Pelletizer Enhancements Boost Throughput and Pellet Quality

Nordson has embarked on a series of innovations that improve productivity and production control for its2sad line of Nordson® RE288® pelletizers, which range from laboratory type to large production systems with capacity up to 35,000 pounds per hour (pph). Nordson RE288® pelletizers, introducing new insights into the way the new system is made, have been successfully developed, which results in more uniform orientation and less warp age.

Automated Fine Removal Improves by 25% Packages Solve Special Problems

Nordson Kryenborg’s V-Type screen changer filter cartridge has replaced the traditional slotted screen changer filter and is now standard equipment on new sheet and bottle extruders that improve the performance of all Nordson RE288® systems.

Automated Fine Removal

Increased throughput and improved pellet quality results when using the new Nordson RE288® pelletizer. This is achieved through the following advanced features:

- Increased throughput of 25% is obtained with a new screen changer filter system. The filter is designed to remove fines down to 10 microns, while retaining the process fluid’s particle size. This results in a cleaner, more uniform product.
- The new screen changer filter system uses a new, patented design that reduces the number of screen changes and eliminates the need for manual screen changes. This results in increased efficiency and reduced maintenance costs.
- Improved fine removal results in a cleaner, more uniform product, which reduces the risk of contamination and increases the overall productivity of the extrusion process.

One of the key features of the Nordson RE288® pelletizer is its ability to handle a wide range of materials, from low to high viscosity. This enables the company to meet the diverse needs of its customers and create a more efficient, cost-effective production process.

Nordson RE288® pelletizers are designed to meet the demanding needs of the recycling industry. The company has successfully demonstrated that its pelletizers can handle a wide range of materials, from low to high viscosity, and can produce pellets with superior quality and consistency.

The Nordson RE288® pelletizer is an excellent choice for those looking to improve throughput and pellet quality. With its advanced features and exceptional performance, the Nordson RE288® pelletizer is a must-have for any recycling company looking to improve its operations and increase its productivity.

Nordson RE288® pelletizers are a testament to the company’s commitment to innovation and excellence. The company has successfully demonstrated that its pelletizers can handle a wide range of materials, from low to high viscosity, and can produce pellets with superior quality and consistency.

Conclusion

Nordson RE288® pelletizers are an excellent choice for those looking to improve throughput and pellet quality. With its advanced features and exceptional performance, the Nordson RE288® pelletizer is a must-have for any recycling company looking to improve its operations and increase its productivity.

The Nordson RE288® pelletizer is a testament to the company’s commitment to innovation and excellence. The company has successfully demonstrated that its pelletizers can handle a wide range of materials, from low to high viscosity, and can produce pellets with superior quality and consistency.
Sheet Die Breakthrough Reduces Changes from Hours to Minutes

A fundamentally new die capability is being introduced by Nordson Corp. with the SmartGap™ system. This system eliminates the need for time-consuming lip land changes in high-speed, thin-wall extrusion processes. Instead of lip land changes at speeds of 400 to 700 mm/minute, production stops can now be eliminated. Nordson SmartGap™ technology reduces process scrap and helps to control backpressure at smaller die sizes, reducing and eliminating the need for tool changes for minor changes in part configuration.

Nordson SmartGap™ technology eliminates the need for lip land changes. Instead of changing lip land, Nordson SmartGap™ utilizes a step-wise change in both lip land and lip gap.lip land change procedures are too time-consuming.

Prior to the development of the SmartGap™ system, the lip land was short, which restricted the range of gauge variation, or “travel,” requires a step-wise change in both lip land and lip gap. Adjustments to the flexible lip of the die while the machine is running can produce, and achieves these improvements.

SmartGap™ system reduces the thickness change process to as little as one minute at extrusion speeds of more than 200 mm/minute. The SmartGap™ system lengthens the change time from the traditional lip land to provide the most effective backpressure control for the smallest thickness changes to the die set. The lip land is automatically set so that the lip gap provides the most effective backpressure control for the smallest thickness changes to the die set.

Since launch in 2002, Nordson has developed the first real breakthrough in sheet die technology since the start of this century.”

Sm artGap™ is an improvement in sheet quality and consistency in the process.

Nordson SmartGap™ technology also increases production output.

The new plasticizing unit package takes advantage of design features in the Xaloy X8000™ Screw Encapsulation.

The new plasticizing unit package takes advantage of design features in the Xaloy X800® Barrel Inlay.

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Specialized Plasticizing Units Meet Today's Stringent Challenges in Injection Molding and Extrusion.

In the scene of the SmartGaps™ plasticizing unit, the system is designed for high-speed, high-flow applications. The system is engineered to handle the most demanding materials with ease and precision. Its modular design allows for easy configuration, ensuring that each application is unique and tailored to meet specific needs.

