



Manually crucible tilting device

RAUCH Gravity casting system for Magnesium and Aluminium alloys SGS

The common gravity casting process for aluminum and magnesium SGS has been further developed by RAUCH to give the customer more flexibility and quality.

It is possible to quickly adapt the casting process by using the universal melting- and casting equipment to the required quantities of aluminum and magnesium.

The casting systems are individually selectable, depending on the need of the casting process and the final product and may be chosen amongst the following possibilities:

- Conventional manual tilting for transfer of the melt into the casting mould
- Semi/fully automatic pump system with heated transfer launder for filling the sand mould or die

- Fully automated heated tilting with a universal melting tank for a reproducible and temperature-stable casting

The fully automatic casting system repeats the casting process automatically after learning the casting curves and corrects them according to the filling level of the crucible.

The RAUCH universal melting and holding furnaces cover a range from 25 to 700 kg Al or Mg melt by use of different crucible sizes.

The casting system can be extended with automatic transport systems for the dies and with various sensors to be recorded at a central control console.



Advantages

- Flexible production between aluminium and magnesium
- Low investment cost and space-saving installation with universal furnace system
- Flexible casting systems in accordance with the need for casting process
- Continuous heating up to the last casting process (nosuperheating needed)
- Variable sizes of crucible in one furnace housing
- High quality standard of the melting and casting process (certified in aerospace companies)

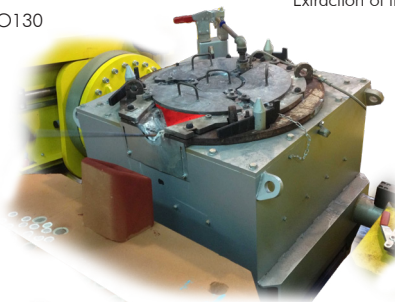
RAUCH universal melting and casting furnaces can be used even in combination with Aluminium and Magnesium low-pressure systems (NGS).



Magnesium laboratory furnace MLO130



Extraction of the crucible by crane



Universal crucible furnace UTO350/500