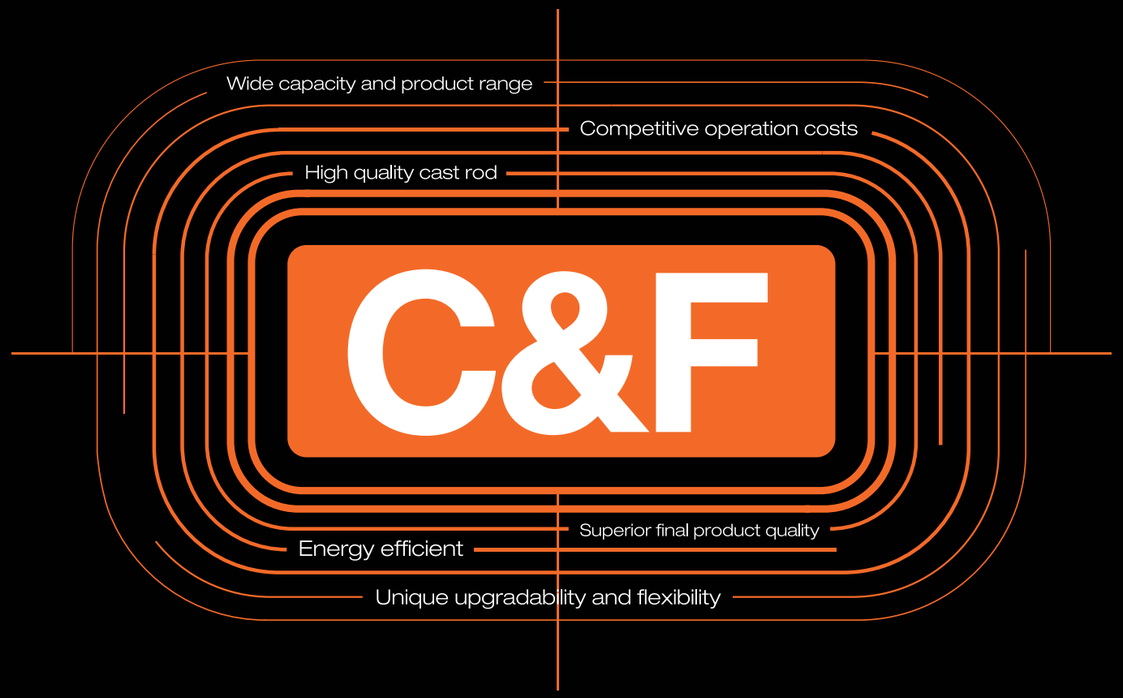
Upward **Casting** – Continuous **Extrusion** – **FINISHING**

Cast&Form

UPCAST OY / ASMAG GMBH

asmag group



The perfect match where **1 + 1** results in more than **2**

Cast&Form
cost-efficiency at its utmost best

The original UPCAST® continuous casting technology allows you to cast top quality copper and copper alloy rod the most cost efficient way. It is a simple process with easy operation through an advanced control system.

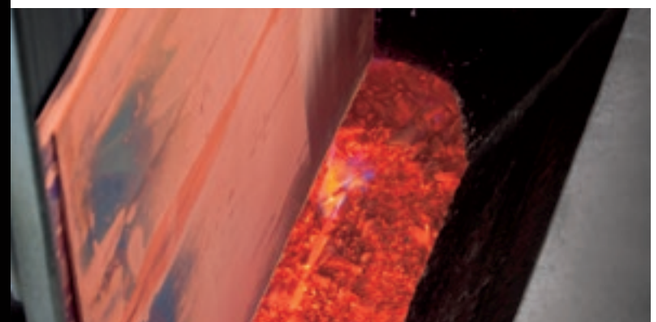
There is a wide range of copper alloys that can be cast with UPCAST®. As new applications for these alloys are being developed, the utilization of UPCAST® technology within this field is also rapidly increasing.

Solutions for small and medium capacities
UPCAST® rod production lines are of modular design. A wide capacity range both in single- and double furnace configurations is available with unique upgradeability. You can cast different rod sizes even simultaneously and easily adjust your output and product mix according to market demands.

