

## **Crystallization and drying of plastics. Decontamination of PET. Recycling and Bulk Handling Solutions.**

**On the occasion of the CHINAPLAS 2018 in Shanghai, China, KREYENBORG Plant Technology, based in Senden, Germany, will be presenting their new products IR-CLEAN® and PET-BOOSTER® based on their well-known IRD Infrared Rotary Drum. In addition, the proven solutions for bulk material handling (silos, mixer, crammer feeders) for the Extrusion and recycling industry will be another key aspect on booth 2J33.**

Particular focus this year will be crystallization, drying and decontamination of various plastics as well as comprehensive solutions for bulk material handling processes, especially for Extrusion and the Recycling Industry.

**IRD Infrared Rotary Dryer:** The range of applications of the IRD is nearly unlimited. The IRD is used for crystallizing and drying virgin or regrind materials for a series of plastics, such as ABS, EVA, HDPE, PC, PEEK, PET, PLA, PPS, PTFE, TPE, and TPU. Through the use of the continuously functioning IRD, the need for the energy-intensive use of hot or dry air is completely eliminated, easily resulting in energy savings averaging 30%.

**PET-BOOSTER®:** This continuously operating system crystallizes and dries PET within 7-10 minutes. Focus here is specifically on applications in extrusion of PET sheet, films and fibres with degassing extruders (twin-screw, planetary- and multi-screw-extruders). Varying levels of input moisture that results in process variations in the extrusion process can be eliminated with the KREYENBORG PET-BOOSTER®.

**IR-CLEAN®:** Decontamination of Post-Consumer PET Flakes for Direct Food Contact Products in compliance with US FDA regulations. A new concept of the IRD system is producing clean flakes based on the general crystallization + drying process of the well-established IRD concept. In the IR-CLEAN® process the flakes are treated under permanent exchange of surface in combination with high temperatures, but without any vacuum systems. Different Challenge Tests show an incredible cleaning efficiency and it is confirmed by a FDA Letter of Non Objection. IR-CLEAN® systems are intended to be



used in combination with all extrusion concepts and are especially interesting as a very economic retrofit solution to existing PET-Sheet-lines.

**Bulk material handling:** Another well-established product line are the KREYENBORG solutions for Bulk material handling especially of bad flowing products like film flakes, fluff materials and fibres. Silos, mixer, conveying and crammer feeder systems will be presented as proven solutions for the recycling industry.



picture: IRD Infrared Dryer



Further Information:

[www.kreyenborg.com/en/produkte/plastic-and-chemical-ird-infrared-dryer/](http://www.kreyenborg.com/en/produkte/plastic-and-chemical-ird-infrared-dryer/)

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