

ROLLER MILL **ONZ**[®]

APPAREIL A CYLINDRES

pininfarina



INNOVATION
MORE THAN
JUST A WORD

ROLLER MILL **Alapros**[®]

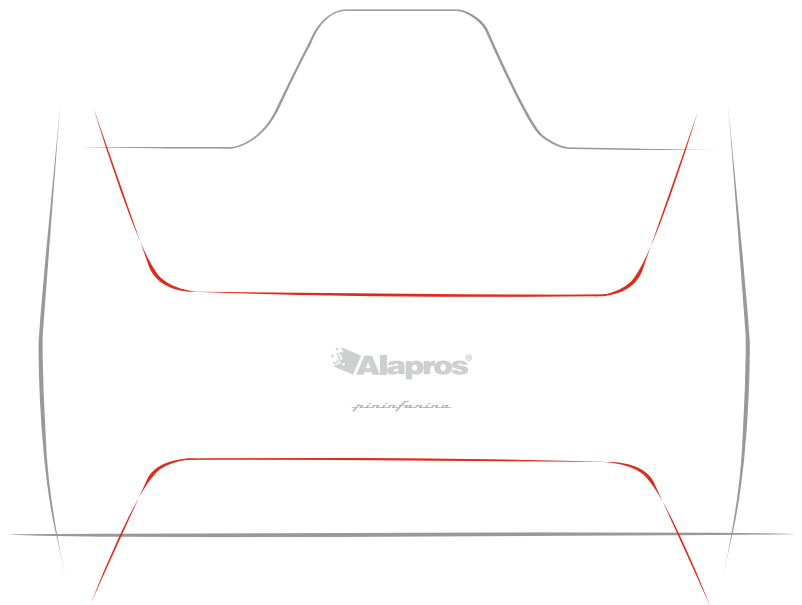
APPAREIL A CYLINDRES

ONE STEP FURTHER

Roller mills can be used within a system in varying numbers depending on the technically equipped capacities with respect to product types, in order to obtain the desired product by breaking and crushing cereals. They are used in;

- Flour and semolina factories
- In plants processing cereals such as rice, corn, rye, barley, etc.
- Coffee grinding plants.

The machine consists of a product entry box, feeding system, breaking and crushing balls and a scraping brush and blade system. In addition, the pneumatic equipment is supported with electric automation sections equipped with speed control systems and a reducer motor. Clean air is connected to the pneumatic system of the machine, providing air at 6 bar continuous pressure, which is processed by the driers. The product coming to the inlet box from within the system, sets the machine, which is precalibrated, into motion. The input and output product that enters and exits the machine during grinding process is both visually inspected on site and technically assessed in the laboratory to ensure that it is of the desired condition. Accordingly, the product input speed of the machine with respect to capacity is controlled, the roller balls are adjusted with a precise adjustment system and the system is locked once standard product flow is ensured. There will be no need to readjust the settings of the machine to grind a different product, should the need arise. As stated above, in this machine, all through the grinding stage, breaking and crushing balls (cylinders) are used with respect to the diagrams. If the input product entering the feeding box is inadequate during operation, the capacitive sensors stop the feeding system and set the breaking and crushing balls to idle position. In this position, both wearing down of the scraping brushes on the breaking balls is prevented, and on the crushing balls, the wear on ball surfaces and scraping blades is avoided. At the same time the energy consumption is reduced, because the idle motors of the machine draw less electric current.





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OUTSTANDING FEATURES

It is possible to disassemble and assemble the feeding system and the grinding system as a set.

Waste oil accumulation is avoided and the mechanical parts of the machine stay cleaner as a result of their technical specifications.

Since the balls are precisely spaced to prevent a slippage in the belts, when the machine suddenly stops while loaded and then is restarted, the belts will last longer, especially because the Polly V and other V-belts will not wear out.

Due to the newly designed technical specifications of the belt tensioner system, a longer life for the belts is ensured.

By ensuring that the oil maintains its technical specifications for a longer period due to the heat discharge filter in the bearing, the lifespan of the ball bearings are extended and maintenance is required less frequently.

Assembling and disassembling the brush and scraper systems to replace parts is now easier.

Due to the width of the inlet box and the technical changes made on the feeding balls, a more homogeneous flow on the feeding ball is ensured when distributing the product. Since a mechanical product router is mounted on the product inlet box that can continually intervene in the inlet port, the

poured product is routed to the desired place and the bar sensors perform more efficiently.

Technology packages are available, within which a central lubricating system belt control sensor, a bearing heat control sensor, a vibration sensor, and a choke sensor in the bottom exit bunker cylinder can be added. In addition to the sensors showing on and off positions on the roller ball movement cylinders, there are also sensors showing feeding and ball rates.

the
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alapros
link®

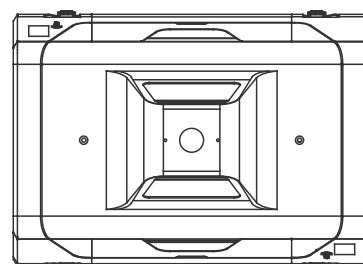
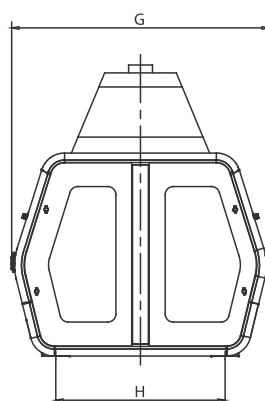
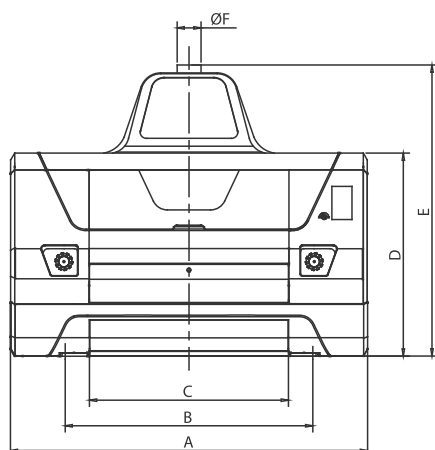


