

**UBE**



**iV**

Large size Die Casting Machine

**UB1650*iV***

宇部兴产机械(上海)有限公司

UBE MACHINERY (SHANGHAI), LTD.

# 全球标准设备

# UB1650 *iV* 上海制造

搭载了行业领先的、独一无二的新技术，UB1650 *iV* 上市！

均匀受压模板



稳定的D框架



节能型伺服泵



全新人机界面



电动伺服阀

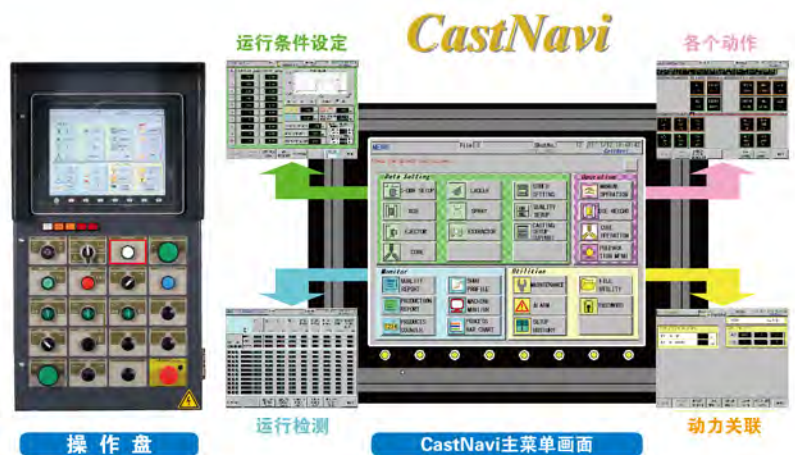


## 全新人机界面CastNavi®

New Human Machine Interface CastNavi®



- 在操作盘人机对话界面采用了12.1英寸彩色触摸屏。  
Adoption of large 12.1 inch color touch panel on operation panel of human machine interface.
- 把使用频率较低的开关，特殊动作操作开关等整合在触摸屏中，操作盘更显简洁。  
Simplified operation panel reducing hard switches which are shifted to screen panel.
- 采用世界共同象征符号标示，操作更加简易。  
Achieved visibility and operability by using graphic symbols, being independent from language.
- 各个不同功能区域，采用不同底色块，使其一目了然。  
Identifiable background color by category.
- 采用更加亲和、易记的画面设计。  
Friendly and memorable design of screen.
- 各单元动作状态表示采用感应器配置和阀配置并整合在同一画面里，这样不仅提高了视觉效果而且大大提高异常发生部位的早期发现。  
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个步骤完成设定！新开发的对话型简易设定模式，使用简单。  
8 step easy-setting of casting condition on newly developed interactive setting mode.



# UBE DIE CASTING MACHINE UB1650 iV

搭载了行业领先的、独一无二的新技术，UB1650 iV上市！

## 均匀受压模板

Center Press Platen



均匀受压模板方式降低变形弯曲，实现了高刚性。通过把锁模力均匀分布于模具面，大大减低铸造飞边，充分发挥低压铸造和锁模力低减效果。

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.



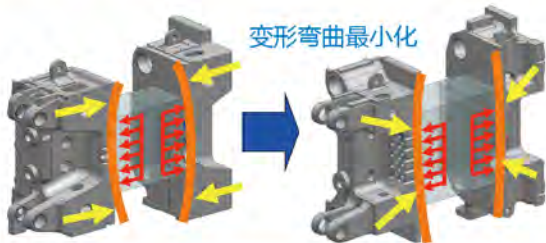
动模板

去除多余，采用加强筋设计。采用高度CAE解析，最佳形状设计。

High level CAE analysis and optimum shape design reduce the deflection and achieve high rigidity.

## MUSCLE Design模板构造

MUSCLE Design platen structure



变形弯曲最小化

## 电动伺服阀HS-DDV®

Electric servo valve HS-DDV® High Speed Direct Drive Valve



采用适合于恶劣的铸造环境下的伺服马达驱动阀。耐污能力大大提高。

Adoption of Servo motor driven valve which is die casting environment proof. Tremendous improvement of contamination resistance.

数码化新控制逻辑。

All digitalized New control logic.

