

APPLICATIONS

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

Alloy Family	Elements	Description
Copper	CuP	Phosphorus, copper (typ. up to 450 ppm)
	CuOF	Oxygen-free copper
Conductor Alloys	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
Progressive Alloys	CuCr	Copper, chrome
	CuZr	Copper, zirconium
	CuCrZr	Copper, chrome, zirconium
	CuCrZrP	Copper, chrome, zirconium, phosphorus
	CuFe	Copper, iron
	CuFeTiMg	Copper, iron, titanium, magnesium
	CuMn	Copper, manganese
	CuMnNi	Copper, manganese, nickel
	CuSP	Copper, sulphur, phosphorus
	CuNiSP	Copper, nickel, sulphur, phosphorus
	CuTi	Copper, titanium
Brasses & Bronzes	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
	CuAlZnMg	Copper, aluminium, zinc, magnesium
	CuZnP	Copper, zinc, phosphorus
Brazing Alloy	CuMnAlFe	Copper, manganese, aluminium, iron
	CuMnNi	Copper, manganese, nickel
	CuMnNiAl	Copper, manganese, nickel, aluminium
	CuMnNiAlZnPb FeSn	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 CuSnZnPb	Copper, tin, lead, phosphorus – copper tin lead alloy
Soldering Materials	SnAg	Tin, silver
	SnAgBiCuNi	Tin, silver, bismuth, copper, nickel
	SnAgCu	Tin, silver, copper
	SnAgSb	Tin, silver, antimony
	PbSn	Lead, tin: lead 1 – 63% tin
	SnSb	Tin, antimony

APPLICATIONS (cont'd)

Alloy Family	Elements	Description
Precious Metals	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
Non-Copper Materials	Mg	Magnesium
	NiCr	Nickel, chrome
	Pb	Lead
	PbSb	Lead, antimony
	Zn	Pure zinc
	ZnAl	Zinc, aluminium
	CoCrMoSi	Cobalt, chrome, molybdenum, silicon
	FeMnSiC	Iron, manganese, silicon, carbon
	ZnTi	Zinc, titanium
	ZnTiAl	Zinc, titanium, aluminium
	ZnCuTi	Zinc, copper, titanium
ZnAlCu	Zinc, aluminium, copper	

- 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.