

HiCAST

The smartest HF vacuum pressure casting machine

is completely different from previously known casting units. The melting of the alloy is based on a completely new concept.

The alloy is melted and cast directly in a part of the investment ring. Separate melting crucibles are a thing of the past! Metal casting rings, including the ring liners for controlling the expansion of the investment, are also no longer necessary. This makes divesting the cast really easy. As the specially made melting crucible is divested together with the casting ring, the demanding glazing of the melting crucible is also no longer necessary.

The casting process with HiCAST is simply quick:

- Take the hot investment ring from the preheating furnace and load immediately with the alloy that is to be cast.
- Place on the platform of the melting chamber lift.
- Press the start button.
- The ring goes upwards into the melting chamber.
- After closing, the vacuum is automatically created and the melting process begins.
- An increase of the preheating temperature is not necessary.
- Check the melt to determine the right time for casting.
- Press “casting” button. 6 bar of compressed air now presses the melt through a special casting channel system into the ring.
- The precision casting is ready! The lift goes down.



*Integrated water cooling,
casting without investment ring*

Due to this unique casting principle, the design of the HiCAST could be kept pleasantly small and compact.

The water cooling follows through a built-in tank, meaning that only an AC power outlet and a compressed air connection of 4 to 6 bar is necessary for the unit.

We'd be happy to send you the demo movie for the device on request.

HiCAST 90 HF vacuum pressure casting machine 7797 3 002 11,600.00 €

Technical data	
Voltage	220/230 V 50 Hz 3000 VA
Overvoltage protection	13 A
Pressurized/compressed air	4 to 6 bar
Safety valve compressed air	11 bar
Output power pump	0.6 l/min
Protection temperature of the cooling water	60 C°
Overheating protection of the coil	90 C°
Time protected (automatic melting stop)	4 min
Maximum number of casting procedures (then 1 hour break)	6

Technical data	
Power output – adjustable during melting procedure	max. 2.3 kW
Operating frequency of induction coil	110 to 150 kHz
Duration until vacuum is reached(80 kPa)	approx. 30 s
Melting time	30 - 120 s
Investment ring size	1/3/6/9/ model casting
Minimum alloy quantity	2 g
Maximum alloy quantity	90 g
Size of casting unit (H/W/D)	360 x 300 x 370 mm
Weight	approx. 20 kg
Water tank	approx. 4 l
Protection class	IP 30