

IKOI BRINGS TO YOU THE ITALIAN TECHNOLOGY AS YOU HAVE NEVER SEEN IT BEFORE.

What makes a successful company? Innovative technologies, talented and experienced personnel, and determined management. From its beginning, IKOI has followed 8 principles, which together form our business ethos:

1. Thanks to all our clients, we made history.

IKOI has specialized in the production of equipments for the precious metals treatments. We have been influenced by the best Italian traditions to manufacture high-tech and high quality products.

2. Products tailor made for our clients.

We produce traditional and specialized equipments for heat treatment of precious metals that can satisfy the needs of a wide range of enterprises.

3. You can count on our flexibility and dynamism.

IKOI develops its equipment according to the industrial market's requests. Your needs are important to us.

4. Keeps on innovating with you.

Today in **IKOI** there is our own Scientific Research Centre, where some of the best specialists in the precious metal field are working. We use the latest computerized systems and practices to ensure the best metal protection throughout the working process. We produce equipment that is at the forefront of innovation, which gives our customers competitive advantages in an ever changing market.

5. You can rely on us at all time.

We have different CRM programs. Our trading policy is based on principles of building long, lasting, trustful partnerships. Our main principles in working with our customers are, "WE CAN DO IT" and "EVERYTHING YOU NEED". It's our service

attitude! Today we are working with many different customers around the globe. We understand the needs of each client may be different, and for that reason we always use an individual way, which our customers may see in our flexible trade policy.

6. You can trust our leading technology.

Our equipment is present in many of the largest and most important mints and refineries all over the world.

7. You will always receive a warm welcome from us.

Today IKOI has a very large sales network. Every area of the world (Europe, Russia, Americas, Middle East, Asia, Oceania) has its own sales and customer managers. This helps us working with our customers faster and always face-to-face.

8. Exclusively for you.

Now we have a great goal to become the largest worldwide company in this industrial segment.

All these 8 principles are the foundation of our business. We have enjoyed a good past and a successful present, and we look forward to working with our customers on for a better future. Join us!



CASTING GRAIN MACHINES*

MACHINES



* We are able to create any format of graining machine to our customers' requirements



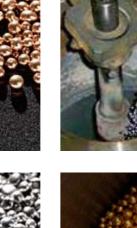
TECHNICAL DATA

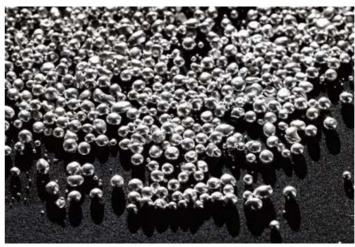
	Z55_310	Z55_315	Z55_335	
Melting Electrical power	11 kW	15 kW	38 kW	
Crucible capacity (Au 999 kT)	10 Kg	15 Kg	40 Kg	
Maximum operation temperature	1250°C	1250°C	1250°C	
Machine dimensions (WxDxH)	750x1300x1650 mm	750x1350x1650 mm	2000x1100x1830 mm	
Under request crucible in silicon carbide with ceramic iacket	Yes	Yes	Yes	

The standard temperature of the machines is of 1250°C and under request of 1400°C The Electrical power supply is 230/400V 50/60 Hz 3phase





















CONTINUOUS CASTING FURNACES

CONTINUOUS CASTING FURNACES



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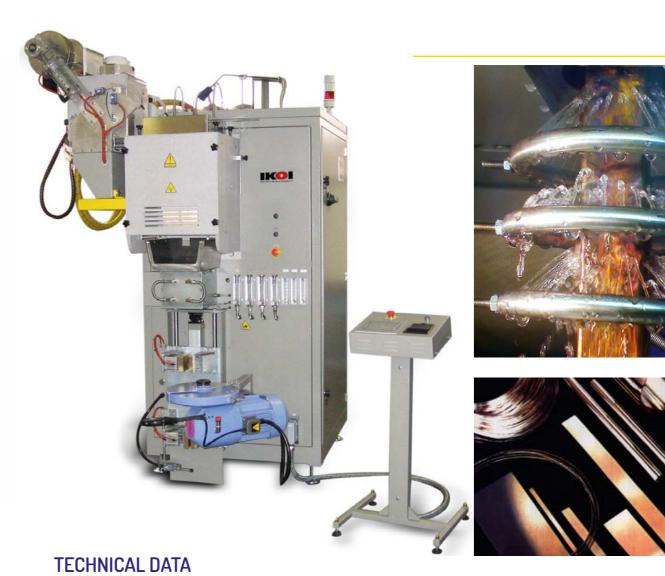


