



RMX

STAINLESS STEEL ROLLERMILL



New design and dedicated attention for details and hygiene are the peculiarity of the RMX Roller mill, starting from the careful choice of materials.

Stainless steel

Stainless steel is the material dominating the entire structure. The surface finishing is obtained by the “microsphere polishing” technique assuring easy cleaning and maintenance as well as absence of molds and bacteria. Stainless steel unloading hoppers are integral parts of the machine.

Cast iron

Basement in stainless steel. With the support of modern CAD 3D design technology it was possible to convey all structural forces onto the basement. Thus guaranteeing a very good sturdiness and resistance of Ocrim roller mills. Unmatched is the level of mechanical sturdiness and vibration absorption compared to other materials or modular basements. This translates into an exceptional grinding force, low noise level and durability.

Composite materials

The protection covers are made of composite non-deformable material (sandwich process) of soundproofing.



Fixed on the base, is the grinding rolls assembly which is self-supporting and easily removable without the use of a winch or any other lifting tool.

The traditional grinding rolls belt transmission - patented by Ocrim in 1989 - for which LAM roller mill is very famous and appreciated, is still a milestone achievement and adopted in the rolls assembly, as well as the pneumatic cylinder which engages and disengages the rolls and the micrometric adjustment system. The latter is available also in the automatic version. A set of bearing fixed on rolling guides allows the lift and complete extraction of the grinding rolls assembly which can be directly placed on a roll carrying trolley.

The feeding group is another self-supporting module easily assembled and disassembled. The polycarbonate feed tube has a large capacity and the corners are designed to allow a smooth flow of the stock thus avoiding “bridging” and unsanitary accumulation on the walls.

Basic functions

The feed rolls revolutions are regulated by an inverter. The level in the feed tube is detected by a capacitive probe. Automatic adjustment maintains product level at set value. It is always possible to choose type of operation at fixed revolutions by disabling the adjustment. In this case it is possible to manually regulate the feed valve in order to reach the best milling conditions. A patented system allows setting of automatic cleaning cycle of the feed tube. The electronic system is remarkably simple of use: initial calibrations as well as adjustment settings are made by means of the built-in control panel without intervening on the single components such as the inverter and adjustment probe.



Optional functions/equipment

1. Automatic roll gap adjustment

The roll gap is automatically adjusted by means of a servo assisted movement system operated by step motors. The position is in turn controlled by a micrometric precision potentiometer. The roll gap adjustment system does not depend on the roll engagement and disengagement pneumatic cylinder. In case of emergency, the adjustment mechanism may always be manually operated by means of handwheels. The servo assisted system allows grinding roll position to be controlled remotely by means of standard Profibus communication bus. This translates into simultaneous adjustment of all roller mills in the milling section based on preset recipes, transmitted by the plant's central control system at the beginning of every production cycle.

2. Automatic tensioning system

The belt drive system is complete with an idler wheel for belt tensioning. In this case, automatic tensioning ensures a safe and reliable hold over time, resulting in maintenance and energy savings.

3. Revolutions electronic control

The revolutions of the grinding rolls are controlled by an inductive sensor. Any possible discrepancies in the transmission system are immediately reported to the central control system.

4. Control panel “touch screen”

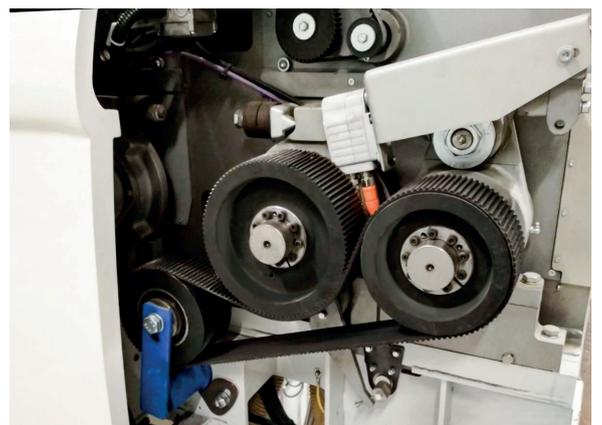
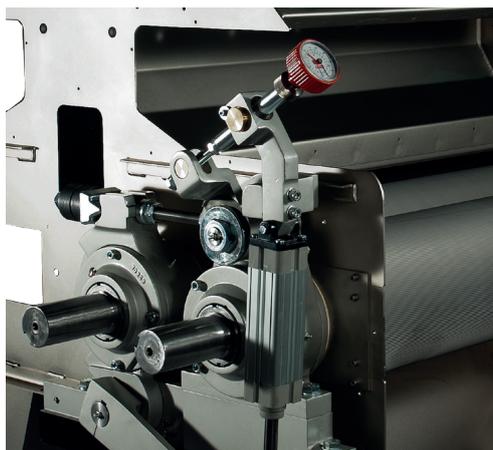
The careful attention to sanitation determined the choice of the control panel “touch screen”. This innovation resulted in the elimination of all selectors, push buttons and signalling lamps on which dust deposits. Thanks to a special cleaning function, the screen can be easily cleaned also during operation.

5. Electrical safety - easy installation

The RMX electrical installation guarantees maximum safety. In fact the isolating switch, which can also be activated in case of emergency, blocks off access to electrical chamber equipment and interrupts all on-board circuits. This procedure eliminates the risk of dangerous contacts with power circuits and injuries due to unexpected mechanical movements. All equipment necessary for voltage transformation is built-in. The electrical installation simply requires a single-phase feeding and a driving signal. There are no hidden costs for external equipment and circuits in the electrical panel.

