

Recycling aluminum chips



An essential feature of the induction crucible furnace is the molten bath movement or stirring action caused by electromagnetic forces, which is essential for the melting of fine aluminum scrap with low metal loss.

The induction furnace ensures high demands on melt quality in terms of purity, temperature and analysis accuracy. The technical and economic benefits of the OTTO JUNKER medium frequency induction crucible furnaces have led to a steadily

growing application in the foundry and semi-finished products industry. Their basic advantages lie in the direct input of heat into the metal, as well as in the selectively controlled bath movement and the metallurgically neutral melting regime.

With more than 100 installed induction melting units for aluminum, we are worldwide present and have many years of experience and innovative and unique technologies.



Video: Multi Frequency Technology - Best solution for melting chips

TECHNICAL FEATURES

- Temperature and process control exact
- High uniformity and analysis accuracy
- High melting rates due to high power density
- Reproducibility
- Use of modern circuit technology
- High operating flexibility, change of alloys
- Ability to handle a broad diversity of charge materials
- Targeted metallurgical melt management
- Simple furnace geometry - Facilitates cleaning of the refractory lining