



machinery

Bogasari Flour Mills chooses Ocrim's innovation for H, I & J Mills

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

Once again, therefore, Bogasari Flour Mills, one of the most renowned milling companies in the world, has chosen Ocrim to perform a complete retrofit & ex-



pansion 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 were originally supplied by Ocrim, for a capacity of 800 ton/24h for each line. The two phases involved, in the first instance were the retrofit and expansion of the cleaning lines and, secondly, the complete retrofit and expansion of the 3 milling lines with the requirement to take them to the maximum capacity possible within the same building footprint. Ocrim has obviously accepted the challenge and has transformed the three milling lines, reaching a daily capacity of 50% higher than the previous ones, i.e. for a capacity of 1200 tons/24h for each line. The new lines entail all new equipment of latest generation.

It has been a gamble both in researching the ideal layout and in optimizing spaces. 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 a plan-sifter with 10 channels also for a concrete optimization of the spaces.

It should be remembered that 40 years ago a similar cutting-edge work was carried out on the original



Franciscus Welirang, CEO of Bogasari Flour Mills, and Alberto Antolini, CEO of Ocrim, sign the customized roller mill (Ocrim).

project in order to obtain a *State of 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 possible to note that Ocrim has reserved the same attentions, as it has conceived the entire work through an innovative approach that regards the design, technical and technological aspects. Another important element of this new project is related 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 jeopardize 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 to intervene promptly in case of adjustments, and production optimization, 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 *mastermind*, was introduced, to reduce the production loss for maintenance operations, thus optimizing the relative planning. The modularity gives 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 art knowledge* to achieve a result above expectations.

Once again, therefore, Ocrim has 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 of which it is aware, thanks to the customer’s satisfaction, because, thanks to this project, it has enhanced both its own and Bogasari Flour Mills’ know-how and experience, from a technological and plant engineering point of view.

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