



### BENEFITS OF INDUCTION HEATING

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

CS Digital is our top of the line, large universal centrifugal casting systems perfect for high volume jewelry manufacturers with demanding requirements.

The CS Digital range of casting machines can cast all metals and alloys commonly used in the jewelry manufacturing – gold, silver, steel, platinum, palladium, and many more.

This powerful induction heating generator provides fast and efficient melting and mixing of precious and non-precious metals and alloys.

A heavy-duty DC motor delivers high speed and high acceleration centrifugal casting, resulting in excellent compacting of the metal and perfect filling of the finest details.

Integrated Infrared temperature control ensures perfect casting quality and repeatability. An advanced Dual-wave IR pyrometer is available as an option.

The modern LCD Touch control panel features an easy to use interface and intuitive 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:

158-2 Remington Blvd  
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[ultraflexpower.com](http://ultraflexpower.com)



## FEATURES

- Centrifugal injection with pneumatic movement for fast coil descent
- Accurate temperature controller (up to 2000 °C)
- Centrifugal arm balancing with adjustable counterweights
- Advanced 5" full-color LCD touch panel with remote diagnostics capabilities
- Melting power regulation from 10% to 100%
- Powerful DC motor with reduction gear and adjustable acceleration
- Max rotating speed – 500 rpm. Rotation timeout pre-set at 40 sec.
- Auto locking of the chamber lid during centrifugal phase for maximum safety
- Integral powerful vacuum pump
- Inert (Argon or Nitrogen) gas circuit included

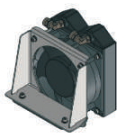
## SPECIFICATIONS

	CS1 - D	CS2 - D	CS3 - D
<b>Power (max)</b>	7.5 kW	7.5 kW	10.0 kW
<b>AC Line</b> , (50/60Hz), 3 Phase	230 V ±10% 380 V/480 V ±10% (optional)	230 V ±10% 380 V/480 V ±10% (optional)	230 V ±10% 380 V/480 V ±10% (optional)
<b>Melting Temperature (max)</b>	2000 °C	2000 °C	2000 °C
<b>Crucible Capacity</b>	350g Pt (90g Pt min) 290g Au	750g Pt (190g Pt min) 650g Au	1 kg Pt (250g Pt min) 1.3 kg Au
<b>Crucible Volume</b>	Graphite insert 20 cm <sup>3</sup> Ceramic 25 cm <sup>3</sup>	Graphite insert 40 cm <sup>3</sup> Ceramic 60 cm <sup>3</sup>	Graphite insert 85 cm <sup>3</sup> Ceramic 170 cm <sup>3</sup>
<b>Flask Size (max)</b> , DxH	100 mm x 120 mm	120 mm x 160 mm	150 mm x 180 mm
<b>Vacuum Pump</b>	included	included	included
<b>Cooling Requirements</b> water system quoted upon request	Water (external)	Water (external)	Water (external)
<b>Cooling Water (min)</b>	3 LpM (0.75 GpM)	3 LpM (0.75 GpM)	3 LpM (0.75 GpM)
<b>Inlet Water Temperature (max)</b>	35 °C	35 °C	35 °C
<b>Weight</b>	250 kg (551.1 Lb)	310 kg (683.4 Lb)	330 kg (727.5 Lb)
<b>Dimensions</b> , LxWxH	70 cm x 76 cm x 110.5 cm (27.6" x 30" x 43.5")	91 cm x 103 cm x 110.5 cm (35.8" x 40.6" x 43.5")	100 cm x 110 cm x 110.5 cm (39.4" x 43.3" x 43.5")

## APPLICATIONS

Casting – centrifugal.

### Optional Equipment

	Description	Part Number
HE-018	Heat exchanger 	1ACC-017-500-00
TS-06	UPT Dual Color IR Pyrometer	1ACC-017-450-00