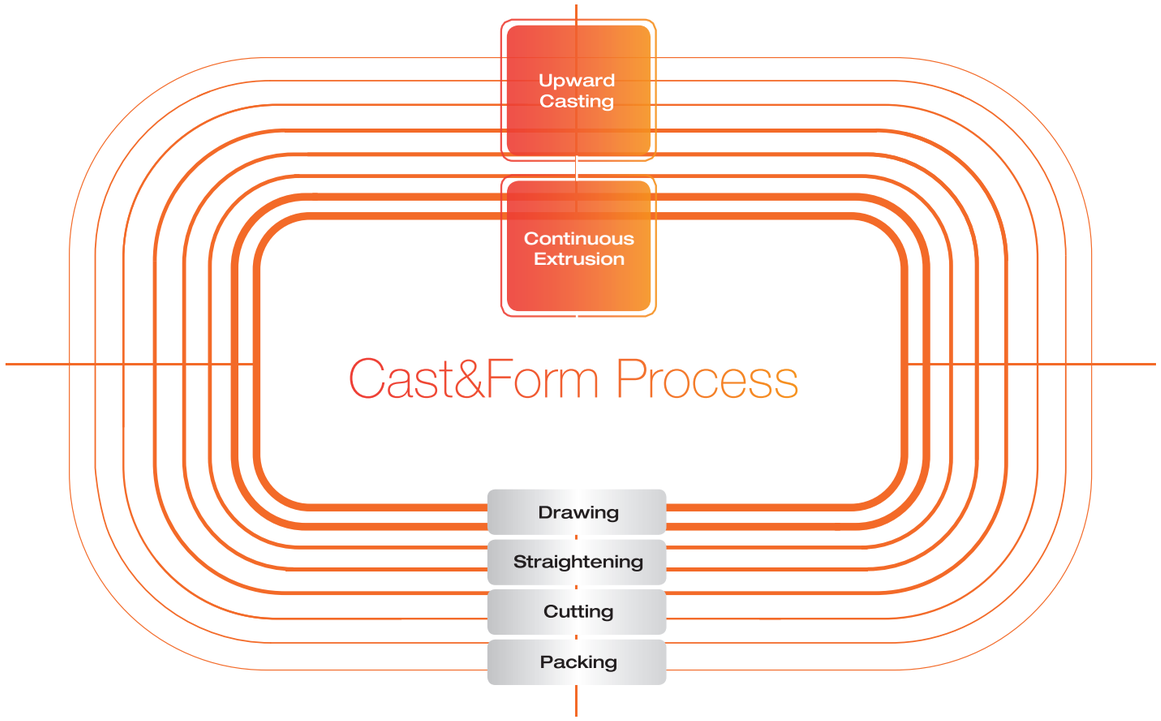
ASMAG GmbH - serving both the tube and bar industry for decades
The core of the ASMAG group has designed and produced high performance machinery for the steel tube and non-ferrous metals industries since 1984. ASMAG has evolved from a machine supplier to a complete provider of production solutions. Combining the new ASCON technology and many years of experience in drawing and finishing of non-ferrous metals ASMAG now also covers the entire process for the production of copper and copper alloy flats, busbars as well as open, solid and hollow profiles all the way from the rod to packaging of the finished products.

Whether it is planning of the plants or building the machinery, ASMAG´s emphasis is on smooth material flow, high automation level and economical operation allowing for low production costs. This is based on efficient engineering and excellent production quality with personal attention and support.

The partnership of UPCAST Oy and ASMAG GmbH based on years of technical cooperation has resulted in the Cast&Form process for manufacturing high quality copper profiles, flats and busbars. By combining their experience and expertise the partners can offer very efficient process and clear cost savings to the Cu-product manufacturers.



UCT | UPCAST®



ASMAG
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C&F profiles and busbars are produced in distinct phases:

- **UPCAST® upward casting of high quality Cu-OF rod**
- **ASCON continuous rotary extrusion**
- **Finishing**
  - Drawing
  - Stretch-straightening
  - Cutting
  - Stacking, weighing and packing

UPCAST® continuous casting lines are mainly for Cu-OF rod with the most common diameters from 8 mm to 25 mm - smaller ones for wires and cables and the bigger ones for manufacturing a variety of Cu-products e.g. profiles, busbars, trolley wires, electroplating anodes etc.

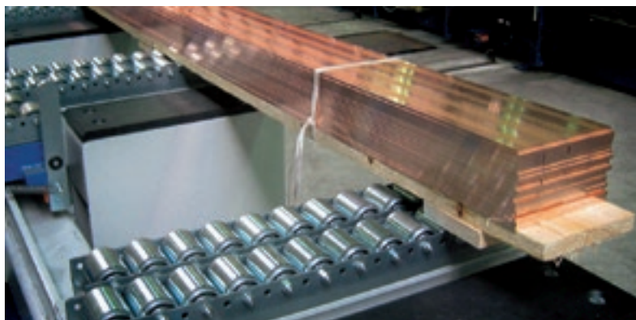
The high quality UPCAST® Cu-OF rod is ideal for all electrical applications and has become the preferred feedstock especially for continuous rotary extrusion like ASCON.

ASMAG has developed the revolutionary ASCON machine transforming the raw material into a malleable state through friction, in which the material finally flows through an extrusion die matching the material shape of the finished product. Due to the simple and rapid set-up process when changing dimensions, different dimensions can be economically produced. The drawing is used to achieve the material strength and tolerances according to relevant standards.

The ASMAG drawing and stretching machine performs the complete finishing process extremely cost-effectively on one machine from drawing through straightening and cutting to finished lengths to stacking, weighing and packing. The entire system is easily accessible and easy to operate from one side from the feeding in of the product to its removal. The production time is reduced as all the process steps are combined and automated in one line.

C&F-process is reliable and easy to manage

The compact Cast & Form process will reduce the investment costs and provides the customers with a very reliable full process with low operational costs. The continuous process guarantees a high quality and a uniform product and innovative details support the smooth operation. The absence of harmful emissions and need for waste treatment as well as energy saving system reduce remarkably the environmental footprint of the process. All this comes with excellent after sales customer support.



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