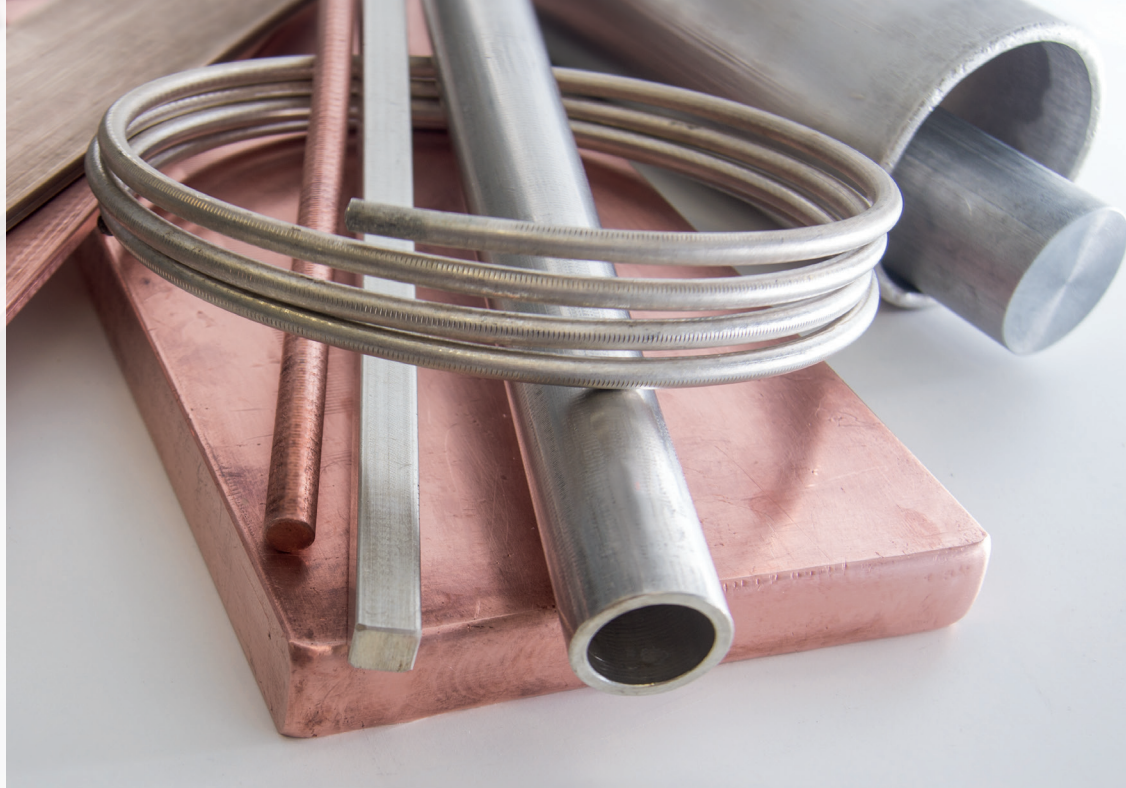


The Continuous Casting Machines – the only ones with vacuum and quattro drive

These machines are designed...

- For fast and flexible production of semi-finished material
- For use in every metalworking industry
- As multiple use instruments especially for the production of rings

ROMANOFF
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More flexibility, lower costs

Indutherm continuous casting machines help you to save production costs. With only one machine, you can produce your own alloys or semi-finished products in different shapes and sizes in the shortest time, for example:

- wires or bars in every diameter you need, up to \varnothing 85 mm (CC 1000/3000)
- sheets and strips, e.g. ring production, for stamping and pressing
- tubes, perfect as basic material for cutting in sections for wedding ring production
- granulates

As the desired parts and alloys can be produced within minutes, you can reduce your investment for material in storage. Your processes will get faster, more flexible and more efficient. With optionally available equipment as for example sintering set for diffusion bonding and granulation tank the versatility of these machines may be enhanced even more.

