





SWEET COFFEE
ITALIA

GEMMA 120IND[®]

 First roaster in history to achieve over 100 kg per batch with electricity.

 It eliminates the use of fossil fuels, optimises flue gas treatment and reduces the overall environmental impact of its production plant.



Discover more



**FROM GREEN COFFEE TO GREEN ROASTING,
A SUSTAINABLE SOLUTION.**

GEMMA 120IND®

FIRST ROASTER IN HISTORY TO ROAST OVER 100 KG PER BATCH USING ELECTRIC POWER

Gemma 120IND® is the first roaster to roast over 100 kg of coffee per batch using only electrical energy. This is made possible by the electromagnetic induction heating technology, which heats the drum with an alternating magnetic field, guaranteeing precise and fast roasting. Unlike traditional systems that use fossil fuels, induction reduces environmental impact, offering high production capacities and greater energy efficiency, ideal for sustainable roasting.

INNOVATION AND AUTOMATION FOR EFFICIENT AND SAFE PRODUCTION

Gemma 120IND® incorporates design innovations that improve efficiency and safety. The liquid-cooled, high-power inductor ensures stable heating even during extended cycles. Permanent magnet motors ensure precision, reducing maintenance costs. In addition, advanced automation with automatic cleaning and hopper loading increases productivity, reduces human intervention and maintains consistent performance.

AUTOMATION AND RELIABILITY FOR CONTINUOUS PRODUCTION

Gemma 120IND® optimises roasting with an automated system, including automatic hopper loading and reduced human intervention, increasing safety. Permanent magnet motors and electromagnetic cooling ensure high reliability, reducing downtime. With automated cleaning and cooling, the machine delivers consistent performance, improving productivity and product quality for industrial roasters.

ADVANCED TECHNOLOGY FOR COOLING AND SAFETY

Gemma 120IND®'s electromagnetic cooling system improves the uniformity and speed of the cooling process, eliminating mechanical gyrations. This reduces safety risks, bulk and product waste. With a capacity of 120 kg per cycle, high energy efficiency and a high level of automation, Gemma 120IND® sets new standards in industrial roasting.

Load capacity	Kg	120
Control unit	mod.	G Vision
Drum diameter	mm	1190
Drum length	mm	1100
Calculated loading volume	cm ³	611000
Roasting cycle time	min.	6/20
Maximum load capacity	g	120000
Maximum drum rotation speed	g/min	40
Maximum drive torque of drum shaft	Nm	1,3
Displayed zones	n°	4
Thermoregulated zones	n°	4
Total heater power	Watt	100000
Air requirement for cooling	m ³ /h	5500
Oil content	l	no
Cooler motor group power	Watt	9000
Drum motor group power	Watt	6000
Roasting cycle average power	Watt/h	nd**
Total installed power	Watt	120000
Power supply 3f+N+Earth	Volt	400
Power supply (current)	A	175
Total net weight	Kg	*
Overall dimensions (LxWxH)	mm	*

The company reserves the right to modify data and specifications without prior notice, ensuring continuous improvement and alignment with market demands.

***to be defined according to the customer's needs*



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