

# Vacuum Casting Machines

## Semi-Automatic VC Versions

**VC 400** - Equipped with an induction generator that guarantees rapid heat-up and thorough mixing of molten metal through inductive bath movement. Ideal for smaller scale operations that require more moderate quantities yet considerably more capacity than what the MC series has to offer.

**VC 500** - For continuous casting operation of large production quantities. The VC 500 provides enhanced performance with shorter casting times via even larger crucibles as well as larger flask capacities (up to 160 mm / 400mm H). The machine's high maximum temperature of 1600°C further extends the possible range of alloys.



*Load your metal grain of choice into the casting chamber*



*Exceed your throughput demands with Indutherm's wide variety of high-capacity casting machines!*

**Granulating Tanks for VC & CC Series Casting Machines**

A. B. C.



Available for all VC series machines from VC 400 through the VC 12000 as well as all CC machines.

Tank	Compatibility
A. GU 500	VC 400 - VC 650V
B. GU 1000	VC 1000, CC 1000
C. GU 3000	VC 3000, CC 3000

**Specifications:**

	VC 400	VC 500
SKU	78-3001	78-3500
Maximum Power/ Electrical	3.5 kW Single Phase 230V or 4.5 kW Three Phase 400V (1400°C)	10 kW Three Phase 400V Three Phase 208V(1600°C)
Crucible Capacity	170 ccm = 2.5kg Gold 18kt (Standard)	245 ccm = 3.6 kg 18kt Gold (Standard) 386 ccm = 5.8 kg 18kt Gold (Optional)
Maximum Flask Size	130 mm / 240 mm h	130 mm / 240 mm h (Standard) 160 mm /400 mm h (Optional)
Dual Temperature Control	Optional	
Flask Temperature Measurement	N/A	Standard Equipment
Auto. Vacuum/ Overpressure	Standard	Standard Equipment
Flask and Chamber Lift	Optional	Standard Equipment
Temperature Programs	20 Temperature Programs	20 Temperature Programs
Turbo Pressure Function	Standard Equipment	
RS 232, Diagnostic System	Standard Equipment	

# Vacuum Casting Machines

## Fully-Automatic VC Versions

### Turbo Pressure

Optimizes the casting of very small and filigree objects. VC semi-automatic casting machines guarantee perfect results when casting with stones for jewelry production. This feature also allows for user-defined precision pressure to be achieved at a rapid pace.

Turbo Pressure will start automatically depending on the selected program exactly at the required time for all program-controlled VC models.

### Best-in-Class Safety for Certified Production

The VC series' ISO certified casting process provides the user with enhanced safety features and highly specialized program control.

Until recently, flasks with incorrect or different temperatures posed a significant quality and safety risk. VC casting machines eliminate this issue with flask temperature monitoring technology, accurate within a singular degree.



### Consistently Superior Casting Quality

The VC series' special "reduced-oxidation" casting system eliminates the danger of oxidation during flask cool down with up to 25% higher tensile strength. Encounter fewer issues later in the manufacturing process such as ring resizing or stones setting. Automatic inert gas or vacuum within the melting chamber prevents undesired oxidization or inclusions formation during melting; a particularly important when casting silver or red gold.

#### Specifications:

	VC 450 / VC 450V	VC 480V	VC 680V
SKU	78-3300/ 78-3300-V	78-3400	78-4100
Maximum Power/ Electrical	4.5 kW 3 x 400V (1400° C)	8 kW 3 x 400V (1600° C)	12 kW 3 x 400V (1700° C)
Crucible Volume	170 ccm = 2.5kg Gold 18 ct*		245 ccm = 3.6 kg Gold 18 ct* 386 ccm = 5.8 kg Gold 18 ct* (Optional)
Maximum Flask Size	130 mm / 240 mm h		130 mm / 240 mm h 160 mm / 400 mm h (Optional)
Vibration Technology	VC 450 V Only		Standard
Pneumatic Bell Lock			Standard
Maximum Pressure		1.5 bar	3 bar
Programs With LCD Display & Full-Text Readout	20		100
Dual Temp. Control		Optional	Standard
Flask Temp Measurement		---	Standard
Automatic Flask & Chamber Lift			Standard
Variable Vacuum in Flask Chamber			Standard
Turbo Pressure Plus System	---		Standard
Turbulence Reduction System			Standard
RS 232, Diagnostic System			Standard
Data Printer		Optional	Standard
GSM Modem for Remote Service		Optional	Standard
Sintering Kit (for diffusion bonding)			Optional
Granulation Tank			Optional
Automatic Feeding System w/ Automatic Feeding Rod		---	Standard
Additional Gas Tank for Turbo Pressure Plus		---	Standard