

## APPLICATIONS

Continuous casting of rod and hollow bars in following non-ferrous alloys:

Alloy Family	Elements	Description
<b>Copper</b>	CuP	Phosphorus copper (typ. up to 450 ppm)
	CuOF	Oxygen-free copper
<b>Conductor Alloys</b>	CuAg	Silver bearing, oxygen-free - copper silver
	CuCd	Copper cadmium – high copper alloy
	CuSn	Tin bearing, oxygen-free – copper tin
	CuMg	Copper magnesium – high copper alloy
	CuMgPSn	Copper, magnesium, phosphorus, tin
<b>Progressive Alloys</b>	CuCr	Copper chrome
	CuZr	Copper zirconium
	CuCrZr	Copper chrome zirconium
	CuFe	Copper iron
	CuFeTiMg	Copper iron titanium magnesium
	CuMn	Copper manganese
<b>Brasses &amp; Bronzes</b>	CuZn	Copper zinc - Brass, 5% to 40% zinc
	CuZnNi	Copper zinc nickel
	CuZnAlSnAs	Copper zinc aluminium tin arsenic – special brasses
	CuZnMnAl	Copper zinc manganese aluminium – high tensile brass
	CuZnPb	Copper zinc lead – leaded brass
	CuAlFe	Copper aluminium iron – 5 – 10% aluminium bronze
	CuAlMnNi	Copper aluminium Manganese Nickel
	CuSnP	Copper tin phosphorus – phosphor bronze – copper tin alloy

Alloy Family	Elements	Description
<b>Brazing Alloy</b>	CuMnAlFe	Copper manganese aluminium iron
	CuMnNi	Copper manganese nickel
	CuMnNiAl	Copper manganese nickel aluminium
	CuMnNiAlZnPbFeSn	Copper manganese nickel aluminium zinc lead iron tin
	CuNiZn	Copper nickel zinc – nickel silver, 10 – 18% nickel
	CuPAg	Copper phosphorus silver – braze filler metal
	CuSi	Copper silicon – high copper alloy
	CuSnPbP	Copper tin lead phosphorus – copper tin lead alloy
	CuSnZnPb	Copper tin zinc lead – gunmetal
	<b>Soldering Materials</b>	SnAg
SnAgBiCuNi		Tin silver bismuth copper nickel
SnAgCu		Tin silver copper
SnAgSb		Tin silver antimony
PbSn		Lead tin, lead 1 – 63% tin
<b>Precious Metals</b>	Ag	Pure silver
	Ag, Au, Pt, Pl	Silver, gold, platinum, palladium – dental alloys
	AgCd	Silver cadmium
	AgCu	Silver copper – sterling to coin silver
	AgCuNi	Silver copper nickel
	AgCuZn	Silver copper zinc – silver brazing alloy
	AgCuZnMnNi	Silver copper zinc manganese nickel – silver brazing alloy
	AgCuZnNi	Silver copper zinc nickel – silver brazing alloy
	Au	Pure gold
	Au various	Gold & refiners - gold bonding wire
AuAgCu	Gold silver copper – 9 to 22 carat gold	

Alloy Family	Elements	Description
<b>Non-Copper Materials</b>	Mg	Magnesium
	NiCr	Nickel chrome
	Pb	Lead
	PbSb	Lead antimony
	Zn	Pure zinc
	ZnAl	Zinc alloy
	CoCrMoSi	Cobalt chrome molybdenum silicon

- The above list is indicative only of the more common pure metals and alloys which may be continuously cast on Rautomead machines.
- Other pure metal and copper alloys may be successfully produced. Please consult the company for technical advice.
- Casting characteristics of alloys differ according to the material. This influences sections and sizes, which may be cast, casting speed, and casting die life.
- Certain elements carry specific health and safety risks. Check with the company.
- Certain alloys may be subject to patent protection.