



SAINT-GOBAIN

GRIT & GRIND

Newsletter 2025



DATA-DRIVEN
PROCESS EXCELLENCE
WITH NORTON GRINDSMART



Innovation Unleashed, Performance Perfected.

Here's a specially curated newsletter by Norton that brings you closer to the ideas shaping the world of abrasives and advanced manufacturing. Each edition explores innovation in action - from breakthrough abrasive technologies and Industry 4.0 solutions to expert insights and stories from the field.



Norton Grindsmart is an IIoT-enabled solution that combines machining science with real-time AI and machine learning for grinding and machining applications to optimize productivity, quality, and cost.

Dynamically adjust grinding parameters to extend tool life, minimize defects, and ensure process excellence through detailed data collection, analysis, and troubleshooting.

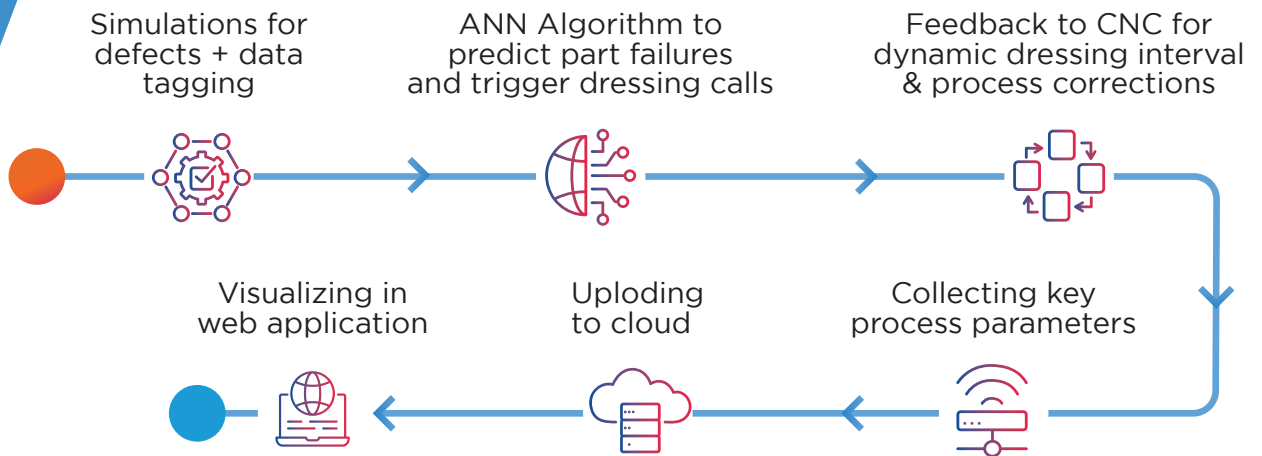
HOW CAN WE IMPROVE YOUR PRODUCTION PROCESSES?

We support our customers by combining machining expertise with Industry 4.0 technology. It is an intelligent system that helps optimize the grinding process and solve issues in real time.

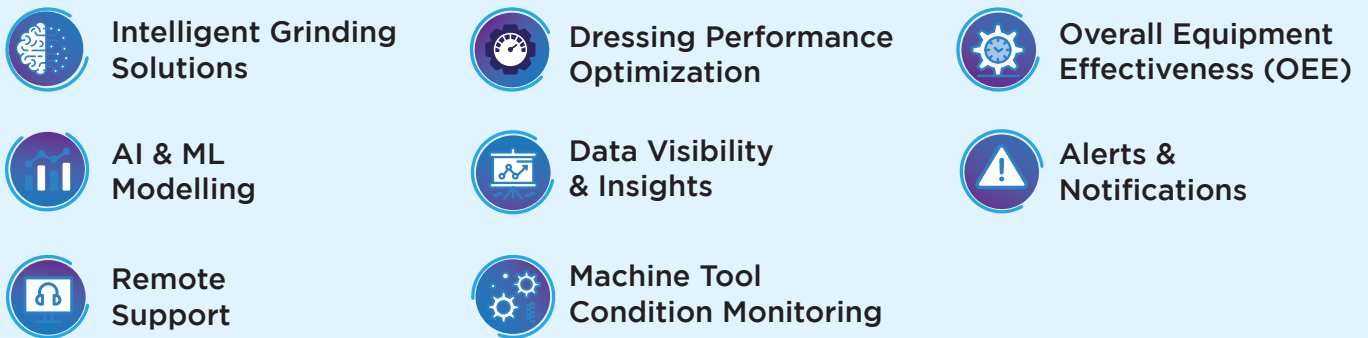
This increases machine productivity and efficiency.

Our artificial intelligence and machine learning models help predict component defects and equipment failures.

Our Process



Why Grind Smart?



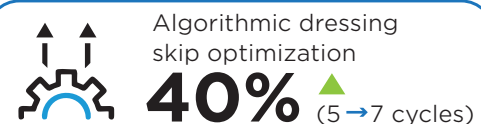
Case Study – Auto OEM

Evaluate & boost helical gear shaft grinding performance using Norton Grindsmart

The Challenges

- Fluctuating cycle time (ranging from 129s to 174s)
- Frequent dressing cycles (every 5 parts) = higher abrasive costs
- No real-time visibility on machine performance & downtime
- Underutilized machine capacity

The Results



Full visibility into OEE, downtime & hourly trends

Grinding Troubleshoot

Issue	Cause	Solution
Spirals on the workpiece surface	Loose workpiece centre	Check whether the chuck or centre is loose
	Insufficient lubrication on key way	Adjust or replace lubrication oil
Out of round work when plunge grinding	There is burr in the centre hole, which is out-of-round or loose or not deep enough	Check the centre hole
	The workpiece is too tight on centers	Adjust the tailstock spring
	Insufficient coolant flow	Select proper grinding wheel specification

Flashback: Highlights from the last G&G training event

Norton Grit & Grind is a specialized training program designed to empower professionals with advanced skills and in-depth knowledge of grinding technology and best practices.



Engage with Norton

Norton's team of experts partners with you at every stage — from process analysis to solution implementation. Discover how our advanced abrasive systems can help your plant achieve measurable gains in performance and consistency.

Share your feedback:

Scan the QR code to share your suggestion and future topics that you want us to cover.



OR

Write to us at:
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