

THE NEW ERA OF CASTING TECHNOLOGY



The new VC series.
The new State of the Art in Precision & Productivity.



MADE IN GERMANY



INDUTHERM

Casting and Powder Production Systems

A HOFMANN  GROUP COMPANY

The NEW INDUTHERM VC Series Vacuum Pressure Casting Machines. The new State of the Art in Precision & Productivity.

Engineered from the ground up, the new VC series unites groundbreaking innovation with over 30 years of expertise in casting technology. Designed for maximum automation, it delivers outstanding process reliability, enhanced operator safety, and seamless integration into your digital production environment. Future-focused and performance-driven, the VC series sets new benchmarks and defines the next generation of casting technology.

High Level of Automation

- Exceptionally simple and efficient operation
- Precision Flow Control & Variable Overpressure System (Pat.) for high process stability and consistent quality

Maximum Comfort & Safety

- Automatic bell lock system, vacuum chamber opening via foot sensor
- Sensor driven diagnostic system
- Cyber safety according to EU Machinery Regulation (2023/1230)

Individualization & Process Management

- Production Data Matching:
Scan flask and material IDs to match them with your production ID
- High Connectivity:
Seamless integration with other machinery and production systems via OPC UA and Modbus TCP / via Standard Industrial Communication Protocols
- Advanced Casting Program Editor:
Customized process flows e.g. with integrated heating ramps for precise control
- Multilingual Multi-user Management
- Configuration Transfer:
Records all process parameters and user inputs, exportable via USB or digital communication

Performance & Flexibility

- Up to 1,600° C, HTC version up to 2,100° C
- Flasks up to ø130x300 mm h, optional up to ø160x400 mm h
- Different crucibles sizes
up to 10.5 kg Au 18k, up to 5 kg Pt (HTC version)
- Overpressure up to 3.0 bar
- Casting cycles down to under 3 minutes!



Visualized process flow



Individual setting of heating ramps



Precision Flow Control & Variable Overpressure System (Pat.)



Barcode Scanner



VC 700 V with feeder for automatic refill without the need to open the melting chamber



Premium Version VC 700 V with optional granulation tank

Essential Version VC 200

	VC 200 (V) Essential Version	VC 300 (V) Advanced Version	VC 700 V Premium Version
Performance			
Power max.	4.5 kW	8 kW	12 kW
Temperature max.	1300° C	1600° C	1700° C 2100° C *
Crucible volume	■ 0.17 l = 2.5 kg Au 18ct	■ 0.17 l = 2.5 kg Au 18ct ○ 0.25 l = 3.6 kg Au 18ct	■ 0.17 l = 2.5 kg Au 18ct ■ 0.25 l = 3.6 kg Au 18ct ○ 0.40 l = 5.8 kg Au 18ct / HTC: 5 kg Pt * ○ 0.70 l = 10.5 kg Au 18ct
Flask size up to	■ Ø130mm x 300mm height		■ Ø130mm x 300mm height ○ Ø160mm x 400mm height
Dual temperature measurement	-	○	■
Flask temperature measurement	-	-	○
Automatic sealing rod	-	-	■
Turbo Pressure / -PLUS	○ / ○	○ / ○	■ / ■
Variable Overpressure System / Precision Flow Control (Pat.Pend)	○ / -	○ / -	■ / ■
HSC (High Speed Casting)	■	■	■
Vibration / Sweep Mode Vibration	○ / -	○ / -	- / ■
Hands-Free Motorized Flask Chamber Operation	-	-	■
Barcode Scanner	-	-	○
Signal Light Bar	-	-	■
OPC/UA and Modbus TCP Connectivity / iCloud Access	○ / ○ / ○	○ / ○ / ○	○ / ○ / ■
Granulation Tank / Sinter Kit	○ / ○	○ / ○	○ / ○
Feeding System / with metal detection	○ / -	○ / -	○ / ○

■ = Standard equipment ○ = optional * = HTC version



30 Years of advanced Casting and Metal Powder Technology

INDUTHERM Erwärmungsanlagen GmbH supports you with comprehensive advice and first-class solutions in the field of casting technology as well as in the field of powder metallurgy.

- More than 30 years' experience in the development and production of casting machines
- More than 400 Indutherm systems installed per year in more than 100 countries
- Sales and service partners in more than 60 countries
- Participation in over 40 national and international research projects with renowned institutes and universities

The INDUTHERM Portfolio

- Vacuum Pressure Casting Machines with crucible volumes up to 25 l
- Tabletop Vacuum Pressure Casting Machines
- (Vacuum) Continuous Casting Machines
- Granulating Machines
- Melting and Tilting Casting Machines
- Metal Powder Production Systems



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