



SERVICE METAL COMPANY SRL

HIGH PERFORMANCE COPPER ALLOYS

applications

PLUNGERS : Aluminium die-casting.

The use of the alloys HOVADUR® CuCoNiBe eh and CuNiSiCr are absolutely recommended in plungers manufacturing for the injection of light metals (aluminium, magnesium and their alloys) either in the traditional model or in the new advanced type of our exclusive engineering 'Adapter System®'.

We can supply rough and pre-machined bars or finished parts.



Traditional plungers



Plungers 'Adapter-System®'



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Moulds : gravity brass casting.

HOVADUR® CuCoNiBe eh, CuNiBe spezial, CuNiSiCr, alloys are indispensable in foundry production due to their excellent thermal conductivity. SCHMELZMETALL's advanced manufacturing process provides greater resistance to fire cracking in all of its alloys and it allows for the most efficient cooling cycles available.



Gravity casting mould



Low pressure casting mould



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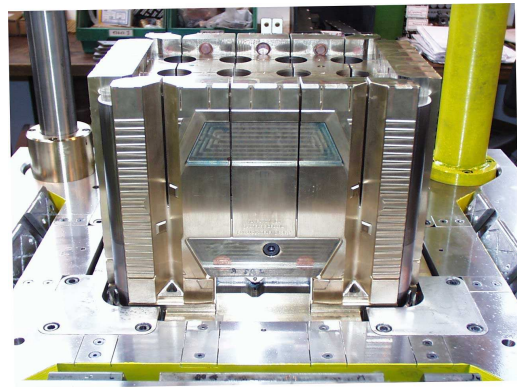
applications

Moulds : for plastics cooling inserts.

HOVADUR® K alloys provide an up to ten fold increase in thermal conductivity against other mould materials. This ensures the customer shorter work cycles, higher quality, and longer lasting moulds. Each alloy is certified for the manufacture of pressing tools in the field of the production of foodstuffs and medicinal pills.



Six cavities mould for caps



Bottle crate mould



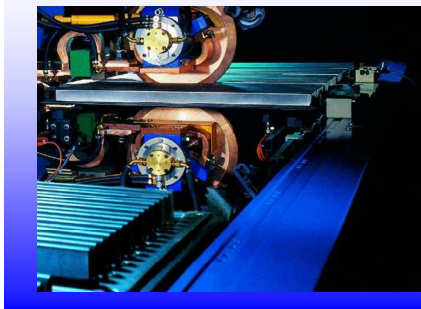
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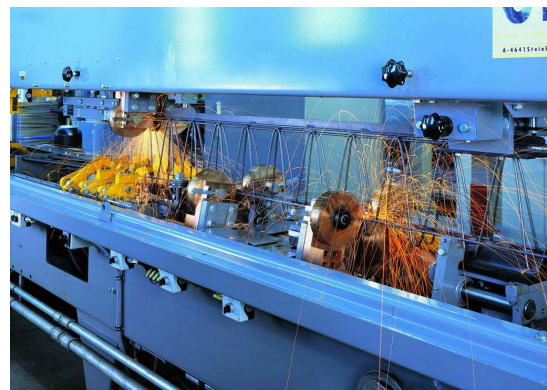
applications

Electrodes, electrode holders, discs and rings : resistance welding.

The excellent electrical conductivity of the alloys HOVADUR® CuCoNiBe eh, CuNiBe spezial, CuCrZr, CuBe2 combined with the specific alloy's maximum hardness produces optimal welding conditions and high resistance to wear. Due to our processes our alloys are applied in a wide range of resistance welding techniques such as seam, spot and cross-wire welding.



Roll seam welding



Spot welding