6. Compressed air elimination

The version of the automatic rollermill includes the option of having the roller mill free of compressed air. The connection to compressed air is no longer required as the pistons for engaging and disengaging the rolls are controlled by the servo-driven movement of the automatic rollermill. This guarantees savings in terms of air consumption and especially in terms of maintenance.



7. @mobile - centralised PLC

The @mobile is the interactive management system for the automatic rollermill. It is a multifunctional system that makes the rollermill a smart machine. The @mobile involves the removal of touch panels from all equipment in the rollermill room and the addition of 2 tablets for the management and control of these machines. By placing the tablet on the rollermill, it automatically detects the passage of the machine and can operate with numerous functions available. Furthermore, for an entire rollermill room, one centralised command and management PLC can be provided, eliminating all individual PLCs from each machine.

This guarantees:

- simple and quick control of the rollermills
- lower maintenance costs and times
- significantly lower rollermill replacement parts



Other options

- Automatic greasing of bearings
- Grinding roller temperature detection
- Bearing temperature detection

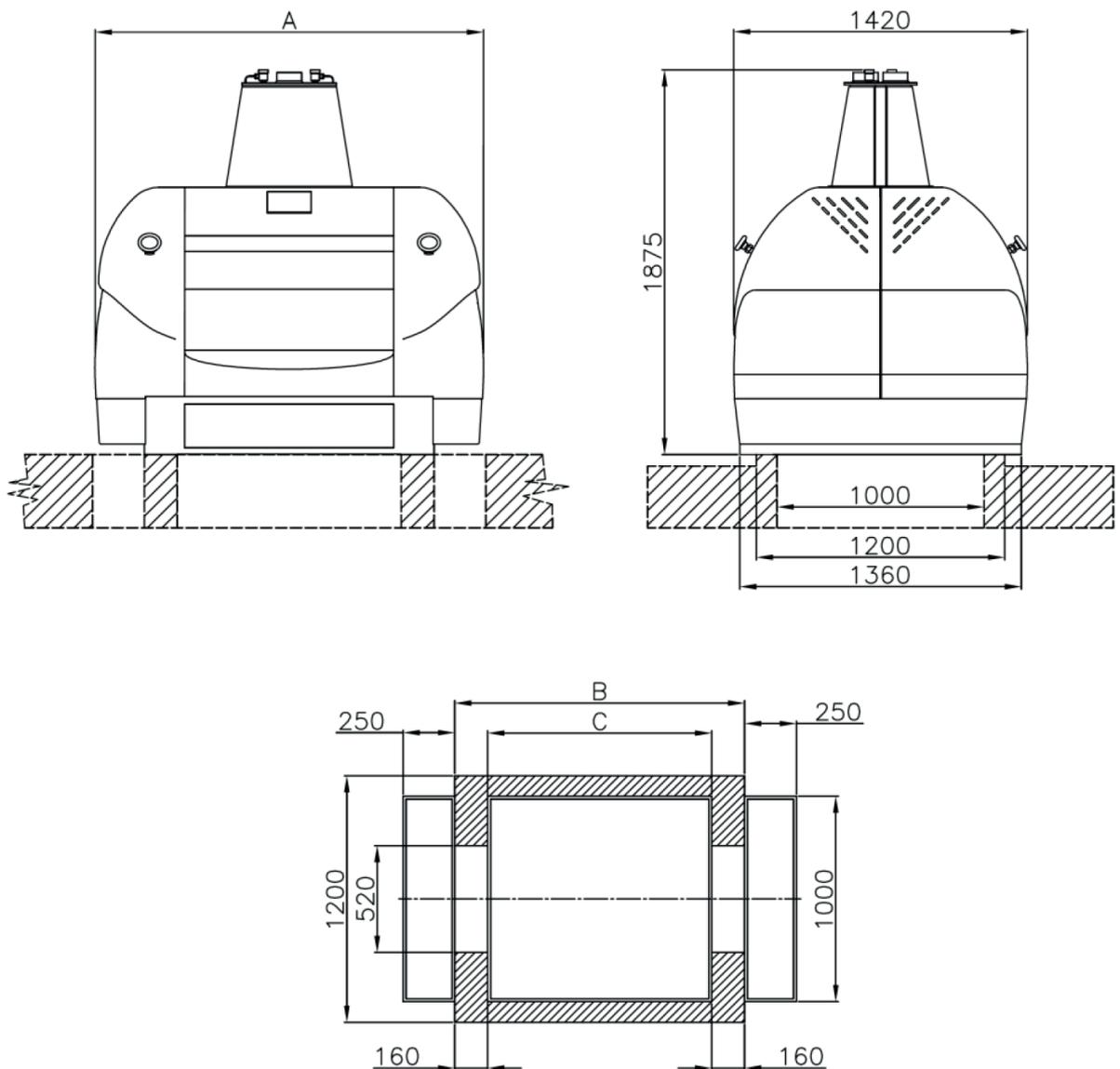


Technical information

Model	Dimensions (mm)			Roll dimensions (mm)		Maximum capacity* (t/h)	Maximum installed power (kW)			Net weight (kg)	Shipping volume (m ³)
	A	B	C	Ø	Length		Motor		Gear motor		
							50 Hz	60 Hz			
RMX 080	1680	1200	880	250	800	6,4	37	44,5	0,55	2820	5
				300	800	6,4				3200	
RMX 100	1880	1400	1080	250	1000	8,0	45	54	0,55	3150	5,6
				300	1000	8,0				3630	
RMX 125	2130	1650	1330	250	1250	10,0	45	54	0,55	3580	6,5
				300	1250	10,0				4180	

* Referred to 1 B1 passage - Type of product: wheat

Technical features of the equipment can be modified without any obligation of notice. Data may be not fully in accordance with the market versions.





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