

MC SERIES – CHOOSE THE VERSION PERFECTLY FITTING TO YOUR NEEDS



MC 16, the basic model

- Up to 2,000° C
- Run of process with controller
- LCD-display with all program data (20 programs)
- For graphite and for ceramic crucibles, temperature up to 2000° C
- Very easy to use, short training period
- Perfectly suited for small castings and small series
- 3.5 KW induction generator for fast heating
- Even for the casting of steel and platinum

MC 20 V with vibration technology

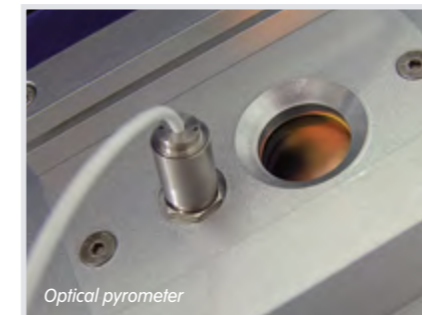
- Up to 2,000° C
- Systematically designed for intricate casting projects and for continuous operation
- Equipped with our vibration system – for better form filling, creating casts with greater, more consistent densities, higher elasticity and greatly reduced porosity
- Overpressure of up to 3 bars (casting under vacuum also possible)
- Optical pyrometer for temperature measurement up to 2000° C

MC 60 V for gold, silver, copper ...

- Up to 1,300° C
- Basing on the same technology as the MC 16, but larger melting/casting unit with much higher capacity
- Hence reduced maximum temperature (1300° C), perfect for gold and silver casting
- LCD-display with all program data
- Vibration technology
- Excellent ratio machine size to capacity: molds up to Ø 100 mm x 120 mm h

MC 100 V – high temperature plus capacity

- 8 kW (3x400 V) power generator for maximum temperature up to 2000° C
- High capacity: crucibles with casting volume of up to 450 g Au 18ct or 500g Pt, for use of molds up to Ø 100 mm x 120 mm h
- Vibration system
- Overpressure of up to 3 bars (casting under vacuum also possible)
- Optical pyrometer for temperature measurement up to 2000° C



A complete casting system covering just a few square fee

- 1 Vacuum investment machine INDU MIX for bubble-free mixing of the investment compound and filling of the mold. The integrated vibrator eliminates any possible air bubbles.

Indumix 2+ for 1 mold 100 x 120mm (Ø x h)
 Indumix 3+ for up to 3 molds 100 x 120mm (Ø x h)
 Indumix 4+ for 1 mold 130 x 250 mm (Ø x h)

- 2 1,000°C furnace AK 20 for melting out the wax and burning out the form. Temperature pre-selection, high-quality insulation.

AK 20 interior size: ~ 300 x 300 x 200 (h) mm
 Also available AK 50: ~ 300 x 450 x 315 (h) mm
 Also available AK 135: ~ 410 x 620 x 575 (h) mm

- 3 MC series casting machine

- 4 Sand blasting cabinet for easy removal of plaster: air pressure requirement: 270 l/min at 10 bar, 150 l/min at 5 bar, connection for suction system, foot switch for adjusting pressure.



A significant factor for the economic efficiency is the low quantity of metal that must be calculated for button.



Perfectly suited for casting of micro parts



When precision counts ...



Perfectly suited for a fast workflow from 3D design > 3D print > casting

Main benefits of all MC machines

- Very simple and safe to operate, short training periods
- All process parameters can be set individually and saved for repeated castings
- Excellent mould filling thanks to high overpressure and vibration system

MC SERIES SMALL HIGH TEMPERATURE CASTING MACHINES

MC FOR GOLD AND SILVER

MC SERIES LARGE HIGH TEMPERATURE CASTING MACHINE



MC 16

MC 20 V

MC 60 V

MC 100 V

performance

power max. / electrical connection
temperature max.

3.5 kW 230 V single phase
2000° C

3.5 kW 230 V single phase
2000° C

3.5 kW 230 V single phase
1300° C

8 kW 3x400 V
2000° C

capacity

casting volume

100 g Au 18 ct / 60 g Cu
110 g steel / 200 g Pt

100 g Au 18 ct / 60 g Cu
110 g steel / 200 g Pt

450 g Au 18 ct / 250 g Cu
300 g Ag 935

450 g Au 18 ct / 250 g Cu
250 g steel / 500 g Pt

for use of molds

up to ø 30/50/65/80 mm x 80 mm h

up to ø 30/50/65/80 mm x 80 mm h

up to ø 80/100 mm x 120 mm h

up to ø 80/100 mm x 120 mm h

handling+control

control panel

by LCD-Display, full text readout

by LCD-Display, full text readout

by LCD-Display, full text readout

by LCD-Display, full text readout

automatic vacuum function

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■

automatic overpressure function

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■

casting also under vacuum only

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■

vacuum or overpressure after casting

■ -1 up to +2 bar

■ -1 up to +3 bar

■ -1 up to +2 bar

■ -1 up to +3 bar

function washing by inert gas

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■

vibration system

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supply: cooling water, inert gas argon or nitrogen

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■

temperature measurement/control

■ up to 1,300°C ○ up to 1,600°C

■ up to 2,000°C

■ up to 1,300°C

■ up to 2,000°C

equipped with an optical pyrometer/dual wave pyrometer

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■ / ○

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■ / ○

quality management

RS 232, Ethernet, USB interface, diagnostic system

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GSM-modem for remote service

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DMS / InduThermCloud / iThermControl

■ / ○ / ○

■ / ○ / ○

■ / ○ / ○

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accessories

vacuum investment mixer Indumix 2+/Indumix 3+

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furnace AK 20/AK 50

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sand blasting cabinet

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vacuum pump, up to 8 m³/h / up to 21 m³/h

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○ / -

○ / ○

- / ○

floor unit

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water chiller

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■ = standard equipment ○ = optional



The MC 100 V as standalone version. The floor base offers enough space to accommodate accessories, for example the vacuum pump.