 **Alapros®**

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ONE STEP FURTHER

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MODEL	DIMENSIONS mm.								WEIGHT kg.
	A	B	C	D	E	Ø F	G	H	
250 / 1000	2000	1306	1000	1275	1830	Ø120	1620	1063	3275
250 / 1250	2250	1556	1250	1275	1830	Ø150	1620	1063	3650
250 / 1500	2500	1806	1500	1275	1830	Ø150	1620	1063	4100

HIGHLIGHTS

INNOVATION.MORE THAN JUST A WORD



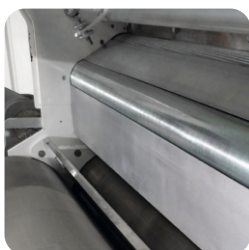
Precise Adjustment System

Extraordinary design helps the system working without any loose.



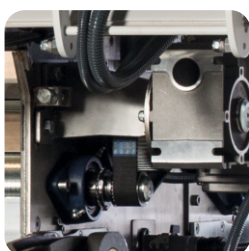
Roll Changing System

Roll set with all components can be moved out effortlessly without any disassembling and lifting up.



Safe Distance

In case of foreign material drop, roll gap can be opened up to 4mm instantly for preventing possible damage on the system.



Feed System

In case of changing feed roll set, simply geared motor set does not require disassembling.

Total Sealing

There is a sealing cover and easily operated by hand isolates particles for keeping the bearing system clean.



Hygiene Secured

Internal components made of stainless materials, starting from inlet through outlet.



Single-Body Structure

Special Uni-Body steel frame designed for more strength. Innovative new design is proving better resistance under stress, comparing usual two separate bodied roller mill structures.



Bearing Lubrication

For more efficiency, innovative vent points on bearings enables to relieve heat and pressure inside. Also, lubrication point re-located for equal wear protection inside surfaces of bearing.





PININFARINA TODAY AND TOMORROW

Starting from its roots and from the solid reputation achieved during 90 years of glorious history, Pininfarina has confirmed its role as standard-bearer of the aesthetic values of Italian design in the world. Today's activities are focused on design (automotive and non-automotive), engineering services (product development, testing, prototype construction) and production of very small series or exclusive high quality cars.

“ In its genes, Pininfarina today is the same as it was in the Thirties: the central role of design, aesthetic sensitivity capable of creating timeless beauty, constant striving for innovation, the strength of a tradition that brings together industry, technology and stylistic research, the capacity to interpret the client's requirements thus maintaining its brand identity, and a propensity for long-term collaborations. These values, together with the commitment of the entire Group, will enable us to build a bridge towards the future ”



Paolo Pininfarina

TRADITION AND INNOVATION

Pininfarina is an internationally renowned design house, since 89 years emblem of the Italian style in the world, with offices in Italy, Germany, China and the United States. Masterpieces for prestigious brands such as Ferrari, Alfa Romeo, Maserati and BMW were born from Pininfarina's pencil. In 1986 the third generation of the Pininfarina family extended the company's competence outside the automotive world. In more than 30 years of activity, Pininfarina has developed over 600 projects under the guidance of Paolo Pininfarina, Chairman of the Pininfarina Group. The company's main activities include Transportation design (yachts, aircraft, private jets and people movers), Industrial design (electronics, sports goods, furnishings, equipment and machinery, consumer goods, graphic design and packaging), Architecture and Interiors (residential projects, hospitality, sports and commercial structures), Customer Experience design and User Interface design.

PININFARINA ECOSYSTEM

A leading player in the luxury industry, the Pininfarina Group has been moving dreams since 1930. Icon of the Italian design in the world, it has contributed to write the history of the global automotive industry.

Through a long process of growth and transformation, ideas and creativity, Pininfarina has evolved from an artisan concern to an international service Group. Listed on the Stock Exchange, the Pininfarina Group continues to be the benchmark of the auto and industrial design, deeply involved to designing customer journeys and unique user experiences merging physical and digital worlds through aesthetics and technology.

With its headquarters in Cambiano, Torino, the Group employs nearly 700 people through its offices in Italy, Germany, China and the United States. The core business is design and engineering services where Pininfarina can leverage on its strong brand name and its outstanding and indisputable reputation as a car designer, to be extended to other sectors, together with its excellent technical knowhow and superior know-how in specific segments of the industrial engineering services value chain, such as production of bespoke cars and aerodynamics. The Pininfarina Group also represents today one of the most prestigious brands in Architecture and Interiors with hundreds of projects and dozens of awards achieved.



BE BRAVE. BE INSPIRING

DISCOVER & DEFINE



We study the customer journey wholly understanding the full spectrum of needs, desires, behaviors, context of the market. We generate insights to define new opportunities.

DESIGN

We translate the insights in a new customer experience, through a seamless combination of physical and digital design.



DEVELOP & REFINE



Our blend of cross-pollination between design disciplines, thoughtful craftsmanship, and collaborative practices with engineers and manufacturers creates the stimuli for high-quality creations. Merging both expertise and vision, here hearts and hands meet to breathe new life into brands, spaces, communications and products.

DELIVER TO MARKET

We enhance the consistency of the customer experience across all the company touchpoints and we support our partners to build the marketing and communication strategy, allowing them leverage on the Pininfarina brand as an additional selling element.





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