The scene shows a SmartGaps™ unit in action, processing materials at high speeds, with minimal wear and tear. The unit demonstrates the advantages of the product, including reduced maintenance and increased efficiency.

In the background, experts are discussing the benefits of using SmartGaps™ units, highlighting their ability to handle a wide range of materials and applications.

Challenges in Injection Molding and Extrusion.

The SmartGaps™ units offer a solution to the challenges faced in injection molding and extrusion processes.

- **Injection Molding:**
  - **Stringent Quality Standards:**
    - Ensures high-quality, consistent parts.
    - Meets the demands of the most rigorous applications.
  - **Reduced Cycle Times:**
    - Accelerates production, reducing costs.
  - **Improved Material Flow:**
    - Enhances processing efficiency, minimizing defects.

- **Extrusion:**
  - **Uniform Gap Control:**
    - Maintains consistent product dimensions.
    - Enhances process control and efficiency.
  - **Enhancedelsey:**
    - Reduces wear and tear on extrusion systems.
    - Extends system life and reduces maintenance costs.

The SmartGaps™ units are designed to address the complexities of molding and extrusion processes, ensuring success in a wide range of applications.
Challenges in Injection Molding and Extrusion.

To meet these challenges, Nordson has drawn on its extensive experience and expertise in material processing and quality assurance to develop solutions that help molders achieve higher productivity and quality. Nordson supplies a wide range of products and services, from specialized plasticizing units to complete extrusion and molding lines.

For example, the SmartGaps™ plasticizing system offers a unique approach to the challenge of changing lip gap and lip length. By allowing for step-wise changes in both lip gap and lip length, molders can make adjustments to the length of the die without having to shut down the machine. This helps to control back-pressure and eliminates the need for multiple adjustments, which can be time-consuming and labor-intensive.

Nordson supplies a wide range of products and services, including:

- **SmartGaps™** - A system for changing lip gap and lip length without shutting down the machine.
- **Specialized Plasticizing Units** - Designed specifically to meet the demands of today's most demanding processing applications.
- **Screen Changer Cartridge** - A modular system for easy maintenance and cleaning.
- **Polyethylene and Polypropylene Pelletizers** - Designed to meet the specific needs of molders.
- **Advanced Extrusion Equipment** - From single-screw, single-stage extruders to high-speed, multi-zone extruders.
- **Application Services** - Providing consultation and support to help molders optimize their processes.

Nordson is committed to providing solutions that help molders achieve higher productivity and quality, and to helping them meet the demands of today's most demanding processing applications.
Pelletizer Enhancements Boost Throughput and Pellet Quality

Nordson has embarked on a series of innovations that improve productivity and premium performance in its line of Nordson® Re-ZEAL® extruders, which range from laboratory type to industrial-sized systems with capacity up to 35,000 pounds per hour. Nordson® Re-ZEAL® introduces several new features in existing units that were designed with a focus on improving productivity and quality with minimal maintenance. The Master Line melt metering zone and the advanced back-up design provide greater throughput capability than ever before. These enhancements improve performance and reliability of extruders and provide a fast return on investment. The first high-speed extruder to feature these innovations, the Nordson® Re-ZEAL® 500, has already been delivered to a customer in the United States for packaging applications. The capabilities of Nordson® Re-ZEAL® extruders are available in two brands: Nordson® Re-ZEAL® and Nordson® Re-ZEAL® 2000. For more information, visit www.nordson.com.

Screen Changer Outputs Increase and Cuts Downs in Recycling

In two high-speed recycling applications, Nordson Corporation has made a significant contribution to the recycling industry by introducing a new line of automatic screw changers that reduce recycling operations and downtime. With these innovations, recycling centers can reduce the cost of recycling operations and improve the quality of recycled materials. The new screw changers provide a fast return on investment and improve production efficiency by reducing downtime. They are designed to handle a variety of plastics, including PET, HDPE, and LDPE, and are capable of processing up to 600 pounds per hour.

Nordson Polymer Processing Brands Make First Combined Exhibit at NPE, with Many Innovations and Global Thrust

Nordson will be the solution for Nordson’s customers with its introduction to the marketplace of the Americas, a global strategic expansion that will expand its offering of production-line components for extrusion, forming, coating, and metering and mixing applications.

Nordson’s vision is to be a global player in the plastics market, with a strong presence in all regions of the world. The company has made significant investments in research and development, which have led to the development of new products and technologies. The new Screw Changer Output Increases and Cuts Downs in Recycling exhibit will feature the latest innovations in automatic screw changers, providing customers with a comprehensive solution for their recycling needs.

Nordson’s commitment to innovation and customer satisfaction is evident in its continued focus on improving its products and technologies. The company is dedicated to delivering high-quality solutions that meet the needs of its customers around the world.

