

LUKACast S

One of the World's smallest Vacuum Casting Machines
small dimensions - high performance!



For all high and non-precious dental alloys



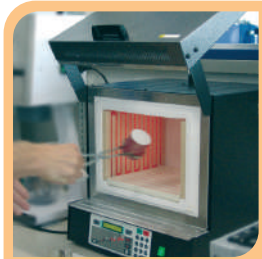
- Maximum casting temperatures up to 2.000 °C
- Thorough mixing of the metal by a new 3,5 kW induction generator
- Alloys can be melted under vacuum and casted with Argon
- Easy to operate - optional with temperature control (up to 1.600 °C)
- All muffle sizes from size 1 to 9 and scellet casting muffles can be used
- Homogeneity also with minimal wall thickness
- Ceramic crucibles also with graphite insertion, up to 150 gr. Au
- Error control check via GSM-modem

Only 27 kg!

In spite of its small dimensions the LUKACast S is equipped with numerous technical features ensuring constant high quality casting. The induction heating has been especially adjusted to dental alloys. It combines fast heating (up to 2.000 °C) with a thorough mixing of the metal by inductive bath movement even with small metal volumes. Melting can take place under vacuum or Argon (to reduce oxidation). After casting - by giving the complete casting unit a 90°-turn - overpressure will be supplied to optimise the fill.



Insert crucible with the material into the quartz glass tube inside the inductor. Push "Start" once to start the heating process.



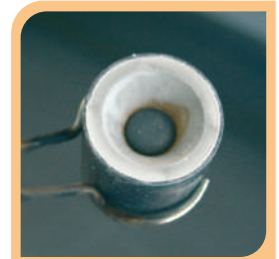
Pre-heat muffle according to investment-manufacturer's instructions. When temperature is reached, remove muffle...



... and insert in casting unit. Close lid. Push "Start" once again to start vacuum. Only a short time later the material is melted.



Give the complete casting unit a quarter turn to cast into the muffle. By using the viewing glass the casting process can be controlled. After casting, the unit automatically switches from vacuum to overpressure inside the casting chamber to optimise the casting result.



The casting process is complete!

Fast and easy casting

The casting works by giving the complete casting unit a 90°-turn. This design enabled us to keep the number of moving parts and required sealings at a low level and to realise this very attractive price. Fewer parts mean longer durability and better economic efficiency.

Can be used with all metals - also steel and non-precious alloys

Due to the 3,5 kW induction heating, melting takes place very fast and in an oxidation free environment. All metals can be casted without problems. The crucibles are big enough to process all common quantities of material in dental laboratories.

Of course also little quantities can be melted and casted - an important factor for the device's efficiency. This new automatic vacuum casting technique realises very good results with solid parts as well as with parts with a minimal wall thickness.

Easy to install

The installation of the LUKACast S is very easy. All you need is a 230 V bus bar and a water-connexion. Should there be no water-connexion in your laboratory we can supply you with an external water tank for cooling. So you are free to decide where to place the LUKACast S.

Due to the small dimension and weight servicing can be carried out fast and at low costs. Because the LUKACast S weighs only 27 kg it can be dispatched with all parcel services.

In addition to this servicing can be carried out via GSM-Modem.



Technical Data

Power/electr. connection	3,5 kW/230 V
Temperature max.	ca. 2.000 °C
Crucible volume	15 ccm/150 gr. Au 18 ct (liquid metal up to top level of the crucible)
Weight	27 kg
Miscellaneous	Digital display with power control, ceramic crucible with graphite insertion for all comon dental alloys, RS 232-port for servicing via GSM-modem, connection for vacuum, Argon and airpressure