

TECHNOLOGY

The water ring, hot die granulation device, including the water treatment unit and the centrifuge, is manufactured in stainless steel. The melt emerges from nozzles arranged in a circle on a wear-resistant perforated plate and is then granulated by the cutter blades.

The size of the granulate can be adjusted by changes to the speed of the cutters. The granulate hits the water ring, which is created in the granulation housing, cools and is then removed. Subsequently, the granulate is dewatered by a centrifuge and transported away. The process water returns to the stainless steel water tank via a screen and is then pumped into the granulator housing through a heat exchanger. A volume sensor on the water tank allows the automatic refilling of the process water.

APPLICATIONS

For all types of thermoplastic melts, except for PA 6.6, PET, and PPT melts with MFI > 100.

Type	Pellet output (kg/h) lbs/h	
HD 100	20 – 150	44 – 330
HD 200	100 – 250	220 – 550
HD 300	200 – 400	440 – 880
HD 500	300 – 600	660 – 1,320
HD 700	500 – 800	1,100 – 1,760
HD 1100	800 – 1.200	1,760 – 2,640
HD 1400	1.000 – 1.400	2,200 – 3,080
HD 2000	1.200 – 2.000	2,640 – 4,400

**We are equipped
for every recycling requirement!**

And this is our complete product programme. More information under www.ngr.at



**WE TAKE CARE
OF YOUR PLASTIC WASTE**

Headquarter: Next Generation Recyclingmaschinen GmbH
Gewerbepark 22, 4101 Feldkirchen, Austria
Phone +43 (0) 7233 70 107-0, Fax -2
info@ngr.at, www.ngr.at

USA/Canada: Next Generation Recycling Machines, Inc.
2965 Applewood Court, Atlanta, GA 30345, USA
Phone: +1-770-493-9461, Fax -3134, Mobile: +1-678-764-4844
info@ngr.at, www.ngr.at

The text and illustrations may contain requested and special features, which are only available at extra charge. The rights relating to technical changes and printing errors are retained.

HOT DIE GRANULATION (HD)

HD

- Further development of granulation technology
- For all types of thermoplastic melts, except for PA 6.6, PET, and PPT melts with MFI > 100
- In various sizes for outputs of 20 – 2.000 kg/h | 44 - 4,400 lbs/h



HD 300 – 700

www.marketing-tools.at

NGR-hot die-granulation has been further developed and apart from an excellent price-performance ratio, offers rapid cutter setting, constant pressure and a tangible reduction in employee workloads!

As determined by the system, during HD granulation (hot die), the melted plastic strands produced by the extruder are chopped into granulate by rotating cutting blades. The granulate is then cooled by a water ring and removed.

The new NGR-HD-granulation automatically maintains uniform blade pressure. The combination of a simple, rigid cutting head and a pneumatic, axially adjustable cutter shaft allowing precise adjustment by means of a manometer or an electronic pressure regulator (option) to a blade pressure that ensures minimum wear. Accordingly, no separate setting of the individual blades is required.



HD 100

ADVANTAGES

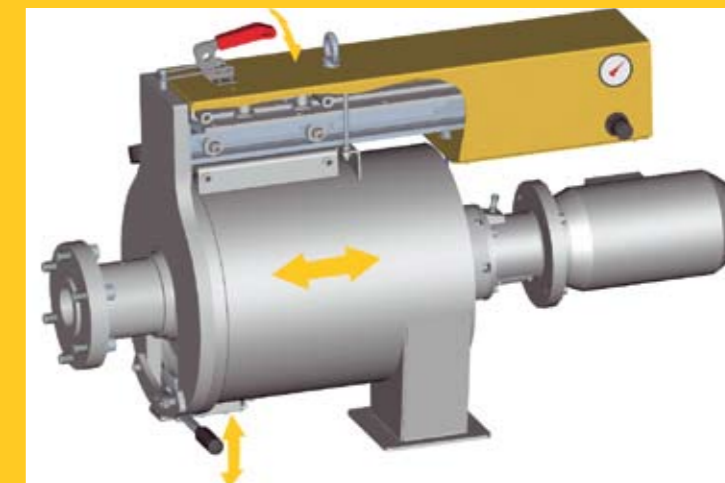
- Very simple and therefore rapid setting of the blades and pressure
- Alterations to blade pressure during operation
- Extremely long blade life
- Simple blade design
- Retention of the defined pressure even after cutting blade changes
- Especially easy manual opening and closing
- Small dimensions – particularly in the case of types with high outputs
- Tangible reductions in employee burdens and shorter plant downtimes due to the prolongation of the maintenance intervals and the shortening of servicing times
- Insensitivity to throughput changes



Pneumatic device for constant cutter blade pressure

OPTIONS

- Various perforated plate and cutter head designs for differing applications
- Blade wear indicator
- Electronic cutter blade adjustment



Smooth linear movement