



CUNOVA

FORMERLY KME
SPECIAL PRODUCTS
& SOLUTIONS



Advanced Crucible Technology



MELTING & CASTING
TECHNOLOGIES

The Company

cunova offers a unique combination of know-how and experience in all key technologies for the production of high-performance moulds for casting ferrous alloys.

cunova's corporate goal is to develop and manufacture products that meet customer demands, finding solutions for their specific applications, and providing services as a long-term partner. cunova's strategy for accomplishing this goal is based on a highly skilled and experienced workforce. cunova has the ability to invent and develop new materials and innovative production processes via ongoing advancement and training of our employees and the continual improvement of its organisational structures.



AMT® ADVANCED MOULD TECHNOLOGY

Advanced Crucible Technology

Challenge

- Improve ingot quality
- Increase lifetime for crucibles and base plates
- Reduce distortion
- Reduce mechanical damage

Solution

Seamless forged crucible with

- More homogenous grain structure and material
- High mechanical precision
- Excellent material properties
- High degree of thermal conductivity
- Good mechanical strength
- High softening / recrystallisation temperature

The performance of the copper crucible and base plate is one item which plays a decisive role in increasing the productivity and performance of the furnace. The key to this performance improvement of the copper crucible, is selecting an alloy with the right combination of mechanical properties. The material must be precisely tailored to the application. Seamless forged crucibles made of Elbrodur® G (CuCrZr) are a new

Application

For all ESR and VAR furnaces remelting nickel-based alloys, highly alloyed steels, titanium, molybdenum and other high-fusion materials.

Advantages

High performance seamless crucibles and base plates from special copper alloys lead to increased lifetimes. Furthermore an improved ingot quality.

economical alternative to conventional copper (DHP-Cu or Cu-HCP) crucibles. The basic (longitudinally welded) construction and standard copper alloy has remained unchanged ever since this technology was introduced. Seamless forged crucibles and base plates made of Elbrodur® G in regular use have shown dramatic improvements in performance over conventional crucibles.





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