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		cm³	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 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		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	54.0	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				2.99				3.30			
		H	m	2.63				2.81				2.81				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		cm³	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 Pressuree		MPa	162	135	158	135	162	135	162	135	158	140	164	140	158	140	164	140
	Injection Rate		cm³/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	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℃						20×32℃		30×32℃				30×32℃			
	Nozzle Center Height (without grout)		mm	1,750						1,950		2,100				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						4.60			
		H	m	3.10						3.80						4.00			
	Machine Weight		ton	85		89		90		180		200				260			

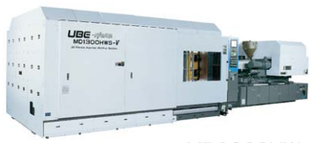
Re) 1.SI unit is used for the above spec sheet.
2.Theoretical injection Volume is （Screw Dia. Cross section area）×（Screw stroke）
3.Injection Volume is calculated for PS, which would be almost 92% of the theoretical injection volume.
4.Plasticating volume is assumed with PS material.
5.Max. Injectiion Pressure and hold pressure might be limited due to the Injection conditions.
6.These above values are subject to changed without prior notice.

SR Safety Requirements JIMS K-1001 2008
日本産業機械工業会規格
JIMS K-1001 適合

ISO9001・ISO14001 OHSAS 18001

R50
古紙パルプ配合率50%再生紙を使用
Utilizing 50% post-consumer recycled paper pulp

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


MD1300HW


UF1600


MD3000HW

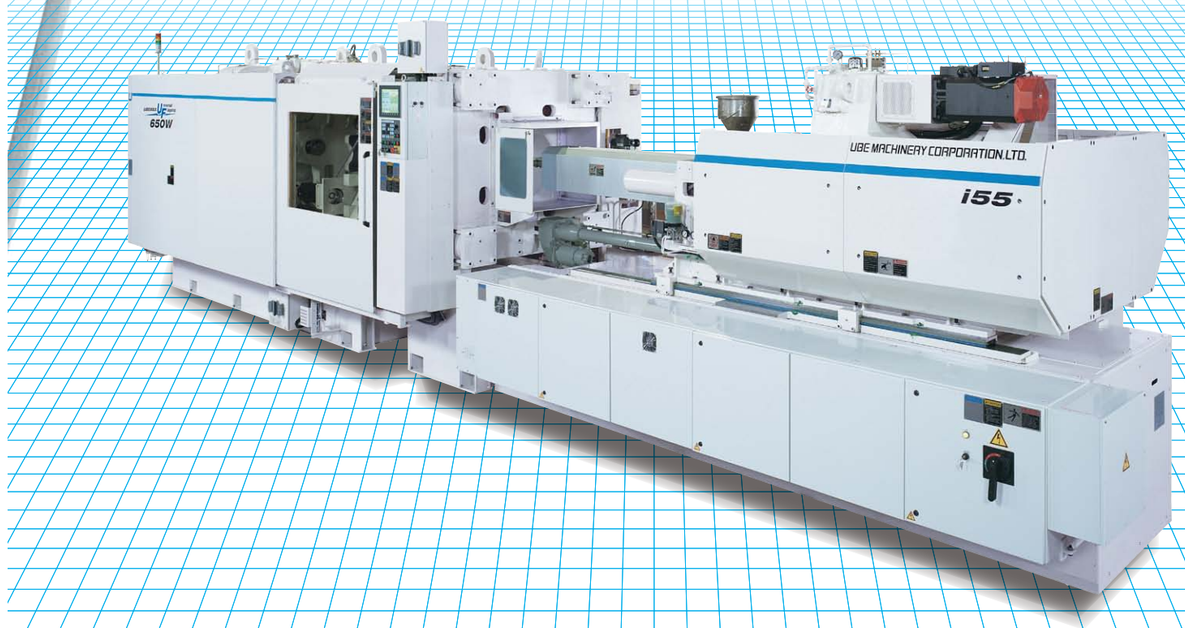
UBE / UBE MACHINERY CORPORATION,LTD.
Main web site
http://www.ubemachinery.co.jp

2014.12 Omura

UBE

All Electric Injection Molding Machine

UBEMAX Universal Flagship Series



UBE MACHINERY CORPORATION,LTD.

UBEMAX UF

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

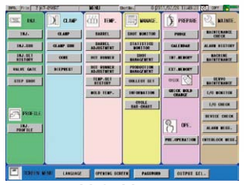
UF650W

New e-HUMMA Controller

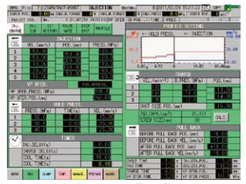
e-HUMMA offers simple operation for complete utilization

e-HUMMA
HUMAN MACHINE
Collaborate with
Mold-Link

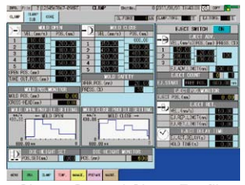
*Mold-Link® is Exclusive to UBE Information System Co.



