



# INDUTHERM

CASTING TECHNOLOGY MADE IN GERMANY

Indutherm is one of Europe's leading suppliers of casting systems with a focus on investment casting of smaller and mid-sized pieces, Rapid Prototyping casting and R&D. You will find a wide range of systems for different sectors.

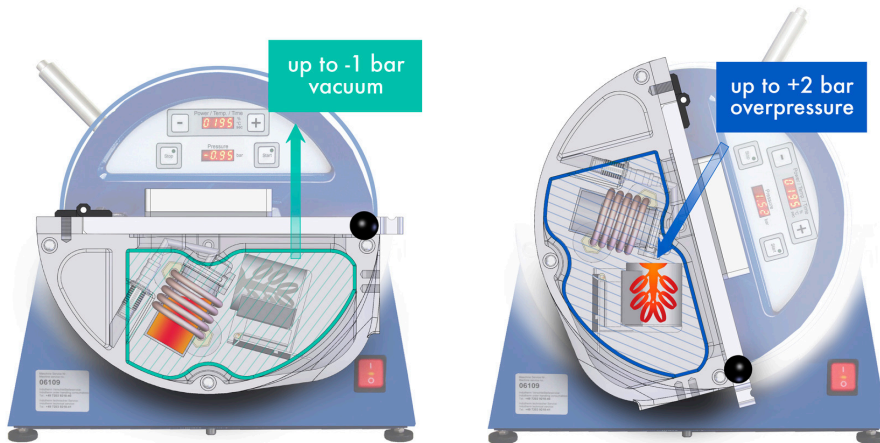
Metal casting and powder production technology is their entire world. From the very beginning they've focused exclusively on the development and construction of melting and casting machines and can offer you a broad diversity of machines for many varied utilizations. Our machine solutions for the metal powder production and processing are completing our product portfolio and meeting your requirements of today and the future.

The compact MC series was developed to provide jewelry designers, goldsmiths, development departments and dental laboratories with a low price yet highly professional casting machine. Our most important aims were: extremely short processing time and mold manufacturing to completed casting; simple, safe operation; high quality and, above all, reproducible casting results; and low operating costs. The overwhelming global success of the MC Series in numerous industries including some not originally envisaged - emphatically confirms the MC Concept.



## MC Casting Machine Series

With MC machines, you can easily cast by hand from the crucible to your mold and feel what you are doing - just as it has been done for thousands of years. This works consistently and safely; the entire melting / casting unit is tilted together at a 90° angle for a perfectly balanced cast made with the fewest amount moving parts. Almost the whole machine moves during tilting; being cylindrical by design, the whole moving section rotates as if in a halfpipe.



**After pouring, the MC Series automatically switch to overpressure in order to optimise the mold filling even for delicate parts. Alternatively it is also possible to keep the vacuum (example shows MC16)**



**Two jewelry trees casted in both gold and silver**

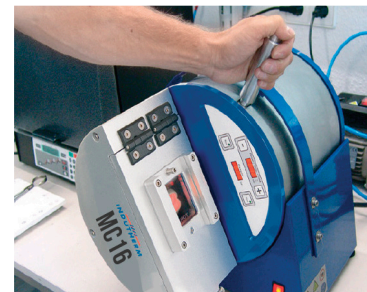
**Handling the mini casting system is also extremely simple:**

1. Fill the crucible with your metal.
2. Take the flask from the oven and insert into the machine. Touch the start button.
3. Pouring off takes place using a 90° rotation of the casting unit. After pouring, the MC series automatically switches to overpressure in order to maximize the density of your castings.



## Good Vibrations

Indutherm's multi-award winning and patent-pending vibration system is now available in a compact casting machine. Using vibration can ensure better form filling, creating casts with greater, more consistent densities, higher elasticity and greatly reduced porosity. Vibration technology is a compelling alternative to the frequently used and relatively delicate centrifugal systems, especially when casting platinum or palladium.



## Detailed LCD Display

The new operating system features individual setting of parameters to achieve maximum performance from every pattern mold and every alloy. Thanks to the transparent layout of the menu structure and the full display, all settings are quick and easy to program. All process parameters can be saved for repeated castings.



### MC16



#### The fast all-rounder for any metal

- Shortest combustion times for the flask in the oven. Approx. 1 hr with a speed investment material.
- With graphite crucible for gold and silver; ceramic crucible for platinum, palladium and steel.
- Maximum temperature 2,000°C.
- Thermocouple temperature control standard 1300°C or optional 1600°C for gold or silver

### MC20 V & MC100 V



### MC60 V



#### Larger capacity version for gold and silver casting

- The same great technology found the MC16 with larger capacity for gold and silver casting
- For flasks up to 100 mm diameter x 120 mm length.
- Now with Vibration Technology

Casting quality, maximum temperature, operation and equipment levels are in fact identical. Even the space requirements differ slightly. Both machines are designed as bench-top models. The decisive differences are the capacity of the crucible volume and flask size.

### Call for pricing

#### For Gold and Silver

	MC16 78-2850	MC20V 78-2100	MC60V 78-2200V	MC100V 78-4500
Maximum Power / Electrical	3.5 KW 230V single phase	3.5 KW 230V single phase	3.5 KW 230V single phase	8 KW 3x400V
Maximum Temperature	2000° C	2000° C	1300° C	2000° C
Casting Volume	100 g Au 18ct 110 g steel / 200 g Pt	100 g Au 18ct 110 g steel / 200 g Pt	450 g Au 18 ct 300 g Ag 925	450 g Au 18 ct 250 g steel 500 g Pt
For flasks up to	ø 30/50/65/80 mm x 80 mm h	ø 30/50/65/80 mm x 80 mm h	Up to ø 80/100 mm x 120mm h	Up to ø 80/100 mm x 120 mm h
Control Panel	LCD, full text readout	LCD, full text readout	LCD, full text readout	LCD, full text readout
Auto. Vacuum / Overpressure	Standard	Standard	Standard	Standard
Vacuum or overpressure after	-1 to +2 bar	-1 to +3 bar	-1 to +2 bar	-1 to +3 bar
Function washing by inert gas	Standard	Standard	Standard	Standard

