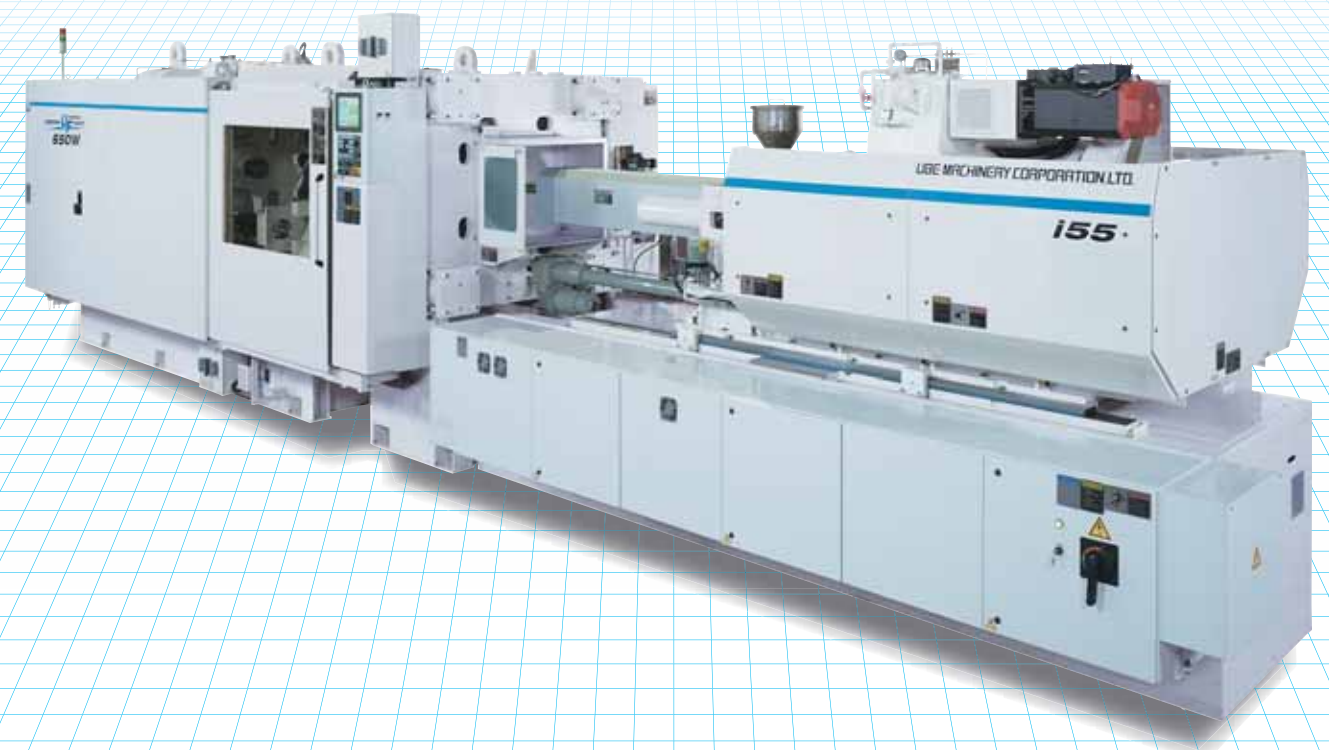
MD3000HW

UBE / UBE MACHINERY CORPORATION,LTD.

Main web site
<http://www.ubemachinery.co.jp>

All Electric Injection Molding Machine

UBEMAX **UF** ^{universal} ^{flagship}
Series



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 System Co.



Main Menu



Injection Profile



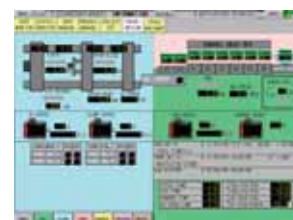
Clamp Open / Close Profile



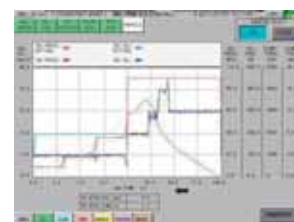
Heat Profile



Statistics Monitor



Overview



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

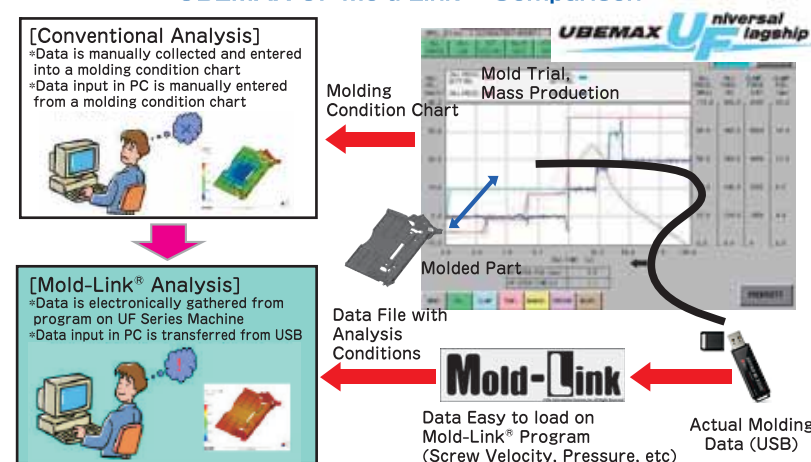
[Control System]

