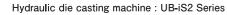
UB-iV Series Main Specifications

Items			Units	UB1250iV - J	UB1250iV-W	UB1650iV-J	UB2250iV-J	UB2250iV-W	UB2500iV-J	UB2800iV-J	UB3050iV-J	UB3550iV-J
Clamping	Clamping force		kN	12,500	12,500	16,500	22,500	22,500	25,000	28,000	30,500	35,500
	Dimension of die plate (L x W)		mm	1,930 x 1,800	2,030 x 2,335	2,260 x 2,060	2,370 x 2,330	2,400 x 2,500	2,515 x 2,500	2,640 x 2,590	2,640 x 2,590	2,800 x 2,750
	Read between tie bars (L x W)		mm	1,250 x 1,120	1,250 x 1,525	1,500 x 1,300	1,500 x 1,400	1,500 x 1,550	1,700 x 1,600	1,700 x 1,600	1,690 x 1,590	1,750 x 1,750
	Die stroke		mm	900	900	1,000	1,180	1,180	1,300	1,300	1,300	1,500
	Die thickness (min. to max.)		mm	750~1,500	750~1,500	800~1,600	850~1,700	850~1,700	850~1,700	850~1,700	850~1,700	1,000~2,000
	Die height adjustment speed		mm/min	50~150	50~150	50~150	50~150	50~150	50~150	50~150	50~150	50~150
Injection	Injection force max. (Nominal)	S	kN	820	820	1,044	1,294	1,294	1,294	1,458	1,458	1,691
		М		1,044	1,044	1,294	1,458	1,458	1,458	1,691	1,691	1,941
		L		1,294	1,294	1,458	1,691	1,691	1,691	1,941	1,941	2,493
	Plunger stroke		mm	950	950	1,000	1,120	1,120	1,120	1,250	1,250	1,250
	Tip projection stroke		mm	375	375	400	450	450	450	500	500	500
	Shot position		mm	-300	-300	-350	-350	-350	-350	-350	-350	-400
	Injection speed		m/sec	0.1~10.0								
	Plunger tip diameter	Small	mm	90	90	100	120	120	120	120	120	120
		Standard		110	110	120	130	130	130	140	140	140
		Large		130	130	140	140	140	140	170	170	170
Ejection	Ejector force		kN	588	588	657	784	784	833	833	833	980
	Ejector stroke		mm	150	150	160	180	180	180	180	180	200
General	Motor for hydraulic pump		kW	50 x 1	50 x 1	75 x 1	50 x 2					
	Machine weight		ton	80	90	110	145	145	150	170	175	200

Note: Appearance, Specifications, Numerical Data of die casting machine may change for improvement without notice

Medium/Large Size die casting machine Lineup (3750kN~40000kN)