ASSESSIBLE SELF-CLEANING V-TYPE SCREEN CHANGER

New Nordson Screw Changers Cuts Down Recycling Time

Nordson’s new Screw Changers line of screw changers is designed to provide faster, more efficient recycling operations. The new Screw Changers reduce recycling time by up to 50%, resulting in increased productivity and reduced operational costs. The Screw Changers are available in two models, the Screw Changer 500 and the Screw Changer 600, and are designed to handle a wide range of plastics, including PET, HDPE, and LDPE. The Screw Changers feature a self-cleaning mechanism that reduces maintenance requirements and improves production efficiency. For more information, visit www.nordson.com.

NORDSON GENERATED A SERIES OF INNOVATIONS THAT IMPROVE PRODUCTIVITY AND PREMIUM PERFORMANCE IN ITS LINE OF NORDSON® RE-ZEAL® EXTRUDERS, WHICH RANGE FROM LABORATORY TYPE TO INDUSTRIAL-SIZED SYSTEMS WITH CAPACITY UP TO 35,000 POUNDS PER HOUR.
Nordson Corporation engineers, on Nordson Kreyenborg, Nordson BKG, Nordson click on “Polymer Processing” for information www.nordson.com
www.facebook.com/nordson
www.twitter.com/Nordson_Corporation
in more than 35 countries. Visit Nordson on 1954 and headquartered in Westlake, Ohio, end markets including packaging, nonwovens, and services. Nordson serves a wide variety of by application expertise and direct global sales

**EXTRAORDINARY TECHNOLOGIES**

**Screen Changer**

- Cut downs time in Recycling

**• PELLETIZERS: BKG System for**

**• PLASTICIZING UNITS: Xaloy**

**• SHEET EXTRUSION: Breakthrough**

**FIRST SHEET-DIE BREAKTHROUGH OF THE 2000s, called SmartGap™, lets manufacturers change thickness with unprecedented speed, extend thickness range, and enhance sheet quality. Photo shows die with SmartGap capability. See article on P. 2.**

**New and Concepts from Nordson’s Polymer Processing Systems**

Advances

Nordson has embarked on a series of innovations that improve productivity and product quality for its base industries of plastics, adhesives, coatings, and polymers. This year, Nordson BKG* *automated pelletizers, which range from laboratory size to full production systems with capacity up to 15,000 pounds per hour (7,600 kg/h). This new automated pelletizer system features the latest controls technology, allowing the equipment to run more efficiently and do more for less.**

Nordson Kreyenborg introduces a line of melt filtration systems that reduce downtime in extrusion, compounding and recycling. Details on production line components will be available through Nordson offices worldwide and can even be downloaded to your device. (See www.nordson.com)

Nordson’s screen changers have become household names for many industries, and the new and improved model offers more enhancements to keep pace with the continually changing market. The new model, called the “Nordson SmartScreen,” brings together the best of the past and the future, providing users with unmatched reliability and performance.

**Automated Fin Removal Improves by 25%**

A new, optional belt filter for the temperature-controlled water systems of Nordson BKG’s Flat-Die Line systems provides a savings in fine removal. The “Nordson Flat-Die Fine Removal System” improves the efficiency of removing fines from the water line by up to 25% compared to existing fine removal methods. This system reduces the amount of fines that need to be removed from the water line, resulting in less maintenance and improved product quality. The system works by using a unique combination of a filter cartridge and a brush wheel, resulting in fewer fines being carried through the system and into the product. This system is ideal for high-volume applications where fine removal is critical.

**New-Design Cutter-Hubs and Blade-Height Thru-Hole**

Nordson has redefined the cutter hubs and blade-height thru-hole systems to increase throughput, improve transportation of pellets to the extruder, and extend component life. The new design ensures a proper fit and improves the longevity of the system. The new cutter hub and blade-height thru-hole system provides increased productivity and improved product quality.

**AUTOMATED SCREEN CHANGER**

**Packages Solve Special Problems**

**ED IDE Mechanism**

In two high-throughput recycling in two high-throughput recycling installations in Europe, Nordson's melt filtration technology has played a key role in increasing productivity and enhancing pellet quality. The Nordson Remondini VG/Teen’s change has made recycling more efficient and cost-effective. Nordson’s Kreyenborg technology has been used in more than 35 countries, providing operators with a wide range of options for optimizing their processes.

**Nordson Advances**

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**Screener Changes Output and Cuts Downtime in Recycling**

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**Nordson Polymer Processing Brings Make First Combined Exhibit at NPE, with Many Innovations and Global Thrust**

Nordson will be the star attraction for the Nordson Corporation exhibition stand at the tradeshow, returning to the market with new and improved technologies, including a breakthrough Nordson Kreyenborg model for sheet extrusion, new and improved Pelletizer and Screen Changer designs that increase throughput in underdeveloped pelletizing, Nordson Safety and Nordson Design Concepts that feature an entirely new and improved Pelletizer and Screen Changer filter system that removes debris in a more efficient and effective manner.

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