

HIGH TEMPERATURE CASTINGS. EXPERT RESULTS.



INTELLICASTER.ONE



The Intellicaster.One casts all high temperature alloys including all platinum, palladium, nickel, and all stainless alloys. Special versions can even cast titanium. Lower temperature metal alloys such as all golds, brasses, bronzes, and silvers can also be cast.

All high temperature casting requires the use of a high temperature investment that is not as porous as the standard gypsum investment. Filling flasks with this investment is more difficult due to the fact that air and gases cannot escape quickly. This results in air pockets producing non-fills. The Intellicaster.One has a vacuum chamber that encloses the crucible and flask while melting and spinning. This solves the problem of air pockets in the flask. The metal is centrifugally cast under vacuum. The vacuum pump is built into the machine housing. Since this is a closed system, the metal may be melted under vacuum or a protective gas.

Platinum alloys exhibit a high casting temperature and a low specific heat. This combination results in extremely rapid freezing of the metal when the heat is removed. Our newest units have a unique patented arrangement whereby the work coil and crucible spin with the flask continuing to heat the metal as it flows into the flask. This solves the problem of premature freezing yielding a partial casting.



Improve quality through precision control of temperature, power, spinner torque, speed and duration. Each metal has different casting characteristics. The important parameters are set for each alloy. The optical pyrometer indicates the actual temperature and initiates the spin cycle. All controls and displays are centrally located for the convenience of the operator. At the end of the spin cycle, the lid is automatically released and the flask is removed.

The Intellicaster. One gives proven reliability through all solid state design using only heavy-duty industrial components. The induction coil is fully insulated to protect against shorts and damage to machine or operator. A reliable, simple, long life vacuum system requires minimum maintenance. Only the Intellicaster. One has adjustable crucible standoffs to line up the crucible spout to the flask and also improve arm balance. The Intellicaster. One has insulation material in the floor of the casting tub to prevent molten metal from welding to the vacuum chamber. The Intellicaster. One has a modified flask cradle to hold inch-dimensioned flasks used in North America. Backed by Memco's exclusive **THREE YEAR WARRANTY**, the Intellicaster. One is the best buy for your high temperature casting needs.

SPECIFICATIONS

Model	18-8540	18-8543	18-8544	18-8545	18-8546
Control	Analog	Digital	Digital	Digital	Digital
g Pt	350	350	450	150	200
g Ti	---	---	---	80	80
g Au	800	800	1000	350	450
Flask	4.0 Ø x 4.5 H	4.0 Ø x 4.5 H	4.5 Ø x 6.0 H	3.5 Ø x 3.5 H	3.5 Ø x 3.5 H
Kw	7.5	7.5	7.5	4.0	5.0
Volts, Type	230V, 3 Ø	230V, 3 Ø	230V, 3 Ø	230V, 1 Ø	230V, 1 Ø
Air, psi	90	90	90	90	90
Water, psi	45	45	45	45	45



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