



## BENEFITS OF INDUCTION HEATING

- Improved energy efficiency compared to resistance or flame heating
- High degree of controllability, repeatability and quality of samples
- Increased productivity by rapid melting and sample casting
- Optimal mixing of the melt provided by the induction heating field
- Easy handling with operation safety at increased temperatures
- Low maintenance requirements, easy to use systems

The Supercast Pro systems have been developed specifically for sample preparation and QC testing in research, recycling, foundry or metallurgical facilities.

Utilizing latest high frequency induction heating technology, capable of melting all metals and alloys (precious and non-precious) in ingot or powder form.

Patented RCS (Rotating Coil System) ensures producing samples with excellent

repeatability and quality.

Very high melting efficiency and speed, capable of producing up to 12 casting samples per hour in 24 hour operation.

Compact, reliable systems with integrated vacuum pump and water cooling. Easy to install, operate and maintain.

CE certified with integrated safety and protection features.

### HEADQUARTERS:

158-2 Remington Blvd  
Ronkonkoma, New York 11779  
Tel: 631.467.6814  
sales@ultraflexpower.com



[www.ultraflexpower.com](http://www.ultraflexpower.com)



## FEATURES

- Patented rotating coil system – coil rotates with the arm and flask keeping the metal in liquid phase during the injection
- Built in vacuum pump and Argon gas circuit with programmable vacuum/argon washing cycles
- Built-in Infrared pyrometer with temperature control
- Fully automatic or manual control of the casting process
- Modern digital controls with self diagnostic features
- Multiple user programs with programmable parameters: power level, rotation speed, acceleration, melting temperature, holding time
- Internal water cooling system. Optional external chiller for continuous operation

## SPECIFICATIONS

	SuperCast AP5	SuperCast A5
Absorbed Power kW (max)	5.0	5.0
Frequency kHz	380-450	90-100
AC Line Volts (50/60Hz)	230 ±10%	230 ±10%
Line Phases	1	1
Crucible Capacity	10-30 ccm	200g Pt, 170 AU, 80g Ti
Type of material	Powder	Small pieces
Max Melting T°	2000 C°	2000 C°
Cooling System	Water-Internal	Water-Internal
Weight Lb (kg)	440.9 (200)	440.9 (200)
Dimensions Inch (cm) LxWxH	26.4" x 22" x 41.3' (67 x 56 x 105)	26.4" x 22" x 41.3' (67 x 56 x 105)

## APPLICATIONS

Spectroscopy, XRF and RFA sample preparation, re-melting, fusion of metal alloys and powders, casting of AAS, ICP, X-Emission samples, metallurgical research, Titanium and special metals casting

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