The CC/VCC generation 2015: improved for even higher quality

The new CC/VCC machines are equipped with and highly efficient induction generators. Thanks to a control panel with full text LCD display, all parameters are very easy and convenient to set (100 casting programs).

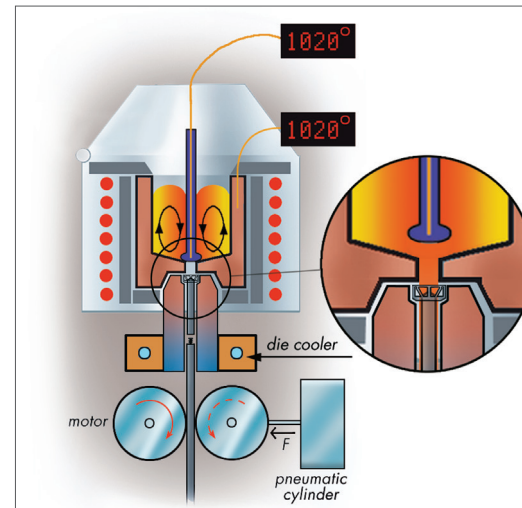
To reduce the risk of oxidation during melting and during drawing, the machines are equipped with inert gas function, vacuum system for the melting chamber (VCC), optical die temperature measurement, die cooler with inert gas flushing and additional secondary cooling system. All these measures are ideal especially for alloys containing copper such as red gold or for silver as these materials tend to oxidise easily.



Degasification under a vacuum results in a substantially improved – because of the absence of oxidation – semi-finished product.

Optional quattro drive system

The optional drawing unit with four instead of two motor driven feed rolls produce smoother tubes and sheeting with reduced marks of transportation. This system is available now for each CC or VCC machine.





picture: VCC 400 with optional Quattro Drive

**CC 400
VCC 400**



picture: VCC 1000 with Dual Drive

**CC 1000
VCC 1000**



picture: CC 3000 with optional Quattro Drive

**CC 3000
VCC 3000**

Performance			
Power max. / Electrical Connection	15 kW 3x400V / 3x208V	25 kW 3x400V	15 kW 3x400V
Temperature Max.	1500°C	1500°C	1500°C
Capacity			
Crucible Volume	285 ccm = 4.2 kg Au 18 ct*	1,500 ccm = 22 kg Au 18 ct*	3,400 ccm = 51 kg Au 18 ct*
	400 ccm = 6.0 kg Au 18 ct*		
	700 ccm = 10.0 kg Au 18 ct*		
Wire / Tube Production Up To	ø 15 mm / ■ ø 45 mm	ø 30 mm / ■ ø 85 mm	ø 40 mm** / ■ ø 85 mm**
Sheet Production	50 x 8 mm / ○ 60 x 8 mm	100 x 10 mm	130 x 12 mm
Handling + Control			
100 Programs	By LCD-Display, Full Text Readout	By LCD-Display, Full Text Readout	By LCD-Display, Full Text Readout
Vacuum / Inert Gas Overpressure	CC 400 / ■ VCC 400	CC 1000 / ■ VCC 1000	CC 3000 / ■ VCC 3000
Neutral Inert Gas Atmosphere	■	■	■
Optical Die Temperature Measurement	■	■	■
Die Coller with Protective Gas Flushing	■	■	■
Die Coller with Protective	■	■	■
Secondary Cooler	■	■	■
End Bar Sensor			
Quality Management			
RS 232 Interface, Diagnostic System	■	■	■
Data Printer	■	■	■
GSM-Modern for Remote Service	■	■	■
Accessories			
Quattro-Drawing Unit	○	○	○
Center Alignment	○	○	○
Sintering Kit	○	--	--
Granulation Tank	○	○	○
Bending-Unit	○	○	
Simultaneous Casting of Several Wires	--	○ 3 Wires*	○ 5 Wires*
Coiling Equipment	--	○	○
■ = standard equipment ○ = optional	*Liquid metal up to top level of the crucible	**Standard Sizes - Special dimensions or profiles for watch cases etc. on demand	*** Not in combination with Quattro Drive