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Improved Cutting Precision

New Range of Granulators with Tangential Cutting System

Piovan spa, S. Maria di Sala, Italy, has developed a new range of small, medium and large granulators, characterized by innovative technical and design-based features. The new range of Piovan high-efficiency granulators guarantees energy savings between 15% and 35% depending on the application.

To the manufacturer's product presentation <URL:<http://www.piovan.com/en/family/granulation/n-series-medium-large-size-granulators>>

All new machines are fitted with a unique tangential cutting system. The rotary blades are inclined with respect to the fixed blades and are positioned as close as possible to the geometric tangent of the cutting circle, therefore optimizing and improving cutting precision. In this way, high production capacities are achieved using smaller motors, with the additional benefit of minimizing dust production and heat generation. These features ensure a more regular cut and more dimensionally consistent regrind.

The cutting chamber is made from machined pieces, which are then assembled rather than being cast or welded. This design has enabled the construction of high-precision components that improve the efficiency of the cut and the quality of the ground product, while improving the life of the granulator, as worn pieces can be replaced.

Another distinctive feature of Piovan granulators is the possibility for customisation. Even the most basic versions can be modified to suit the specific needs of the process (e.g. blow moulding, extrusion, injection) and to comply with specific customer requests in terms of space, granulator loading and unloading requirements and protection of the operating environment.



The new N35-60 granulator features a tangential

cutting system and a 90° adjustable hopper (©

Piovan)

The N35-60 granulator is part of a family of three granulators designed specifically to process large pieces such as injection molded food containers, large bottles or cans (blow molding), tanks, bins, gardening products, toys (rotational molding process). These objects are normally quite large and light and can therefore bounce and be difficult to cut. It features a 90° adjustable hopper for four loading positions, ensuring that if fed by conveyor belt, the direction of the belt can always suit the granulator hopper inlet. Maintenance is therefore simplified and less operating space is required.

The new range of Piovan granulators is also fitted with energy efficient electrical and control systems: the entire transmission system has in fact been revised to achieve effective energy savings when used 24/7. Even if the granulator doesn't work continuously, it is possible to optimize peak loads to reduce energy consumption.

COMPANY PROFILE

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