## **OKAY PLUS NEW**



It is equipped with a universal flask cradle i.e. with an easy movement of the lever it is possible to adjust the flask support and any sprue button in the flask will be easily centered with the crucible exit hole. This universal cradle is particularly suitable when using the technique of the free expansion without metal casting rings.

The sloping position of the crucible is very important because it allows the melted alloy to smoothly flow out of the crucible during spinning and it also ensures a complete and smooth flow of those alloys with a low specific weight.



The highly efficient heating power output is capable of melting up to 90 grams chrome-cobalt-molybdenum.

With 60-80 grams it is possible to cast two skeletons in one flask.

For example 50 seconds are sufficient to melt 40 grams chrome-cobaltmolybdenum.

The low power supply is 3 kW singlephase and it suits the small laboratories as well

AUTOMATIC MOVEMENT OF THE INDUCTION COIL WHICH REPLACES THE MANUAL CONTROL CENTRALISED "ONE LOCATION" CONTROLS.

SPECIFICATIONS		
ELECTRICAL	singlephase 230 V 50/60 Hz - 3 kW	
CRUCIBLE CAPACITY	from 5 to 90 g ccm and precious alloys	
FLASKS	from 30 to 90 mm Ø - 60 mm h	
STEPLESS POWER REGULATION		
WATER COOLING		
OPTICAL INFRARED PYROMETER	automatic measurement and programmable stabilization 2% 5% ±	
COMPRESSED AIR		
DIMENSIONS AND WEIGHT	base 600 x 710 mm, 1050 mm h - 110 kg	



# **SMARTCAST**

To increase and promote the use of the induction casting system and eliminate the torch melting.

The SMARTCAST offers the same proven features and functions as the OKAY PLUS NEW.

It differs in the optical pyrometer and universal cradle which are not fitted.

The water cooling system with connection to the water network of the laboratory is available on request.

DIMENSIONS AND WEIGHT: base 510 x 710 mm, 880 mm h - 95 kg

# **OKAY MAX**

The dental laboratories with high production require reduced working times and therefore they need large sized crucible which can accommodate the sprue buttons for remelting without having to cut the sprues off them.

The OKAY MAX fits the optical pyrometer and has the same proven features and functions as the OKAY PLUS NEW. It differs in the dimensions, the higher power output and the water circulation system which is connected to the water network of the laboratory.

	SPECIFICA
l	ELECTRICAL
(	CRUCIBLE CAPACITY
,	with large sized crucibles
	STEPLESS POWER REGULATION
	FLASKS
1	WATER COOLING
(	COMPRESSED AIR
I	DIMENSIONS AND WEIGHT

The optional device for printing the casting protocol can be fitted on all casting machine models and must be ordered with the machine.

The warranty has a validity of 24 months for all casting machines provided they are utilized with the original ASEG GALLONI SPA crucibles.

ASEG GALLONI SPA - 20078 S. Colombano (MI) - Italy via Caravaggio, 16 Tel. (+39) 0371 200233 Fax (+39) 0371 898705 www.galloni-aseg.com - e-mail: info@galloni-aseg.com





#### TIONS

singlephase 230 V 50/60 Hz - 4 kW ..150 g ccm - 100 g precious alloys ..from 30 to 100 mm Ø - 90 mm max. h ..2 |/min - 3-4 BAR ..from 3 to 6 BAR ..base 670 x 740 mm - 1040 mm h - 132 kg



EN



SALOA

RESSOVAL

100

MARTCAST

## GALLONI...there's no better way to cast!



OKAY

**OKAY PLUS NEW** 



Made in Italy

GALLONI'S expertise and experience in the design and production of electronic induction casting machines for dental applications date back to the year 1948 (first producer in the world in 1957). Thousand of machines which are functioning on the global market with full satisfaction of the

users are the proof of the quality of the Galloni machines. Continuous research has culminated in the development of the OKAY line which offers high work safety and simplicity of use.

In 1992 the electronic tubes were replaced by a modern electronic "solid state" system which features a lower frequency and improves the melting conditions of all alloys available on the dental market.

It is important to be aware that the induction melting energy with the frequency used in our new line of machines is the same used by all global manufacturers for the production of dental alloys.



The magnetic field produces a stirring effect throughout the melting mass which is visible during the melting process and which guarantees the temperature uniformity of the molten metal. Moreover unlike the electric casting machines using the heating elements, temperatures over 2000 °C are reached without jeopardizing any part of the machine. For example 50 seconds are sufficient to melt 40 grams chrome-cobaltmolybdenum.

