

Shot Maker (option)

OXY Free Shot (Grain) Making, SM3

Common Defect in Metal preparation



Metal Preparation in open atmosphere

- Flux
- Borax
- Contamination from investment

HARMFUL EFFECT for next casting

Always Start casting with OXY Free material

SM3 Shotmaker (option) makes clean and homogeneous shots (grain) for your next perfect casting before introducing metal to the crucible.



Water flow

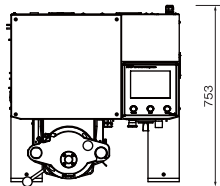


Clean Shot (Grain)

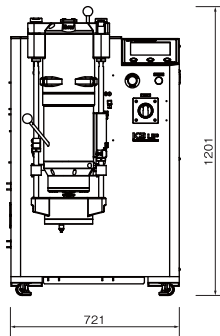


SPECIFICATIONS

Model	VPC K3UP	
Casting system	Vacuum pressure casting system Max. pressure 0.3MPa	
Replacing gas	Single gas (Argon)	
Program memory	100 memories	
Control	Specially designed micro-processor control. Temperature control by PID with accuracy of ± 2 degrees centigrade.	
Heating	Induction heating (with specially designed metal stirring function)	
Oscillation	4KW	
Cooling Water	Tap water direct cooling system more than 3L/min, more than 0.15MPa, Less than 30degrees C	
Flask	Flask is elevated by the air cylinder to secure tight	
Max.flask size	125mm dia,x230mm(H)	
Crucible volume	90cc	
	60cc	
Max.castingamount	Volume	24K: 1.2Kg
		18K: 0.9Kg
		14K: 840g
		925Ag: 600g
Shot maker	Option (Shot Maker SM3)	
Data output	USB Memory (2-16GB)	
Max.temp.	1200degrees C	
Ultimate vacuum	0.1 to 10hPa (depends on the vacuum pump)	
Vacuum filter	High mesh	
Power source	AC380V $\pm 10\%$, 50/60Hz 3 phase, 5.5KVA	
Net Weight	Approx. 190Kg	



753



1201

721

(Unit : mm)

*Specially-made connecting cable (option) is necessary.

●Product information is as of November, 2014. Such information including specifications will be subject to change without prior notice.

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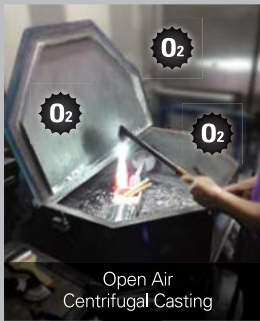


Surface UP

Filling UP

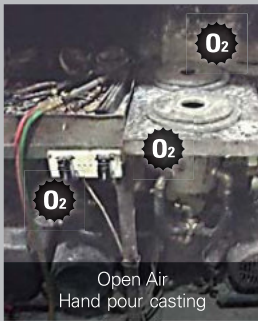
Metal Saving UP

Common Defect



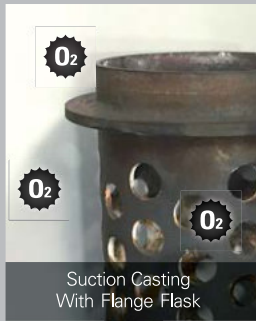
Open Air Centrifugal Casting

No temp control
Rough Surface Impossible to recycle metal



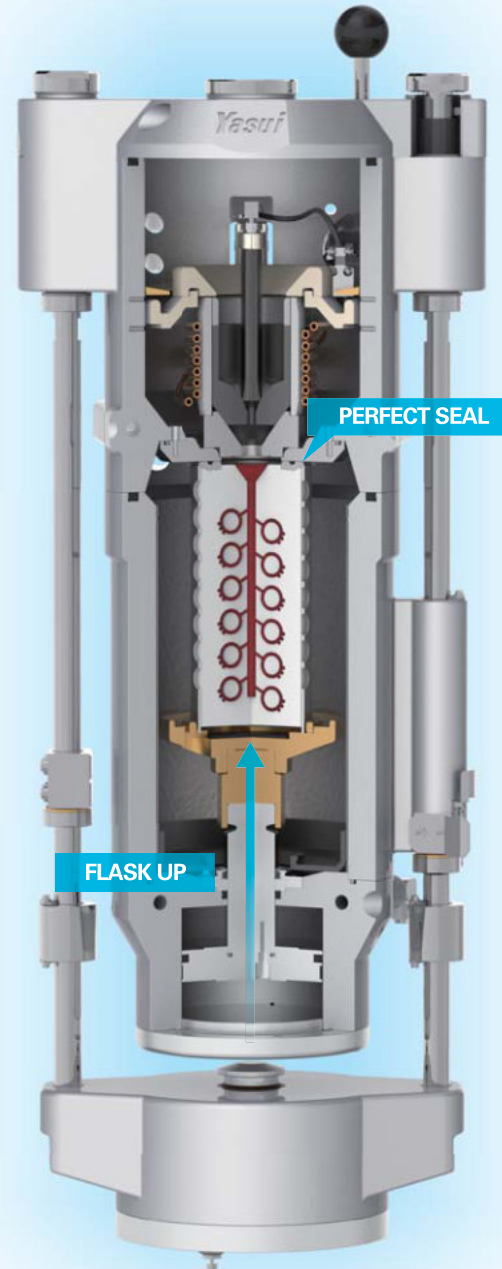
Open Air Hand pour casting

Bad Flow
Bad Filling



Suction Casting With Flange Flask

Turbulence
Bad sealing

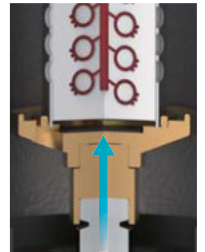


O₂ FREE OXY-Free Technology

Like all Yasui machines, thanks to the OXY free technology K3UP achieves the complete vacuum atmosphere for less metal loss and the best filling. Longer crucible life for additional cost saving.



PERFECT SEAL



FLASK UP

E-Touch YASUI Common Touch Panel System

Full set parameters in Memory with Comments



Variable Heat

Heat output control to minimize alloy evaporation

Zinc in alloy near crucible starts to be melted just after start heating. And Zinc can be evaporated before mother metal starts to be melted. This can connect to increase of purity of mother metal, which means loss.

K3UP solves this problem with Variable Heat.