TECHNICAL DATA

	Z50_303 Z50_305		Z50_310
Electrical power	3,5 kW	5,5 kW	11 kW
Crucible capacity	3,0 Kg Au 999 2,4 Kg Au 750 1,6 Kg Ag 925	5,0 Kg Au 999 4,0 Kg Au 750 2,7 Kg Ag 925	10,0 Kg Au 999 9,0 Kg Au 750 6,0 Kg Ag 925
Sections	** Wire min. Ø 6 mm Max. 2 wires of Ø 10 mm Plate max 35x6 mm	** Wire min. Ø 6 mm Max. 2 wires of Ø 10 mm Plate max 50x8 mm	** Wire min. Ø 6 mm Max. 3 wires of Ø 10 mm Plate max 70x10 mm Tube Ø min 12x1,5 mm Ø Max 50 mm
Machine dimensions (WxDxH)	680x800x650 mm	680x800x650 mm	650x860x1700 mm
Weight	106 Kg	150 Kg	270 Kg

The standard temperature of the machines is 1200°C and on request 1400°C. The Electrical power supply is 230/400V 50/60 Hz 3phase ** Machine with the possibility to have withouth bench. The bench is an optional

Data here above are not binding and may be changed during the engineering and construction phase of the machines.



	Z50_315Au	Z50_315Ag	Z50_352
Electrical power	16 kW	16 kW	55 kW
Crucible capacity	15,0 Kg Au 999 12,4 Kg Au 750	15,0 Kg Ag 925	DOUBLE INDUCTOR
Sections	Wire min. Ø 6 mm Max. 4 wire of Ø 10 mm Plate max 70x10 mm Tube Ø min 12x1,5 mm Ø Max 60 mm	Wire min. Ø 6 mm Max. 4 wire of Ø 10 mm Plate max 80x10 mm Tube Ø min 12x1,5 mm Ø Max 60 mm	Wire min. Ø 6 mm Max. 4 wire of Ø 10 mm Plate max 70x10 mm Max 60x40 mm Tube Ø min 12x1,5 mm Ø Max 60 mm
Machine dimensions (WxDxH)	1400x1100x2200 mm	1400x1100x2200 mm	1050x1500x2200 mm
Weight	650 Kg	650 Kg	1121 Kg

The standard temperature of the machines is 1200° C and on request 1400° C The Electrical power supply is 230/400V 50/60 Hz 3phase



STATIC ANNEALING FURNACES

STATIC ANNEALING FURNACES



TECHNICAL DATA				
	Z05_05	Z05_15	Z05_22	Z05_25
Furnace Electrical power	15 kW	24 kW	12 kW	18 kW
Dissociator Electrical power	3 kW	6 kW	3 kW	4 kW
Chamber dimensions (WxDxH)	300x905x140 mm	400x1160x240 mm	220x905x140 mm	400x970x200 mm
Type of loading and unloading	With shovel	Automatic tilting	Semiautomatic pneumatic basket	With shovel
Useful dimensions of basket/shovel	330x260 mm	400x450 mm	285x165 mm	360x330 mm
Machine dimensions (WxDxH)	1200x3500x1600 mm	1400x1680x1840 mm	1100x3650x1700 mm	1572x3650x2100 mm
Weight	634 Kg	1080 Kg	650 Kg	854 Kg
Dissociator weight	72 Kg	100 Kg	72 kg	100 Kg

The standard temperature of the machine is 950°C Electrical power supply 230/400V 50/60 Hz 3phase The dissociator is available on request

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TECHNICAL DATA

	Z05_45	Z05_49	Z05_53
Furnace Electrical power	5,5 kW	15 kW	25 kW
Dissociator Electrical power	3 kW	3 kW	6 kW
Chamber dimensions (WxDxH)	200x488x110 mm	300x905x140 mm	400x1680x200 mm
Type of loading and unloading	With shovel	Semiautomatic pneumatic basket	Semiautomatic pneumatic basket
Useful dimensions of basket/shovel	252x162 mm	290x250 mm	580x324 mm
Machine dimensions (WxDxH)	710x2100x1460 mm	1300x3650x1700 mm	1320x5000x2100 mm
Weight	220 Kg	724 Kg	1310 Kg
Dissociator weight	51 Kg	72 Kg	143 kg

The standard temperature of the machine is 950°C Electrical power supply 230/400V 50/60 Hz 3phase The dissociator is available on request



CONTINUOUS WIRE&STRIP ANNEALING

CONTINUOUS WIRE&STRIP ANNEALING



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TECHNICAL DATA

	Z08_602	Z08_702	Z08_604	Z08_704
Total Electrical power	15 kW	15 kW	25 kW	23,5 kW
Furnace Electrical power	7,2 kW	7,2 kW	14,4 kW	14,4 kW
Dissociator Electrical power	4 kW	4 kW	4 kW	4 kW
Working channel	2	2	4	4
Length of heating body	1800 mm	1700 mm	1800 mm	1700 mm
Max speed	70 m/min.	60 m/min.	70 m/min.	60 m/min.
Wire production	Ø 0,15 /1,5 mm			
Plate production	Max. 12 mm	-	Max. 12 mm	-
Machine dimensions (WxDxH)	5000x700x1850 mm	4300x920x1900 mm	5000x700x2250 mm	4800x920x2000 mm
Weight	950 Kg	-	1600 Kg	-

