

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

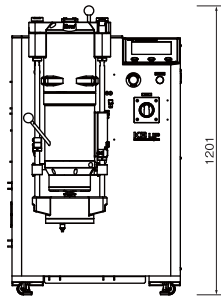
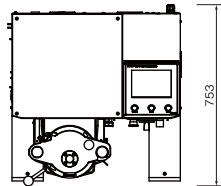


Clean Shot (Grain)



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 ±2degrees 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
Max.castingamount	Volume	60cc
	Weight	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 ±10%, 50/60Hz 3 phase, 5.5KVA
Net Weight		Approx. 190Kg



(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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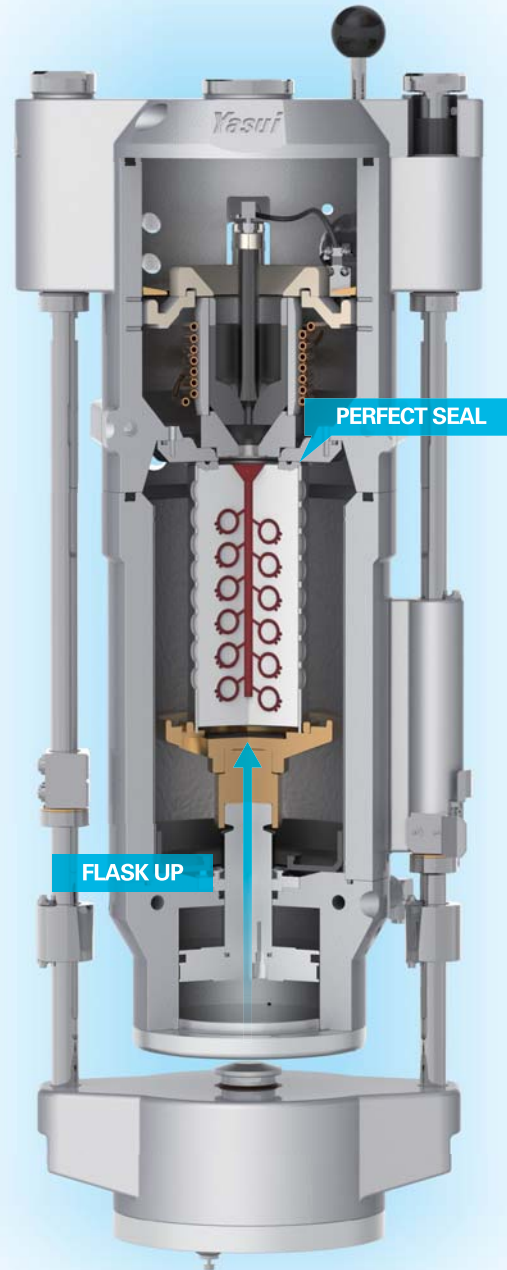
Casting Quality **UP** by **K3 UP**



Surface UP

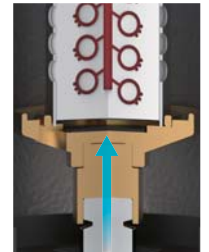
Filling UP

Metal Saving UP



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.

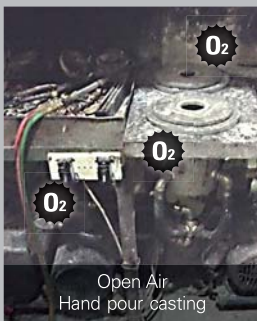


Common Defect



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