

MODERNISE THE MILL

by Ocrim, Italy

Bogasari Flour Mills chooses Ocrim's innovation for H, I & J mills - Jakarta, Indonesia

Ocrim, one of the most renowned companies in the world for the construction of milling plants, is one of the main suppliers of the Indonesian Bogasari Flour Mills and has been since 1971. Indeed, both boast years of loyal partnership, which has enriched and strengthened their business and the countries they belong within.



Once again, Bogasari Flour Mills, one of the most renowned milling companies in the world, has chosen Ocrim to perform a complete retrofit and expansion project, in two phases, of the H, I & J mills of Jakarta with precise production objectives. The lines have been in service for over 40 years and originally supplied by Ocrim, for a capacity of 800 tonnes/24h for each line.

The two phases involved, in the first instance, the retrofit and expansion of the cleaning lines and, secondly, the complete retrofit and expansion of the three milling lines with the requirement to take them to the maximum capacity possible within the same building footprint. Ocrim has eagerly accepted the challenge and have transformed the three milling lines, reaching a daily capacity of 50 percent higher than the previous ones, i.e. for a capacity of 1200 tonnes / 24h for each line. The new lines feature all new equipment of the latest generation.

It has been a real gamble, both in researching the ideal layout and in optimising space. To achieve the desired results it was necessary to reinforce

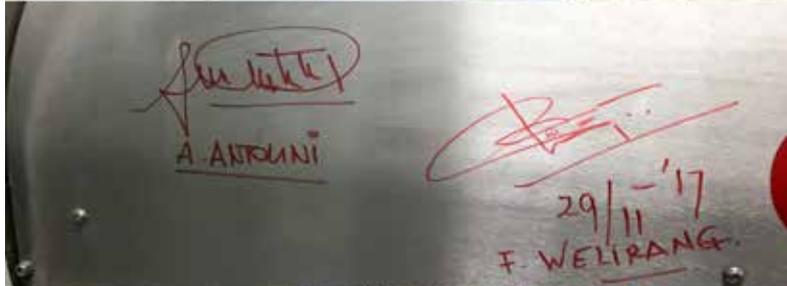
the civil structure of the building, due to additional loads, integrating the building with an additional floor to exploit as much as possible the concept of energy savings applied to the entire plant and, moreover, with a very innovative and efficient diagram, it has been possible to implement Ocrim's last generation double deck roller mills, used in an optimal way to obtain an excellent final product, and to apply modular plansifter with 10 channels also for a concrete optimisation of the spaces.

“The Ocrim automation department has equipped the three lines with the innovative @rollermills software that allows the operator to control the mills remotely via tablet”

It should be remembered that, 40 years ago, a similar cutting-edge work was carried out on the original project in order to obtain a state-of-the-art plant and LKK roller mills were installed, which were already considered a futuristic cut at that point in time. Today, for this new project, it is



Franciscus Welirang, CEO of Bogasari Flour Mills and Alberto Anfolini, CEO of Ocrim, sign the customised roller mill.





possible to note that Ocrim has reserved the same attentions and have conceived the entire work through an innovative approach that regards the design, technical and technological aspects.

Another important element of this new project is relating to the timing of action and operation with which the work proceeded. The project, in fact, was approached in phases, as required by Bogasari Flour Mills, in order not to jeopardise existing production. This choice led Ocrim to implement specific strategies, in terms of planning and installation methods, in order not to disturb the production of the other two mills, starting with the replacement of the cleaning lines, to arrive at the grinding lines, stopping one line at a time.

Ocrim has equipped the three lines with state-of-the-art

technology machines, where the presence of stainless steel has been predominant. This way, it is possible to guarantee the utmost quality of the finished products, in line with the requests of both the Bogasari Flour Mills and the final customers.

At the same time, Ocrim implemented some innovative features and solutions, such as, for example, the automatic sieve press on the plansifters, in order to guarantee ease of operation and reduced maintenance downtimes. Therefore, the goal for the H, I & J mills project & I is the investment into the future for Bogasari Milling business, which is ready for the Industry 4.0 age.

The Ocrim automation department has equipped the three lines with the innovative @rollermills software that allows the

operator/operators to control the mills remotely via tablet and then to program them with a single operation, carried out at any point of the mill and no longer necessarily through the panel on the machine.

This system allows users to intervene promptly in case of adjustments, and production optimisation, since the operator is no longer required to act on the roller mill on-board control, it almost completely cuts down the setting time of the entire line and is also innovative for safety purposes, because, despite running on Wi-Fi, it guarantees a secure protection from external agents.

The concept of modularity, of which Ocrim is a mastermind, was introduced, to reduce the production loss for maintenance operations, thus optimising the relative planning. The modularity grants the possibility to stop only a part of the mill, allowing maintenance only on the affected machines without stopping the entire line: this leads to more productivity and flexibility in the planning of scheduled or emergency maintenance.

All this was possible thanks to technological solutions for layout, plant design and cutting-edge automation.

Ocrim has experienced this umpteenth challenge as an arduous “test” because of the particular requirements of Bogasari Flour Mills, which have generated new initiatives and solutions by Ocrim that has used all its state-of-the-art knowledge to achieve a



From right: Franciscus Welirang and Alberto Antolini

result above all expectations.

Once again, therefore, Ocrim have proven to be an attentive, reliable and innovative partner. Once again, it is chosen by one of the largest milling companies in the world to carry out cutting-edge investments. Once again, Ocrim is proud of its work that has enhanced both its and Bogasari Flour Mills’ know-how and experience, from a technological and plant engineering point of view.

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