The power output is finely adjustable and works on stepless power positions which is a requirement when melting precious alloys. The high centrifugal acceleration and the vacuum/pressure casting methods are considered the best systems to obtain thin and compact casting pieces, mechanically suitable to the most demanding casting needs.

With the infrared optical temperature controller it is possible to read and hold the casting temperature, to obtain the complete fluidity of the metal which will be cast into the flask and reach the thinnest parts of the model. Each of over 150 dental alloys emits a different light, named "emissivity" that is detected by the photodiode and converted into temperature degrees with a precision ranging from 2% to  $5\% \pm$ 



An accurate and long research has been carried out into the quality and shape of the crucibles.

The quality to ensure the original purity of the alloys and the shape to guarantee a smooth metal flow into the



CISQ

ISO 9001:2000 Cert. nº 1460/1 Cert. nº IT-1159

- IQNet

ICIM

A special device supplied on request, prints the "CASTING PROTOCOL" on which all casting parameters such as alloy type and quantity, casting temperature, laboratory name and date are recorded.

The user-friendly control layout and the compliance with the CE regulations feature machines with an advanced technology built in our factory according to the ISO 9001 VISION 2000 Quality System.

We reserve the right to modify technical specifications without notice.

flask

## PRESSOVAC

# **Electronic Induction Vacuum/Pressure Casting Machine**

It is well known that electronic induction melting is the best system for melting metals and the possibility of melting and casting under vacuum allows a higher purity and homogeneity thus exploiting all metallurgical properties of the alloys. Castings of high quality are formed under vacuum since the molten alloys reach the thinnest parts of the model and solidify under pressure. All dental alloys, non-precious and precious, improve their properties with vacuum which is essential for alloys containing titanium.

#### THE RESULT IS:

- higher purity of casting
- ✓ greater homogeneity
- better resistance to corrosion
- ✓ prosthetic frames with minimum thickness
- ✓ reduced reaction of molten

alloy with investment

✓ reduced casting oxide inclusions due to the absence of nitrogen and oxygen





machine by a tilting system



**GAL** - 1948 produces casting machines for precious dental alloys

GALES - 1957 manufactures the world's first induction centrifugal casting machines for dental applications

GALEN - 2004 creates a new induction vacuum/pressure casting



### PRESSOVAC

Easy installation and extremely simple to use thanks to a graphic control panel, which supplies the necessary information and leads the operator through the complete casting process.

and, unlike machines using electric heating ele-

The induction heating has no temperature limits

### ments, it requires only a little maintenance. Auto-diagnostic device to show irregular functions.

Blue filter to protect the eyes from the light resulting from high temperatures.

## SPACE SAVING DESIGN, RAPID AND HIGH PRODUCTIVITY

After having loaded the crucible with metal and placed the mould into the casting chamber, a fully automated electronic control system ensures a successful melting and casting cycle under vacuum. By means of a pushbutton the molten metal is poured into the mould under vacuum and then pressurized precisely on completion of the pour. After 60 seconds the pressure is released, the casting chamber opened and the machine is ready to begin a new casting cycle.

PRESSOVAC offers a high degree of work safety and ease of use to cast any prosthetic pattern in all dental casting alloys (pure titanium and nickel alloys excluded) without requiring any special sprueing technique.

A metal support table fitted with wheels supplied on request accepts the PRESSOVAC unit, the optional ancillary tank of the compressed air, the closed circuit water cooling system and the vacuum pump.

The crucibles have been specially designed in the quality and shape for this kind of casting system.







#### **SPECIFICATIONS**

ELECTRICAL:	Singlephase 230 V 50/60 Hz - 3 kVV		
CRUCIBLE CAPACITY:	from 5 to 80 g of all normal and palladium precious alloys, ch.co.mo.,		
and titanium alloys (pure titanium and nickel alloys excluded)			
FLASKS:	from 30 to 90 mm diam., from 55 to 70 mm h.		
STEPLESS POWER REGULATION			
OPTICAL INFRARED MEASUREM	ENT OF THE HEAT LEVEL VALUE (± 2% - 5%)		
VACUUM:	with external vacuum pump		
WATER COOLING:			
COMPRESSED AIR	from 6 to 8 BAR		
AUTO-DIAGNOSTIC CAPABILITY	OF THE MACHINE IRREGULAR FUNCTIONS		
DIMENSIONS AND WEIGHT	base 600 x 500 mm, 580 mm h - 90 kg		