The standard temperature is 1100°C Electrical power supply 230/400V 50/60 Hz 3phase The dissociator is available on request



BELT FURNACES









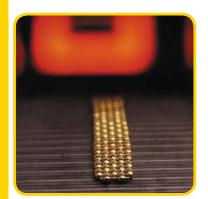


TECHNICAL DATA

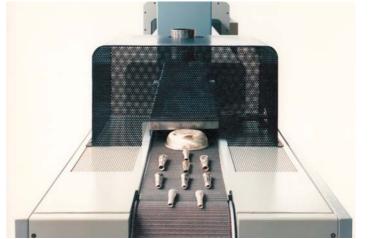
	Z01_01	Z01_04	Z01_10	Z01_23	Z01_24
Furnace electrical power	3 kW	9 kW	9 kW	18 kW	33 kW
Ammonia cracker power	2,5 kW	4 kW	4 kW	6 kW	6 kW
Dimension of the chamber (WxH)	50x27 mm	100x40 mm	80x35 mm	100x40 mm	100x40 mm
Standard temperature	950°C	950°C	1100°C	950°C	1100°C
Heating zones	1	1	1	1	2
Length of heating body	600 mm	1000 mm	1000 mm	1000 mm	1500 mm
Nr. of belts	1	1	1	2	2
Speed with mesh belt	0,1 - 6 m/min.	0,1 - 6 m/min.			
Speed with steel belt	0,05 - 3 m/min.	0,05 - 3 m/min.			
Machine dimensions (WxDxH)	2000x450x1180 mm	4165x750x1520 mm	4165x755x1510 mm	4165x1075x1485 mm	5130x1115x1485 mm
Machine weight	340 Kg	1200 Kg	682 Kg	1360 Kg	1640 Kg

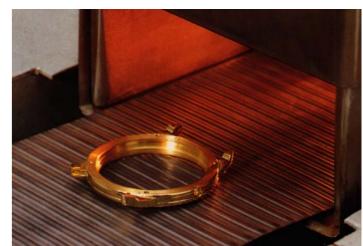
Electrical power supply 230/400V 50/60 Hz 3phase

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TECHNICAL DATA

	Z01_33	Z01_38	Z01_75	Z01_78	Z01_89
Furnace electrical power	7,5 kW	6 kW	16,5 kW	16,5 kW	24 kW
Ammonia cracker power	4 kW	4 kW	4 kW	4 kW	6 kW
Dimension of the chamber (WxH)	80x40 mm	80x40 mm	100x40 mm	100x40 mm	80x30 mm
Standard temperature	950°C	1100°C	1100°C	950°C	1100°C
Heating zones	1	1	2	2	1
Length of heating body	800 mm	800 mm	1500 mm	1500 mm	1000 mm
Nr. of belts	1	1	1	1	2
Speed with mesh belt	0,1 - 6 m/min.				
Speed with steel belt	0,05 - 3 m/min.				
Machine dimensions (WxDxH)	3000x735x1450 mm	3000x750x1500 mm	5130x800x1525 mm	5130x785x1530 mm	4300x1195x1620 mm
Machine weight	561 Kg	560 Kg	888 Kg	875 Kg	1378 Kg

Electrical power supply 230/400V 50/60 Hz 3phase

Data here above are not binding and may be changed during the engineering and construction phase of the machines.





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GAS GENERATORS & AMMONIA DISSOCIATORS

PRECIOUS METALS INGENIUTY

HYDROGEN & NITROGEN GENERATORS

AMMONIA DISSOCIATORS



TECHNICAL DATA

	Z09_01C	Z09_02C	Z09_03	Z09_04	Z09_05	Z09_06
Electrical power	2,5 kW	2,5 kW	4 kW	6 kW	9 kW	6 kW
Machine capacity	1,5 m³/h	2,5 m³/h	4 m³/h	6 m ³ /h	12 m³/h	5 m³/h
Working pressure	0,8÷1, Bar	0,8÷1, Bar	0,8÷1, Bar	0,8÷1, Bar	0,8÷1, Bar	0,8÷1, Bar
Machine dimensions (WxDxH)	370x370x500 mm	450x450x560 mm	450x450x650 mm	450x450x1000 mm	660x610x1200 mm	450x450x800 mm

The standard temperature of the machine is of 900° C The Electrical power supply is 230/400V 50/60 Hz 3phase

