



PRESS RELEASE FOR NGR NEXT GENERATION RECYCLINGMASCHINEN AND KUHNE GMBH 2016-10-13 FOR BUSINESS/PLASTICS WASTE TECHNOLOGY/MARKETS

From PET scrap to food-grade PET sheet in just one step

FELDKIRCHEN, AUSTRIA and SANKT AUGUSTIN, GERMANY: Next Generation Recyclingmaschinen GmbH (NGR) and KUHNE GmbH are collaborating on the production of systems for producing PET sheets from PET waste and achieving quality on par with sheets made from virgin materials.

The pair working together means good things for everyone else.

Cooperation between NGR and KUHNE is raising the level of quality for direct production of high-quality, food-grade PET sheets made of skeleton scrap, sheet production scrap or PET bottle flakes. The integrated system consists of a shredder-feeder-extruder combination for producing plastic melt, the P:REACT unit for improving the quality of PET and the sheet system from KUHNE for producing PET sheets with tightest tolerances. Both PET sheet producers and thermoformed part manufacturers will benefit from the result.

The integrated system design.

The first system part (shredder-feeder-extruder combination) can convert any form of input material into high-quality melt. This makes it possible to feed the unit with PET scrap available at low cost, such as punch scrap, sheet production scrap, bottle flakes or even fibers. The PET melt is decontaminated in P:REACT (for 100% food-contact in accordance with FDA regulations) and the IV value is set to the desired level. "This means all the material requirements are on hand for producing PET sheets that have tight IV tolerances on par with virgin material," explains Josef Hochreiter, CEO of NGR. For customer trials, a system from the P:SHEET series is available in NGR's technical test center.

"Initial tests have far exceeded our expectations for sheet quality," says Hubert Armbruster, Managing Director of KUHNE. "The newly provided option for producing high-

quality PET sheets from low-cost input materials, and eliminating one melt step in the process, have already ignited great interest among our customers," adds Armbruster.

P:REACT and the shredder-feeder-extruder combination are being presented at K2016 at NGR's booth in Hall 09, Booth 9C30. You can also find out more about P:SHEET at KUHNE's booth at K2016 in Hall 17, Booth 17A41.

Attachment: P:SHEET (Upcycling unit for the production of high-quality PET sheets out of PET scrap)

Next Generation Recyclingmaschinen GmbH facts and figures

Company profile:	Manufacturer of equipment for recycling thermoplastics
Number of employees:	Approximately 250 (NEXT GENERATION Group)
Subsidiaries:	Austria, Germany, USA, China, Malaysia
Sales:	Approximately 60 million euros (NEXT GENERATION Group)
Year founded:	1996
Homepage:	www.ngr.at

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KUHNE GmbH facts and figures

Company profile:	Manufacturer of extrusion equipment for plastics
Number of employees:	Approximately 240 (Kuhne Group)
Subsidiaries:	Germany
Sales:	Approximately 65 million euros (Kuhne Group)
Year founded:	1934
Homepage:	www.kuhne-group.com

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