

NGR

NEXT GENERATION

RECYCLINGMASCHINEN GMBH

PRESS INFORMATION 2011



NGR AT A GLANCE

Special focus. NGR Next Generation Recyclingmaschinen GmbH based in Feldkirchen an der Donau (Austria) is mainly a specialist in the production of machines for the recycling of post-industrial thermoplastics. But also for the recycling of post-consumer waste NGR offers interesting solutions.

Since 1996. The company was founded in 1996 and with its 50 employees has an annual turnover of some 15 million euros. Subsidiary branches are operated in Malaysia and the USA. The worldwide distribution net consists of 60 sales partners. The export share is 98 percent.

BEING PRESENT WORLDWIDE

A powerful presence... NGR is investing increasingly in market presence and is busy closing any gaps in its specialist exhibition presentation around the world.

...at specialist exhibitions. "Virtually every plastics processor needs a recycling solution for cost-effective and environmentally optimal production. This is why we decided to take part in this very important meeting-place event for the industry to draw attention to our know-how and all our new developments", Josef Hochreiter of the NGR management said.

ADVANTAGES ARE OBVIOUS

Specialist for the production of machines and solutions... Based on 4 basic types E:GRAN, A:GRAN, S:GRAN and X:GRAN recycling lines NGR offers its machine program for different output rates and different applications.

...for transforming plastic waste back into reusable raw material. Thanks to the thoroughly solution-oriented development approach of the NGR technician, NGR recycling machines produce a granulate that must virtually be labelled "virgin" and thus permits a relatively high admixture level.

Know how and optimum energy balance. High technology combined with low operation and energy costs is key for every NGR recycling line. As a state of the art company, NGR develops flexible solutions to suit customer requirements for processing the most difficult materials.

Low maintenance requirements. Special emphasis is placed above all on the highest ease of operation standards and lowest maintenance effort.

SIMPLY ONE STEP AHEAD

ONE-STEP technology. Most of the NGR recycling machines are running with the patented so named ONE-STEP technology. 3 process steps (shredding, feeding, extrusion) are combined into 1 machine. An additional pre-shredding or grinding is not necessary anymore.

Suitable for a wide range of applications... High-performance recycling machines from NGR process virtually all thermoplastic polymers in different forms, including the most difficult to shred materials.

...also for biopolymers. Due to the particular gentle processing even sensitive biopolymers can be recycled with NGR technology.

NGR MACHINE RANGE

E:GRAN. The E:GRAN 50 has been designed for inline recycling of thermoplastic film edge and bleed trims with a pelletizer output of 5 to 50 kg/h [10 to 110 lbs/h]. The special feeder intake design and the automatic extruder speed control characterize the E:GRAN recycling machine particularly.

A:GRAN. The A:GRAN 65 is the smallest UNIVERSAL-recycling system with an output rate from 20-100 kg/h [44-220 lbs/h]. Basically it is designed for continuous feeding in inline operation and can so fully be integrated into the film production process. However the efficient shredder and fine control for differing quantities of material greatly expand the range of machine applications also for offline operations.

L:GRAN. Adapted from the S:GRAN technology the new L:GRAN 65 recycling system has been developed as a so-called "light-version" in 2009. Above all the L:GRAN is designed for film edge trim applications for cast film production. Additionally, it is also very well applicable for processing raffia, woven big-bags and other film applications.

S:GRAN. The S:GRAN recycling machine series set the standard. The machine is applicable also for problematic materials and guarantees consistent high output rates from 140-800 kg/h [330 – 1.760 lbs/h]. With lowest operator influence the machine can be fed discontinuously. For inline or stand-alone operation S:GRAN is the most universal recycling machine.

NGR MACHINE RANGE

X:GRAN. This recycling machines series is the largest one. NGR X:GRAN machines are typically modular built. That means depending on the application the extruder, screen changer as well as the pelletizer can be varied. Due to our well-proven ONE STEP technology the X:GRAN guarantees and guarantees consistent high output rates from 900-2000 kg/h [2000 – 4400 lbs/h] also for problematic materials.

F:GRAN. On the basis of the S:GRAN and X:GRAN extruder concepts the F:GRAN recycling machines without a cutter have been designed for flakes applications. The pelletizer output ranges from 140 – 2000 kg/h [300 – 4400 lbs/h]. F:GRANs can be used also for post-consumer material.

HD Pelletizer. HD stands for the characteristic “hot die” cutting technique developed by NGR. The extrudate is cut fine by a rotating knife and then cooled in water. The plant is suitable for nearly all thermoplastics and permits highly cost effective operation, since the personnel requirement can be kept very low.

CORPORATE DATA

- Export share: 98 percent
- Number of employees: 70 staff
- Branches: Malaysia, USA
- Turnover 2010/2011: 19 million euros
- Established: 1996
- Homepage: www.ngr.at

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