

UH-Series

2-PLATEN, HYBRID CLAMP, LARGE DIE CASTING MACHINE

Model sizes currently available: 1250 ton, 1650 ton, 2250 ton

Three New Concept Keywords

“Space technology”

Space-saving design

“Universal technology”

Sophisticated functions

“Hybrid technology”

Energy saving

2-platen hybrid clamping unit

A hybrid clamping unit with an electrical powered die opening and closing system and a hydraulic clamp achieved the world's smallest operation space.

A toggle-free structure is expected to eliminate the need for troublesome toggle overhauls and platen parallelism adjustment has enabled a maintenance-free design.

Wide Platen

Each UH Model is equipped, as a standard, with a wide platen equivalent to one size larger tonnage class (1250ton has platen sizes typical of 1650ton, 1650 of a 2250, & 2250 of a 2500). This enables machine downsizing when casting large products.

Tie-bar Removal Unit

An industry first, tie bar removal unit on the fixed platen (patent pending) does not need the space to the rear of the clamping unit, thereby enabling an improvement in space productivity.

Servo Pump

Available as an Option, the UH Series can be furnished with a servo-motor operated hydraulic pump (providing energy only when needed) to further reduce the environmental burden of the equipment.



User-friendly Operation Panel

A large, 12.1" color HMI (Human-Machine Interface), utilizing a universal GUI (Graphical User Interface), enhance the ease of operation and visibility.

Advanced, high-powered Injection Unit

The UH Series are equipped, as standard, with an ultra-fast injection unit (Max. = 10 m/sec). This enables rapid filling, even in the die-casting of large products and thin and long products.

Variable Clamping Force Control

An optional control device allows independent control of *incremental* and *clamping balance*. Incremental control allows for varying clamp forces throughout the cycle, reducing pressures during cooling stages, thus reducing energy use. Clamping balance allows for varying forces to be applied to the upper and lower tie-bar units, thus achieving a parallelism balance.

Space-saving design

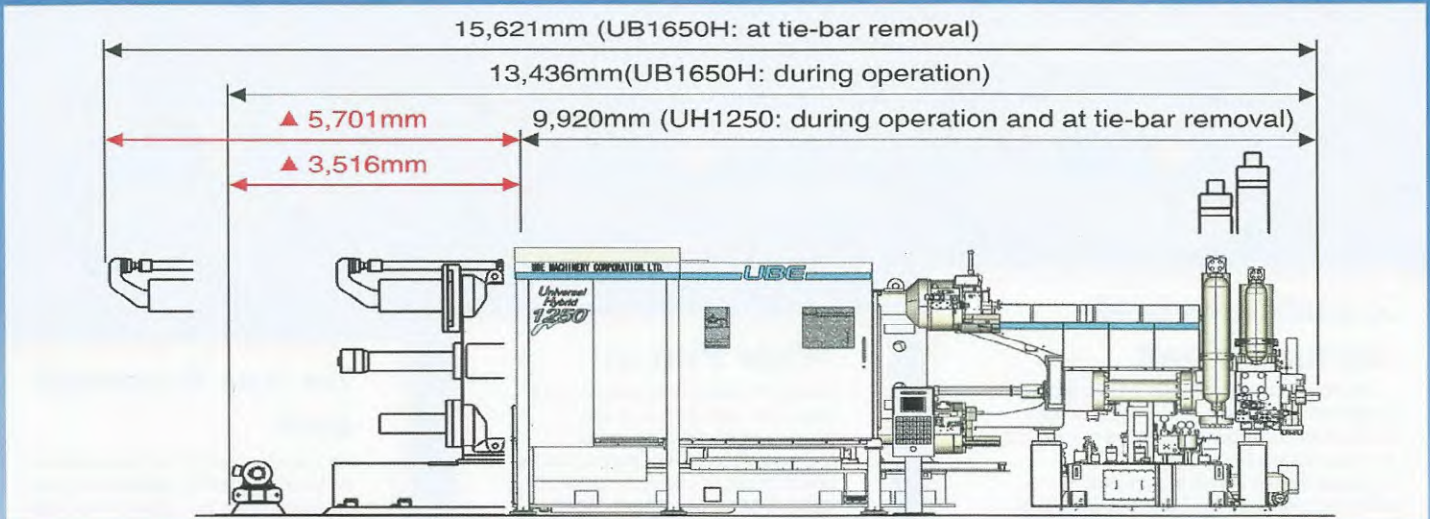
The 2-platen clamping unit and the fixed side tie-bar removal unit offers you to keep operation space down to a world-beating length of under 10 meters, the first epoch machine in this classification.

Energy-saving

Servo pump (speed control) is available as an option for further reducing the environmental burden of the equipment.

High cycle

* Dry cycles have been reduced by changing the safety hook to a ratchet-type and enabling the operator to set any die opening strokes.
* Motorization of die opening and closing operations also enables lap movement with the core operations.



Main specifications

Item		Units	UH1250	UH1650	UH2250
Clamping Unit	Die clamping force	metric ton	1,250	1,650	2,250
	Die plate dimensions (V x H)	mm	2260x2060	2430x2480	2600x2500
	Tie bar distance (V x H)	mm	1500x1300	1500x1550	1700x1600
	Tie bar diameter	mm	224	265	300
	Die stroke	mm	1100(~1600)	1100(~1600)	1400(~1700)
	Die thickness (min. to max.)	mm	1400~900	1600~1100	1700~1400
Injection Unit	Injection force (nominal)	ton	106~48	132~60	149~67
	Injection force (88% pressure)	ton	93	116	131
	Plunger stroke	mm	1,000	1,120	1,120
	Plunger tip projection stroke	mm	400	450	450
	Injection position	mm	350	350	350
	Injection speed (low speed dry injection)	m/sec	0.10	0.10	0.10
	Injection speed (high speed dry injection)	m/sec	10	10	10
	Plunger tip diameter (max./STD/min.)	mm	100/120/140	120/130/140	120/130/140
	Casting pressure (maximum)	MPa	92	98	110
	Plunger tip diameter : STD)	kgf/cm2	938	995	1,123
	Casting area	cm2	1,333	1,658	2,003
Ejection	Ejection force	KN	657(67t)	784(80t)	833(85t)
	Ejection stroke	mm	160	180	180

* Specifications may change without notice.