

LOGIC



 HORIZONTAL CONTINUOUS CASTING INDUCTION FURNACES



LOGIC 110
LOGIC 150



LOGIC 70





The horizontal continuous casting furnace **LOGIC**, with induction heating system, has been conceived to produce wires, plates, tubes and customized special sections.

It is used for semi-finished products in precious alloys, in the mint industry, in the watch industry, in the dental industry and in the jewellery manufacturing in general.

The alloys normally used are:

- Fine gold **AU 999.9**
- Fine silver **AG 999.9**
- Alloys of gold-silver and copper and other
- Silver alloys in **AG 925 - AG 800 - AG 500**
- Alloys for the watch industry
- Alloys in gold-palladium and dental alloys
- Soldering alloys in silver-copper, silver-zinc-copper and other.

ADVANTAGES

- Crucible and die heated by two generators and two inductors, with independent regulation of power and temperature
- Maximum safety thanks to the horizontal withdrawal of the material
- High working speed thanks to the special cooling system of the die
- Homogeneity of the metal structure thanks to the secondary cooling system by direct water contact on the profile.
- High quality standard thanks to the powerful pulling system
- Certainty of maintaining the plant in good condition thanks to the self-diagnosing system and possible alarms with buzzer
- Possibility of placing in complete safety the pre-melting unit for a controlled casting into the holding crucible.
- Protection of the melting chamber by aluminum casing easily and quickly removable to change the consumables.
- Crucible, die and thermocouples quick change for short set-up time.
- Pulling system with four rollers, stepper motor, closing and opening of the rollers with pneumatic control.
- Silent working plant.
- Control of the working parameters by **PLC** and **touch screen** video, self-diagnosing and possible alarms with buzzer.
- **LOGIC: the hallmark for casting**

MODEL	LOGIC 70	LOGIC 110	LOGIC 150
CRUCIBLE HEATING POWER	12 kW	25 kW	40 kW
DIE HEATING POWER	4 kW	7 kW	10 kW
CRUCIBLE CAPACITY	940 cm ³	2250 cm ³	5300 cm ³
	15 Kg - Au/999 12 Kg - Au/750 8 Kg - Ag/925	30 Kg - Au/999 24 Kg - Au/750 16 Kg - Ag/925	75 Kg - Au/999 60 Kg - Au/750 40 Kg - Ag/925
MAXIMUM TEMPERATURE	1250° C	1250° C	1250° C
ON REQUEST, MAXIMUM TEMPERATURE	1500° C	1500° C	1500° C
SPEED OF THE FOUR-ROLLER PULLING UNIT	Min. 10 mm/min Max 999 mm/min	Min. 10 mm/min Max 999 mm/min	Min. 10 mm/min Max 999 mm/min
NUMBER OF WORKING DATASHEETS TO SAVE	100	100	100
FEEDING VOLTAGE	230/400 V 50/60 Hz 3 ph	230/400 V 50/60 Hz 3 ph	230/400 V 50/60 Hz 3 ph
1 WIRE DIAMETER	Min. 5 mm Max 25 mm	Min. 5 mm Max 15 mm	Min. 5 mm Max 20 mm
2 WIRES DIAMETER	Min. 5 mm Max 10 mm	Min. 5 mm Max 12 mm	Min. 5 mm Max 16 mm
3 WIRES DIAMETER	Min. 5 mm Max 8 mm	Min. 5 mm Max 10 mm	Min. 5 mm Max 14 mm
4 WIRES DIAMETER		Min. 5 mm Max 10 mm	Min. 5 mm Max 12 mm
6 WIRES DIAMETER			Min. 5 mm Max 10 mm
PLATE SIZE (WIDTH BY THICKNESS)	Max 70x8 mm	Max 110x20 mm	Max 150x25 mm
TUBE SIZE (OUTER DIAMETER BY THICKNESS)	Min. 8x1.5 mm Max 30x5 mm	Min. 10x1.5 mm Max 30x5 mm	Min. 12x1.5 mm Max 35x5 mm
FURNACE DIMENSIONS	188x85x120 h cm	233x130x137 h cm	233x130x137 h cm
ELECTRIC BOX DIMENSIONS	60x58x140 h cm	80x58x140 h cm	80x58x140 h cm
FURNACE WEIGHT	500 Kg	950 Kg	1100 Kg
ELECTRIC BOX WEIGHT	86 Kg	98 Kg	109 Kg

All datas are not binding and may be changed in every moment by G.B. F.LLI BERTONCELLO SRL without notice to improve the product