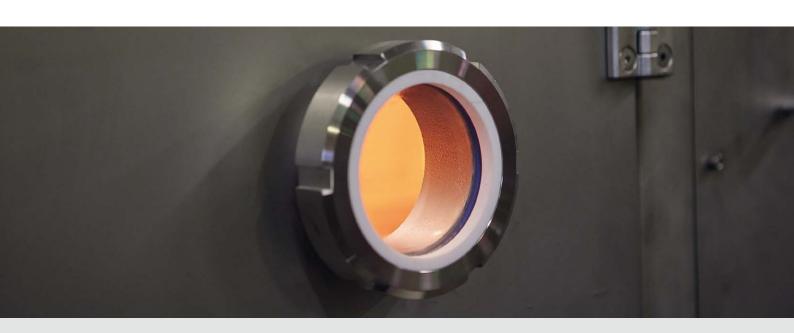


# AUTOMATED GOOD DELIVERY BARS CASTING PLANT







IKOI, always leading technological innovation in precious metals processes, is proud to introduce the FCC® FLAMELESS CASTING CHAMBER® system, the state of the art technology for Good Delivery casting. FCC® is the evolution of our long-time know-how in casting technology. Thanks to the experience of more than one-hundred flameless tunnel furnaces installations, IKOI delevoped a revolutionary system specifically designed for Good Delivery bars: FCC® Flameless Casting Chamber.

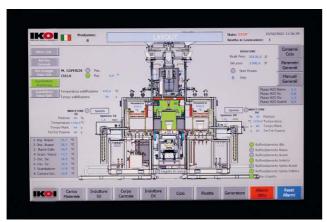
FCC® represents an unprecedented technological leap offering our customers higher productivity, improved safety and high sustainability.



## **FEATURES AND BENEFITS:**

- 1. FULLY AUTOMATED
- 2. SUITABLE TO WORK WITH CRYSTALS OR GRAINS
- 3. SAFE AND EASY TO OPERATE
- 4. HIGH PRODUCTIVITY
- 5. NO OPEN FLAMES
- 6. REDUCED FOOTPRINT
- 7. CONSISTENT QUALITY
- 8. COMPLIANCE WITH INDUSTRY 4.0











### ACCURATE WEIGHING AND ADVANCED AUTOMATION:

Feedstock (grains and crystals) is automatically loaded into the system, weighed and transfered into the graphite moulds. All the production steps, including melting, solidification, loading and unloading are automated for an efficient process.





## **ENERGY EFFICIENCY:**

The machine operates with reduced heating cycles in order to unload the bars immediately after solidification and keeping moulds at high temperature, proceed with the next cycle, loading of next batch, ensuring that energy is conserved throughout the process.

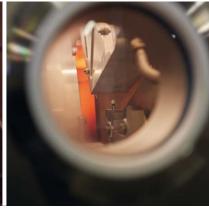


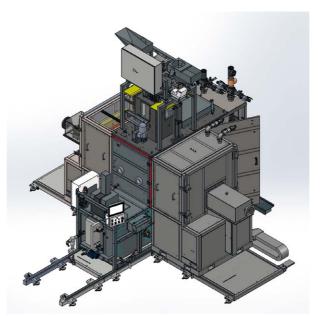


# FLAMELESS TECHNOLOGY:

FCC® is based on IKOI Flameless technology maintaining all the benefits of a Flameless Tunnel in terms of surface quality, metallurgical process, reliability and safety.







**Dosing and weighing:** automatic dosing of chrystals and grains into the melting mould.

**Melting sections:** double induction system with two melting chambers for increasing productivity.

**Solidification and unloading zone:** accurate solidification with watercooled copperplate and automatic loading and unloading of gold and silver products.

Water tank: quenching water tank to cool down the bars and automatically place them in the unloading area.



Power supply	400VAC – 3 phases – 50/60 Hz
Installed power	~220 KW
Treatable metal	Silver (Ag) 999 / Gold (Au) 9999
Bars sizes produced	1000 Oz Ag Good Delivery bars 400 Oz Au Good Delivery bars 15Kg Ag SGE
Maximum productivity 1000 Oz Ag LBMA Good Delivery bars 400 Oz Au LBMA Good Delivery bars 15 Kg Au SGE bars	6 bars/h 8 bars/h 8 bars/h
Working temperature	~1250°C
Dimensions (L x W x H) (mm) Machine Control cabinet	4900x4700x3950 2000 x 800 x 2100
Weight (Kg) Machine Control cabinet	5740 716
Heating technology	Induction
Weighing accuracy (g)	+/- 50

# IKOI S.p.A.

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**IKOI** is the leader in the pyrometallurgical processes for the precious metals refineries, mints and jewellery market, thanks to our technology for vacuum distillation, melting & casting, heat treatments and crystallization.

Our Vision is to create a Safe, Efficient and Green way to Process Precious Metals and our Mission is to bring Innovative and Sustainable Technology to Precious Metal Industry.

With more than 300 plants installed in more than 50 countries, we are a reference point for the industry.