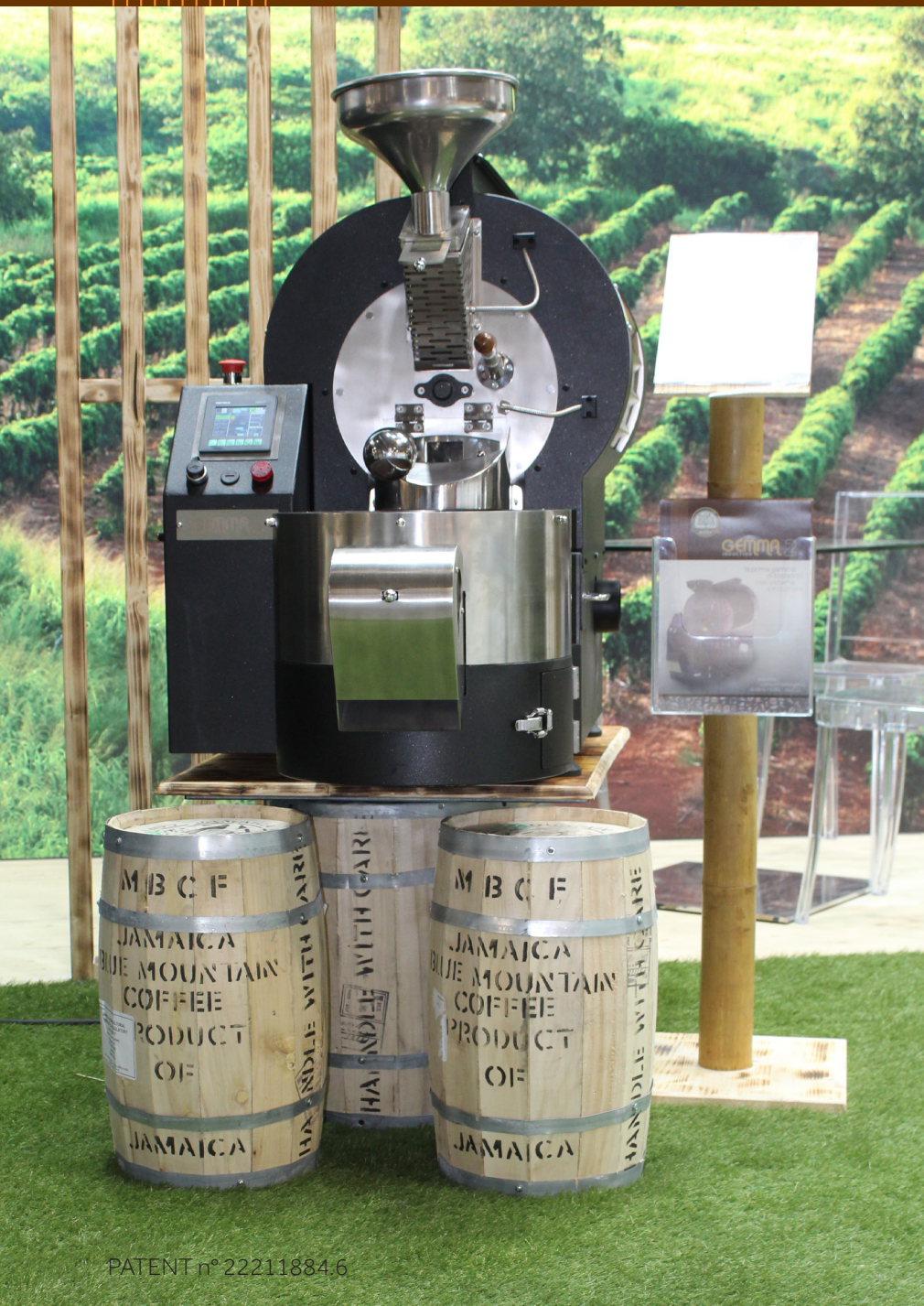




GEMMA 2[®]

INDUCTION



the first range
of roasting
machines
with an
induction system

Sweet Coffee's
roasting machines
a completely
green solution

cut down
energy consumption
by more
than 60% - no CO₂

PATENT n° 22211884.6



Roasting machine equipped with induction heating

Induction heating is achieved through a coil placed outside the container cylinder of the roasting chamber, induced currents in the drum created by the Joule effect power heat in the drum itself, which in turn transfers heat to the rotating drum by radiation and convection

Heating of the rotating drum is deliberately indirect to avoid overheating of the rotating drum called the coil conformed in such a way as to allow the entry of a flow of air from below for the extraction of volatile products that are produced during the roasting process and escape from above

An insulating layer is placed on the outside of the container drum to the protection of the induction coil

Power control over the coil is achieved by referring to the temperature of the air inside the drum rotating and detected utilizing a thermocouple placed inside the rotating drum and placing a limit on the maximum temperature of the outer cylinder detected through the thermocouple

The airflow is regulated utilizing a regulating valve of the exhaust airflow

It is controlled according to the error of the temperature inside referred to as the thermocouple



technical specifications

Model



Capacity	<i>Kg</i>	2
Control unit	<i>mod.</i>	Gefran 2850 T
Drum diameter	<i>mm</i>	240
Drum length	<i>mm</i>	239
Calculated loading volume	<i>cm³</i>	5.500
Roasting cycle time	<i>min.</i>	15/18
Roasting cycles	<i>h</i>	4
Maximum load capacity	<i>gr</i>	2.000
Maximum drum rotation speed	<i>r/min.</i>	65
Maximum driving torque of drum shaft	<i>Nm</i>	50
Maximum drive torque of the cooler shaft	<i>Nm</i>	ND
Displayed zones	<i>n°</i>	4
Thermoregulated zones	<i>n°</i>	2
Total heater power	<i>Watt</i>	2.500
Air requirement for cooling	<i>cm³</i>	35
Oil content	<i>l</i>	No
Cooler motor group power	<i>Watt</i>	100
Drum motor group power	<i>Watt</i>	200
Toasting cycle average power	<i>Watt</i>	550/750
Total installed power	<i>Watt</i>	2.800
Power supply 1F+N+Earth	<i>Volt</i>	220
Power Supply (Current)	<i>A</i>	12
Total net weight	<i>Kg</i>	68
Maximum overall dimensions (LxHxP)	<i>mm</i>	950 x 900 x 620



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PARTNER



GEFRAN