Main Menu

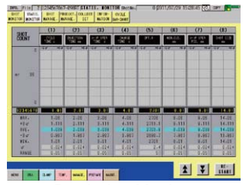


Injection Profile

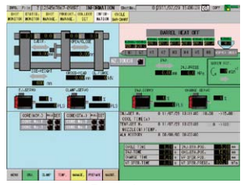


Clamp Open / Close Profile

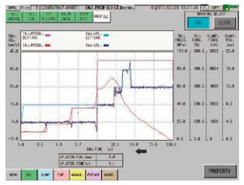
Heat Profile



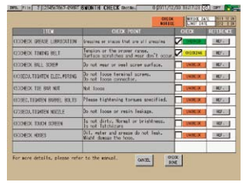
Statistics Monitor



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

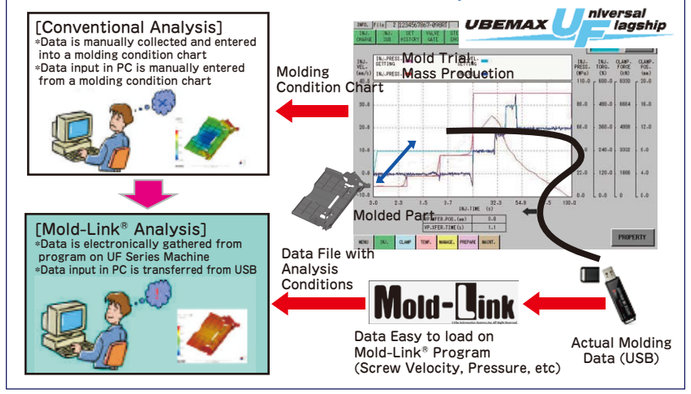
[Control System]

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

[CAE Analysis Software (*optional item*)]

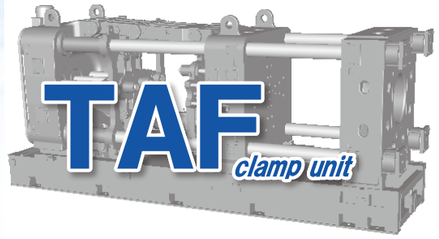
- Mold-Link® (CAE Analysis Software), exclusively designed by UBE Information System Co., is an interactive software that analyzes actual molding conditions.

UBEMAX-UF Mold-Link® Comparison

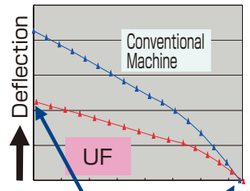


Rigid Clamp Design "TAF clamp®"

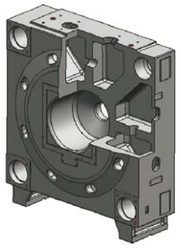
TAF clamp : Increase Rigidity



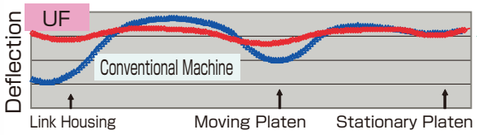
60% Deflection Reduction



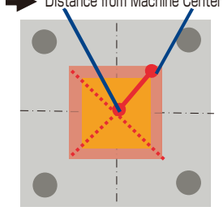
UBE's proven "Box Sleeve" designed platens have achieved a 60% reduction on platen deflection.



50% Deflection Reduction

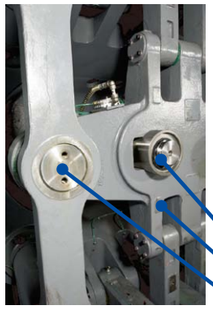


Machine Base Stability Comparison



Platen Deflection Comparison

New Advanced Ball Screw Design



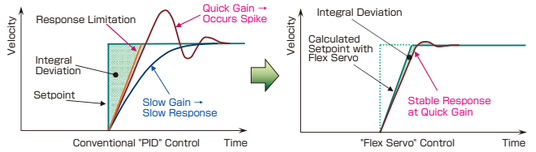
Ball Screw for Toggle

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.

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.

Flex Servo
Modern Control Theory



Control Comparison

Distinguished Energy Saving

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

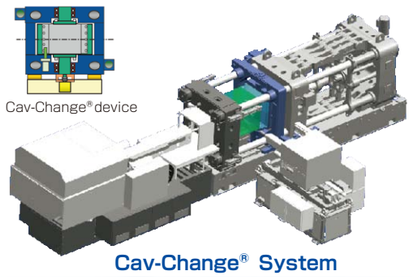
Electric Power Safety Gate (Optional Item)

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.

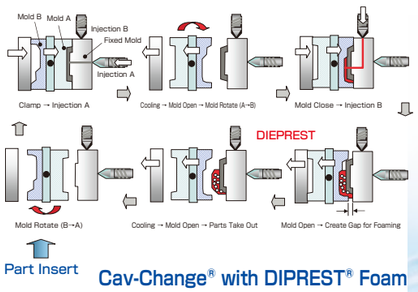
Value Added Process Technologies (Optional Item)

Cav-Change®
DIEPREST®

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