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HYDROGEN GENERATORS



NITROGEN GENERATORS



TECHNICAL DATA - HYDROGEN GENERATORS

	Z09_508	Z09_510	Z09_513	Z09_516
Electrical power	29,5 kW	38 kW	49,5 kW	61 kW
Hydrogen production	Maximun flow 5,334 Nmc/h Pressure 2,5 bar Purity 99,3 ÷ 99,8% Umidity (dew point) saturated T.A.	Maximun flow 6,66 Nmc/h Pressure 4,0 bar Purity 99,3 ÷ 99,8% Umidity (dew point) saturated T.A.	Maximun flow 8,66 Nmc/h Pressure 4,0 bar Pureity 99,3 ÷ 99,8% Umidity (dew point) ~ - 10%	Maximun flow 10,66 Nmc/h Pressure 4,0 bar Purity 99,3 ÷ 99,8% Umidity (dew point) 10%
Oxygen production	Maximnu flow 2,66 Nmc/h Pressure 2,5 bar Purity 98,5 ÷ 99,5% Umidity (dew point) saturated T.A.	Maximun flow 3,33 Nmc/h Pressure 4,0 bar Purity 98,5 ÷ 99,5% Umidity (dew point) saturated T.A.	Maximun flow 4,33 Nmc/h Pressure 4,0 bar Purity 98,5 ÷ 99,5% Umidity (dew point) ~ - 10%	Maximun flow 5,33 Nmc/h Pressure 4,0 bar Purity 98,5 ÷ 99,5% Umidity (dew point) 10%
Environmental conditions	Temperature 5 ÷ 35 °C Umidity 20 ÷ 80% Max altitude 1000 m.s.m. Noisiness < 72 dBA	Temperature 5 ÷ 35 °C Umidity 20 ÷ 80% Maxi altitude 1000 m.s.m. Noisiness < 72 dBA	Temperature 5 ÷ 35 °C Umidity 20 ÷ 80% Max altitude 1000 m.s.m. Noisiness < 70 dBA	Temperature 5 ÷ 35 °C Umidity 20 ÷ 80% Max altitude 1000 m.s.m. Noisiness < 70 dBA
Machine dimensions (WxDxH)	800x1800x1200 mm	850x1800x1200 mm	950x2000x2000 mm	950x2000x2000 mm
Weight	430 Kg	525 Kg	1560 Kg	1710 Kg

Electrical power supply 230/400V 50/60 Hz 3phase

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TECHNICAL DATA - NITROGEN GENERATORS

	Z09_604	Z09_608	Z09_616
Electrical power	120 VA	120 VA	120 VA
Compressed air feeding	Minimum Pressure 6 Bar Maximum Pressure 9,5 Bar Minimum Quality AlS08573.1 classe 1.2.1 Flow rate 15 Nmc/h	Minimum Pressure 6 Bar Maximum Pressure 9,5 Bar Minimum Quality AIS08573.1 classe 1,2.1 Flow rate 30 Nmc/h	Minimum Pressure 6 Bar Maximum Pressure 9,5 Bar Minimum Quality AlS08573.1 classe 1.2.1 Flow rate 60 Nmc/h
Nitrogen Production	Output Pressure 2 ÷ 8 Bar Flowrate 4 Bar Purity A 99,5	Output Pressure 2 ÷ 8 Bar flowrate 8 Bar Purity A 99,5	Output Pressure 2 ÷ 8 Bar Flowrate 16 Bar Purity A 99,5
Environmental conditions	Temperature 5 ÷ 35 °C Humidiy 20 ÷ 80% Max altitude 1000 m.s.m. Noisiness < 72 dBA	Temperature 5 ÷ 35 °C Humidiy 20 ÷ 80% Max altitude 1000 m.s.m. Noisiness < 72 dBA	Temperature 5 ÷ 35 °C Humidiy 20 ÷ 80% Max altitude 1000 m.s.m. Noisiness < 72 dBA
Machine dimensions (WxDxH)	750x1020x1900 mm	750x1200x1900 mm	750x1600x1900 mm
Weight	190 Kg	280 Kg	460 Kg

Electrical power supply 230V 50/60 Hz 1phase

IKOI Machines and plants for processing gold and silver

IKOI is a high-tech manufacturing company managed by Giovanni Faoro. He has been working since 1977 in the heating and chemical treatments of precious metals. He is the owner of numerous patents in this field.

Technical personnel is the base of the know-how of IKOI: chemical, metallurgist and electronic engineers with decades of experience gained in the precious metals industry.

IKOI is the leading company in refining and melting processes in the precious metals markets, where it has been able to research and develop its own technologies becoming a reference partner for its customers.

Thanks to a prestigious and equipped Research & Development laboratory, IKOI provides its customers with the wealth of experience resulting from consistent collaborations with Research Institutions, prestigious Universities such as CNR, University of Padua "Section of Metallurgy" and International Research Centres.







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