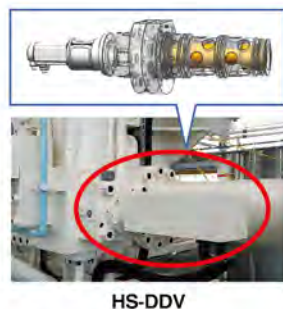
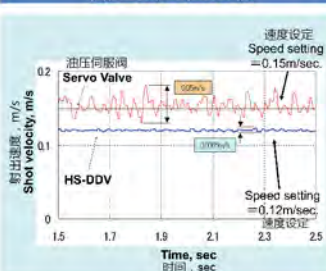
卓越的低速安定性。

Outstanding stability of Low Speed.

由于省略了油压导向管线，因而实现了节能效果。

Achievement of energy saving by elimination of hydraulic pilot line.

### 低速安定性比较



HS-DDV

## 节能型伺服泵I-Stop Servo®

Energy Saving Servo Pump I-Stop Servo®



行业领先！搭载了怠速停止&转速控制的伺服泵，实现了大幅省电的目标。

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!

设备动作以外，泵无负载时马达停止，大大节约了耗电。特别是冷却和喷淋时间等周期较长时，节能效果更明显。

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.

最大转速=2,000rpm，为周期短缩作贡献。

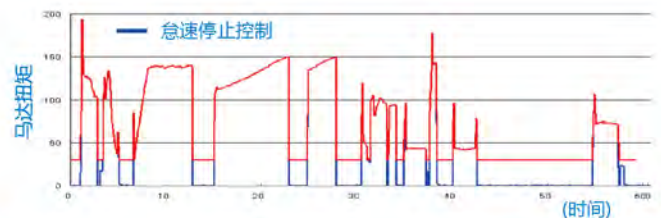
Contributes reduction of cycle time by the maximum rotation=2,000rpm.



伺服泵

## 怠速停止&转速控制

Idling stop and servo pump control



## 稳定的D框架

Stabilized D Frame



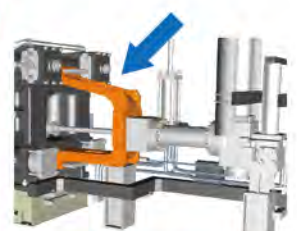
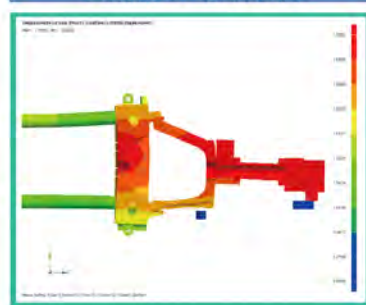
锁模单元以及压射单元模块化并实施了大规模高度CAE解析(ADVC)，对压射装置的动作进行了定量化分析。

Modeling clamp unit and shot unit. Through high level CAE (ADVC), movement of shot unit is quantitatively-analyzed.

压射D框架的最优化设计，使冲头/压室的使用寿命得以延长。

Optimally-designed injection D shape frame brings longer life of tip & sleeve.

### 大规模CAE解析事例



稳定的D框架

# UB1650iV 主要技术规格

项目 Items		单位 Units	UB1650iV	
合模 Clamping	锁模力	Clamping force	kN	16,500
	模板尺寸 (纵 x 横)	Dimension of die plate (L x W)	mm	2,260X2,060
	拉杆间距 (内侧) (纵 x 横)	Read between tie bars (L x W)	mm	1,500X1,300
	合模行程	Die stroke	mm	1,000
	模厚尺寸 (最小~最大)	Die thickness (min. to max.)	mm	800~1,600
	模厚调整速度	Die height adjustment speed	mm/min	50~150
压射 Injection	公称压射力	Injection force max.(Nominal)	kN	1,295
	压射油缸行程	Plunger stroke	mm	1,000
	冲头突出量	Tip projection stroke	mm	400
	浇注位置	Shot position	mm	-350
	空射速度	Injection speed	m/sec	0.1~10.0
	冲头直径	最小	Plunger tip diameter	Small
标准		Standard		120
最大		Large		140
顶出 Ejection	顶出力	Ejector force	kN	657
	顶出行程	Ejector stroke	mm	160
全般 General	主电动机 (伺服马达)	Motor for hydraulic pump	kW	75 x 1
	机械重量	Machine weight	ton	110

(注) 压铸设备的外观、技术规格、记载数值等，因技术改进，可能随时进行变更。

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



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