

## **INDUTHERM Vacuum-Tilting-Casting Machine VTC200V**



This advanced and very flexible tilting furnace is designed to melt and cast stainless steel, beryl-copper, platinum or similar alloys in a ceramic crucible and cast into flasks, ingot moulds or shell moulds. Together with a thermocouple and a crucible with graphite inlet it is possible to cast all standard metals in industrial use or for jewellery manufacturers.

The microprocessor controlled induction generator has power of 15 kW, possibility to reduce power for sensitive metal alloys. Low running frequency ensures a quick melting and a very strong metal mixing. Vibration technology ensures casting with excellent form filling, best metal density and top metal microstructure.

- Temperature: 2000°C, temperature read by a optical pyrometer (optional thermocouple)
- Crucible capacity: total 200 ccm, crucible with graphite inlet 105 ccm
- Flask's size and Ingot moulds up to maximum  $\varnothing 125 \times 220$  mm

### Major application

- Melting and casting of stainless steel, beryl-copper, platinum, palladium or similar alloys. Universal use also for other metals like gold, silver, bronze by thermocouple facility and graphite crucible
- Blank making by ingots, made out of beryl-copper
- For flasks  $\varnothing$ 125,  $\varnothing$ 100 or  $\varnothing$ 80 mm, maximum length 220 mm

### Important features

- Automatic running for repeatable results.
- Melting modes: under vacuum, standard atmosphere (inert gas protection) or inert gas overpressure.
- After casting: automatic overpressure routine
- Low frequency induction = excellent mixing of liquid metal
- Crucible capacity (ceramic) 1kg stainless steel, 2 kg platinum,
- Crucible capacity (graphit) 1.3 kg 18ctgold, 900 grams silver
- Vibration technology ensures casting with excellent form filling, best metal density and top metal microstructure.
- Induction generator with 15 kW heating power, direct controlling of power
- Temperature up to 2000°C, controlled by optical pyrometer
- 100 programs
- Digital display indicates full supply (gas, water) and complete status of machine at present
- Data printer for process controlling and service
- RS232 interface for remote service
- Included modem for service includes free connections for 2 years. After this period WE have to elongate the contract for another 2 years at a charge of € 180.

<b>Data:</b>	
Dimensions:	700 x 850 x 1500 mm (W*D*H)
Weight:	150 kg
Cooling water supply:	2.5 - 5 bar / 15 - 30°C / ca. 5l/min
Electrical connection:	3 * 400VAC / 32A, 50 or 60 Hz