Two platen hybrid die casting machine : UH Series

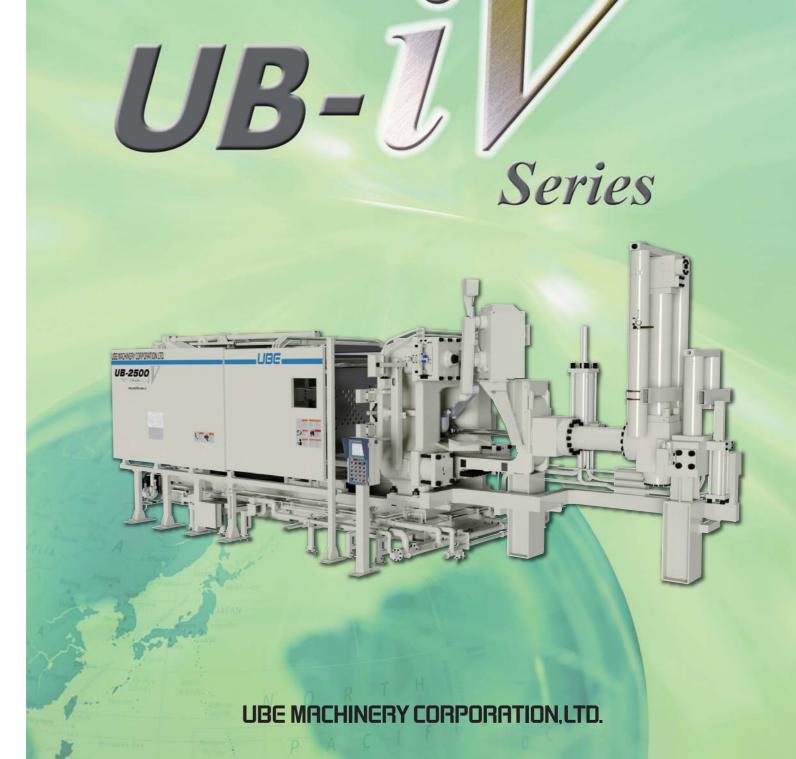








Large size Die Casting Machine

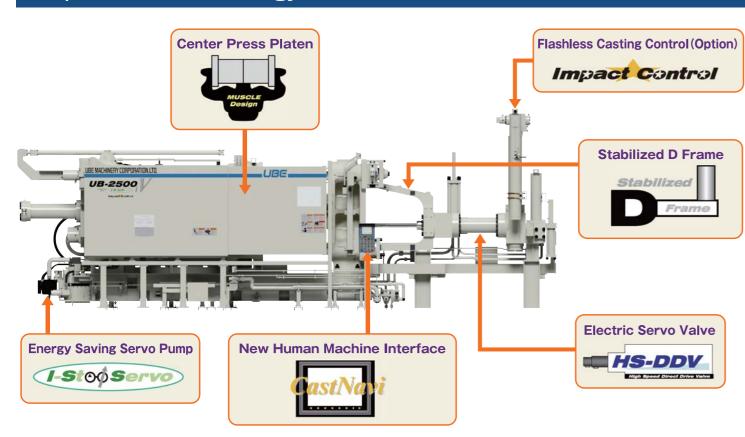


Global Standard Die Casting Machine

UB-1 Series

Global standard machine UB-iV series, equipped with new technology first in its class and exclusive technology.

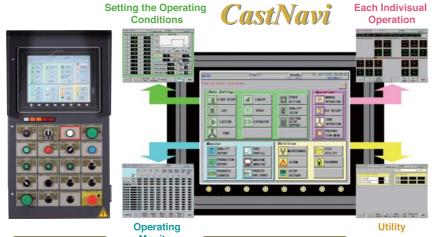
Adoption of new technology for UB-iV series



New Human Machine Interface CastNavi®



- Adoption of large 12.1 inch color touch panel on operation panel of human machine interface.
- Simplified operation panel reducing hard switches which are shifted to screen panel.
- Achieved visibility and operability by using graphic symbols, being independent from language.
- Identifiable background color by category.
- Friendly and memorable design of screen.
- Touch panel displays operating condition of each unit on the same layout on the screen as actual valves location. That enable operator to see screen display easy and find machine troubles early.
- 8 step easy-setting of casting condition on newly developed interactive setting mode.



Center Press Platen



- With center press technology, an equal clamping force is distributed through out the die. It reduces flash, exert an effect on low pressure casting & reducing clamping force.
- High level CAE analysis and optimum shape design reduce the deflection and achieve high rigidity.



Moving Platen

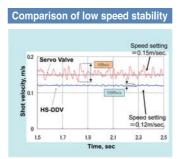
MUSCLE Design platen structure



Electric Servo Valve HS-DDV® High Speed Direct Drive Valve



- Adoption of Servo motor driven valve which is die casting environment proof. Tremendous improvement of contamination resistance.
- All digitalized New control logic.
- Outstanding stability of Low Speed.
- Achievement of energy saving by elimination of hydraulic pilot line.





HS-DDV

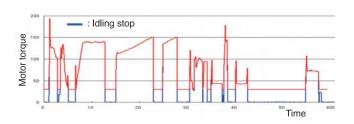
Energy Saving Servo Pump I-Stop Servo®

- First in its class! Servo motor for the main pump with "Idling stop" & "Rotational Speed Control" is equipped as standard and it achieves tremendous energy saving!
- Cut unnecessary consumed power by stopping motor during unloading of pump. This feature is more effective for the product which requires longer cycle time by more cooling and spray time.
- Contributes reduction of cycle time by the maximum rotation=2,000rpm.



Servo Pump

Idling stop and servo pump control



Stabilized D Frame



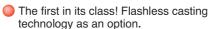
Modeling clamp unit and shot unit. Through high level CAE (ADVC), movement of shot unit is quantitatively-analyzed. Optimally-designed injection D shape frame brings longer life of tip & sleeve.

Sample picture by high level analysis Sample picture by high level analysis



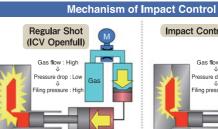
Stabilized D Frame

Flashless Casting Control (Option) Impact Control®



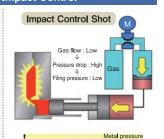
- It enables to maintain flashless and good quality by controlling impact pressure without changing speed.
- It controls gas pressure by changing degree of opening of valve which is newly set between accumulator and gas bottle and is remote controlled.
- To achieve further flashless casting incorporated with Center Press Platen.

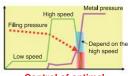
Impact Control





Same as conventional injection characteristics





Control of optimal gas pressure



Impact Control Valve