



### BENEFITS OF INDUCTION HEATING

- Improved energy efficiency
- Higher degree of controllability
- Increased repeatability
- Low maintenance requirements
- Increased productivity

SuperCast J is the most advanced universal casting machine on the market utilizing the patented Rotating Coil System (RCS). The RCS continues to melt the metal while spinning and injecting. This way the system maintains the molten metal's viscosity during casting and prevents premature solidification due to coil lifting and injection delays. This unique feature guarantees perfect casting results with high-temperature, fast solidifying metals such as Platinum, Palladium, and Titanium.

Our popular high-end Supercast J models are fully automatic and can cast with excellent quality and repeatability all precious and non-precious metals and alloys. The powerful motor with high acceleration and speed guarantees very low porosity and high compacting of the metal.

Advanced high-frequency induction heating generator provides fast and efficient melting and mixing of all metals in grains, ingots, scrap or even powder form.

The modern LCD Touch control panel features an easy to use interface and provides intuitive and informative visual feedback. It displays the measured process parameters, receives user input, sets various parameters and saves multiple programs. It also displays diagnostic and warning messages.

#### HEADQUARTERS:

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



### FEATURES

- Fully automatic (one button) or manual casting cycle
- Built-in vacuum pump and inert gas (argon or nitrogen) circuit
- Coil rotation with arm and flask - metal is continuously heated and injected while the coil rotates
- Accurate temperature reader with advanced temperature controller and metal emissivity regulation
- Allows casting with precious stones in place
- Advanced, highly efficient induction heating technology
- Modern 5" full color LCD touch control panel
- Multiple user programs with many pre-programmed settings
- Special programs for titanium casting (Supercast J5 models)
- Easy to install and very simple and safe to operate

### SPECIFICATIONS

	Supercast Lite J4	Supercast Plus J5
<b>Power (max)</b>	4.0 kW	5.0 kW
<b>AC Line</b> (50/60Hz), 1 Phase	230 V ±10%	230 V ±10%
<b>Melting Temperature (max)</b>	2000 °C	2000 °C
<b>Crucible Capacity</b>	200g Pt (50g Pt min), 170g Au, 80g Ag	200g Pt (50g Pt min), 170g Au 80g Ti (10g Ti – ingot), 80g Ag
<b>Crucible Volume</b>	Graphite insert 10 cm <sup>3</sup> Ceramic 30 cm <sup>3</sup>	Graphite insert 10 cm <sup>3</sup> Ceramic 30 cm <sup>3</sup>
<b>Flask Size (max)</b> , DxH	90 mm x 90mm	90 mm x 90mm
<b>Water Cooling System</b>	included	included
<b>Vacuum Pump</b>	included	included
<b>Auto-Cast Programs</b>	No	Yes
<b>Titanium casting program</b>	No	Yes
<b>LCD touch control panel</b>	No	Yes
<b>Weight</b>	155 kg (342 Lb)	175 kg (385.8 Lb)
<b>Dimensions</b> , LxWxH	64 cm x 67 cm x 105 cm (25.2" x 26.4" x 41.3")	64 cm x 67 cm x 105 cm (25.2" x 26.4" x 41.3")

### APPLICATIONS

Casting – centrifugal.

