

Prodigi™

Experience **Next Level Performance** in Die Automation
Patent Pending



nordsonpolymerprocessing.com | info@nordsonpolymerprocessing.com

Nordson

Unprecedented Speed & Reliability:

Are You Ready to Take the Reins?

Conventional thermal die bolts have long been proven to be an effective means of controlling the die lip gap to improve product thickness uniformity. The technology generally requires some manual pre-tuning of the die lip profile before the Automatic Profile Control (APC) system is engaged.

But what if this could be done faster... and safer?

The patent-pending EDI® Prodigy™ motorized lip actuator system allows for full remote control of the die lip gap articulation, removing the need for any direct-contact tuning by a technician.





Increase Set-up **Speed**

Once your desired process parameters are established within the Prodigy™ system, the saved recipe may be simply relaunched for your next production cycle.

The integrated programming automatically adjusts your die lips from their neutral (or last) position to the correct gauge profile configuration for the production run. The entire process is approximately 80% faster, taking only a few seconds compared to several minutes with traditional lip adjustment systems.



Gain Additional **Stroke**

The Prodigy™ system features a series of motorized actuators that control the adjustment bolts. These actuators have an extremely wide range of stroke, meaning the system can traverse the entire useful flexible lip travel range without the need for any manual intervention.

A more precise product can be accomplished by fine tuning the cross-web distribution with such lip adjustments. When the product's profile changes with high or low spots, Prodigy™ adjusts for optimal uniformity.



Achieve Optimal **Repeatability**

While repeatability is possible with traditional die adjustment systems, it's difficult to reach absolute consistency from production run to run. This is often due to a variety of factors that can impact how the thermal bolts react.

The Prodigy™ system operates with computer-based programming, designed to save the exact location of each bolt during a production run. By collecting and storing this data for future production runs, the exact bolt positions can be easily repeated.



Boost Your **Energy Savings**

The integrated Prodigy™ actuators operate at significantly lower temperatures than conventional, thermal expansion based auto-bolt translator blocks.

While standard thermal bolt heaters typically average 50% power demand during the entire production run, the Prodigy™ system uses little to no additional power after achieving steady state operation.



Improve Team **Safety**

The Prodigy™ system is designed to be fully operational from a remotely controlled panel. This removes the operator or technician from the hot zone near the die surfaces and melt stream components.

The Prodigy™ system is also safe for use in certain fluid coating applications, where solvents are being applied. The integrated motorized actuators are safe for use near solvent fumes and do not pose a risk for ignition.



Scan to Discover Your
Return on Investment

Production Line Integration

The Prodigy™ motorized lip actuator system may be easily integrated into any production lines where a new or retrofittable EDI® extrusion or fluid coating die is being installed.

The system is compatible with all major industry gauge scanning systems, regardless of their model or manufacturer.

For more details, please contact your local EDI® extrusion or fluid coating die systems representative.

Precision Technology Solutions.
Every day, Everywhere.

Extrusion & Fluid Coating Dies

USA

1450 Lakeland Drive
Chippewa Falls, WI 54729
Phone +1 715 726 1201

Europe, Middle East, & Africa

Hessenweg 3-5
48157 Muenster
Germany
Phone +49 251 265010

China

11 Building, 212 East Jiangtian Road
Songjiang
Shanghai 201613
Phone +86 21 57850918

Japan

Toshin Building 8F
1-5-21, Katsushima,
Shinagawa-ku
Tokyo 140-0012
Phone + 81 3 5762 2770

Melt Pumps, Melt Filters, and Valves

USA

1291 19th St Ln NW
Hickory, NC 28601
Phone + 1 828 326 9888

Europe, Middle East, & Africa

Hessenweg 3-5
48157 Muenster
Germany
Phone +49 251 265010

China

11 Building, 212 East Jiangtian Road
Songjiang
Shanghai 201613
Phone +86 21 57850918

Japan

Toshin Building 8F
1-5-21, Katsushima,
Shinagawa-ku
Tokyo 140-0012
Phone + 81 3 5762 2770

Pelletizing Systems

USA

1291 19th St Ln NW
Hickory, NC 28601
Phone + 1 828 326 9888

Europe, Middle East, & Africa

Hessenweg 3-5
48157 Muenster
Germany
Phone +49 251 265010

China

11 Building, 212 East Jiangtian Road
Songjiang
Shanghai 201613
Phone +86 21 57850918

Japan

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