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

[CAE Analysis Software (optional item)]

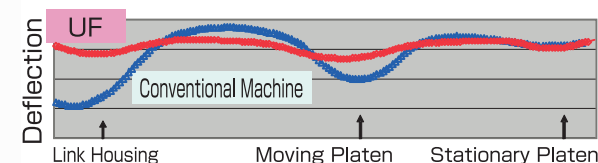
- *Mold-Link® (CAE Analysis Software), exclusively designed by UBE Information System Co., is an interactive software that analyzes actual molding conditions.

UBEMAX-UF Mold-Link® Comparison

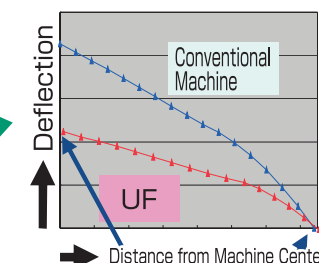


Rigid Clamp Design "TAF clamp®"

TAF clamp : Increase Rigidity

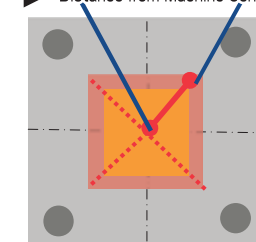


Machine Base Stability Comparison

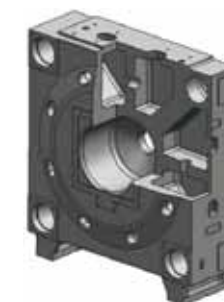


60% Deflection Reduction

50% Deflection Reduction



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



Platen Deflection Comparison

New Advanced Ball Screw Design



Ball Screw for Toggle

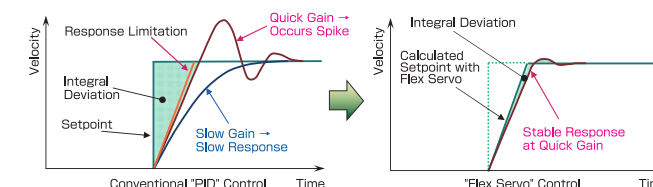
Improved ball screw seals reduce grease volume by 90% from conventional design. The improved design also increases durability to enhance ball screw life. Grease distribution control reduces both grease consumption and improves ball screw wear. The new design offers you many competitive advantages, the improved cleanliness of the plant environment along with the reduction of grease usage are only a few.

Distinguished Energy Saving

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

Accurate and Consistent Injection Process Control "Flex Servo"

UBE's newly developed "Flex Servo" control is based on advanced control logic, therefore achieving a more reliable injection molding process that is both accurate and consistent.

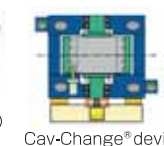


Control Comparison

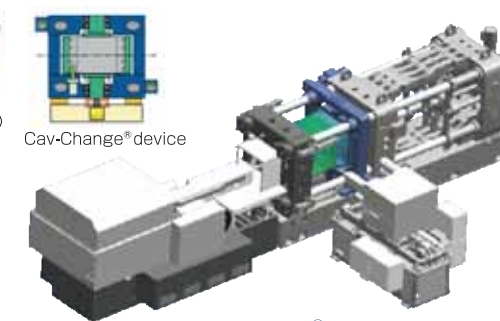
Electric Power Safety Gate (Optional Item)

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.

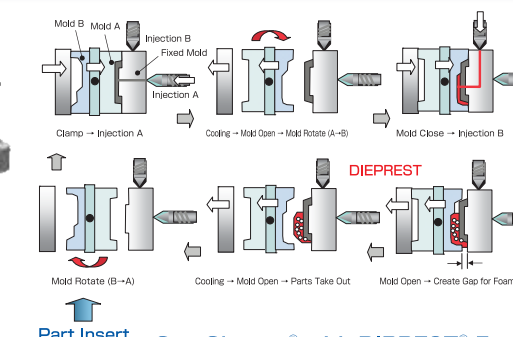
Value Added Process Technologies (Optional Item)



Cav-Change® device



Cav-Change® System



Part Insert

Cav-Change® with DIEPREST® Foam

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