

# Product highlights

FROM FOCUSING ON HOW TO HELP SLASH ENERGY CONSUMPTION TO BETTER MANAGE HANDLING OF EXPENSIVE ADDITIVES, NEW AUXILIARY SOLUTIONS PACKAGES COME WITH INNOVATION IN SPADES



Moretto's MPK crystalliser is designed to meet quality standards for demanding applications

Moretto ([www.moretto.com](http://www.moretto.com)) has designed its new MPK crystalliser, producer from 50 dm<sup>3</sup> to 6,000 dm<sup>3</sup> in 12 sizes, to meet strict quality standards for demanding customer applications.

The geometric structure, the particular mixing and the process control allow the MPK crystalliser start up the production with the hopper filled up and directly with an amorphous material. The wing profile blades allow an effective mixing, particularly in the crystallisation zone. All the blades can be removed and are adaptable also after the first installation.

The plastic powder contained in regrind material presents a concern in the crystallisation process that

Moretto has addressed by including as standard a dust remover in the MPK unit that separates the plastic powder up to 10 micron and sets it down

in a suitable bin. In this way, it is possible to avoid a yellowing of the particles that, because of the different dimensions, can react degrading and compromising the quality of the material treated.

The MPK system also allows simple cleaning and

production change operations - the system's cone component can be opened in only two minutes, providing access to the full inside of the hopper.

Particular attention has been given to this operation, according to the international standards about operator safety.

Another product from Moretto is the Flowmatik system for multi-hopper equipment, which determines and supplies the correct quantity of technological airflow needed by the hoppers.

this technology is able to manage the system, intervening on the single hoppers and controlling the process variables, using only the necessary airflow calculated according to the material to produce and type of material. The automation counts on a close loop system. By means of an airflow measurement device, this system controls a modulating valve with the purpose to synchronize the effective airflow with that one calculated by the Flowmatik. Every hopper is equipped with this particular system for careful control of the air distribution in the single hoppers.

Flowmatik is connected to the dryer, therefore able to manage the airflow distribution and prevent the thermal stress of the polymers caused by over-drying. The best automation in the multi-material systems can be obtained with the flexible Flowmatik X Dryer technology coupling, by which the X Dryer is able to produce the exact quantity of airflow requested by the multi-hopper system.