



SAINT-GOBAIN

Transforming
surfaces
...and beyond

PRECISION DRESSING SOLUTIONS FOR OPTIMIZED GRINDING

ENGINEERED FOR SUPERIOR GRINDING PERFORMANCE

Norton roller dressers are engineered to deliver precision, performance, and productivity in grinding operations.

Adequate wheel conditioning enables higher material removal rates, maintaining profile accuracy, and increasing the number of parts per dress – reducing downtime and overall costs

With advanced engineering, a comprehensive product portfolio and manufacturing technologies, and the expertise of a long-established developer in diamond dressing technology, Norton provides solutions for every application.

By combining advanced diamond technologies with deep application expertise, we help customers to:



ACHIEVE EXCEPTIONAL PROFILE ACCURACY



INCREASE THROUGHPUT AND PRODUCTIVITY



IMPROVE PROCESS STABILITY AND REPEATABILITY



REDUCE SCRAP AND TOTAL OPERATING COSTS

WHY CHOOSE NORTON ROLLER DRESSERS



PRECISION YOU CAN RELY ON

Micron profile accuracy ensures consistent workpiece quality, even in the most demanding applications.



PERFORMANCE THAT DRIVES PRODUCTIVITY

Optimised dressing improves cycle times and supports higher machine output.



CONSISTENCY ACROSS EVERY CYCLE

Stable dressing conditions deliver repeatable grinding performance over time.



LOWER TOTAL COST OF OWNERSHIP

Long tool life, reconditioning capabilities, and process optimisation reduce cost per part.

**POWERED BY
UK**



Our dedicated manufacturing and service centre in **Staverton** is at the **heart of Norton roller dresser performance**. With fully integrated capabilities — from design and engineering to manufacturing and lifecycle services — Staverton enables us to control every critical parameter of the dressing process.

WHAT THIS MEANS FOR OUR CUSTOMERS

- Greater precision and accuracy
- Improved process reliability
- Consistent product quality
- Confidence in long-term performance

OUR ROLLER DRESSER SOLUTIONS

We offer three core technologies, each engineered to meet specific application needs.



REVERSE PLATED DRESSERS

BEST SUITED FOR:

High-precision and complex profiles

TECHNOLOGY & CAPABILITY

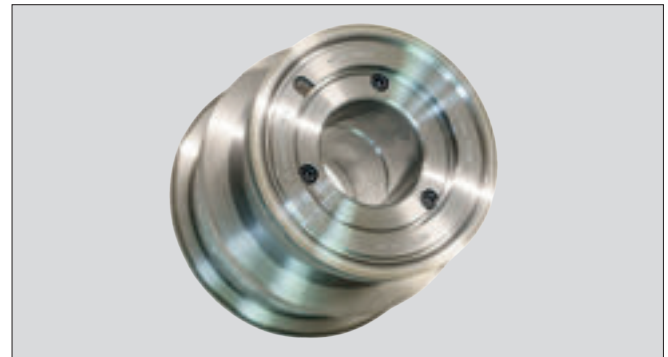
- Electroplated nickel bond
- Submicron accuracy on complex geometries
- Random diamond distribution with reinforcement
- Reconditioning capability

TECHNICAL HIGHLIGHTS

- Max Ø210mm | Diamond length 203mm | Body width 207mm
- Accuracy <3 microns | Radius down to R0.1mm
- Balancing to G0.4 | Bore tolerance H3
- Custom designs and multi-piece assemblies available

CUSTOMER VALUE

Delivers highly accurate dressing for critical applications, improving workpiece quality while reducing scrap and lifecycle costs.



INFILTRATED DRESSERS

BEST SUITED FOR:

High-load and stock removal applications

TECHNOLOGY & CAPABILITY

- Tungsten-based bond for high durability
- Random or hand-set diamonds
- Natural diamond grit and/or CVD (synthetic diamond) reinforcement
- Long lifetime and reconditioning capability

TECHNICAL HIGHLIGHTS

- Max Ø250mm | Diamond length 200mm | Body length 210mm
- Accuracy <10 microns | Radius down to R0.1mm
- Balancing to G0.4 | Bore tolerance H3
- Custom designs and multi-piece assemblies available

CUSTOMER VALUE

Provides robust, long-lasting performance in demanding environments, reducing tool changes and improving operational efficiency.

SELECTING THE RIGHT SOLUTION

If the application requires...	Recommended solution
Highest precision and complex profiles	Reverse Plated Dressers
Durability and high stock removal	Infiltrated Dressers
Flexibility and repeatability	CNC Dressers



CNC DRESSERS

BEST SUITED FOR:

Precision, repeatability, and complex forms

TECHNOLOGY & CAPABILITY

- Selected natural diamonds and CVD logs
- High-resistance bond for extended lifetime
- CNC-controlled profile generation

TECHNICAL HIGHLIGHTS

- Max $\varnothing 276\text{mm}$ | Minimum angle 24° | Radius down to $R0.1\text{mm}$
- Profile tolerance 0.002mm
- Balancing to $G0.4$ | Bore tolerance H3
- Custom designs and multi-piece assemblies available

CUSTOMER VALUE

Ensures high precision and repeatability across complex profiles, supporting stable and efficient production processes.



DESIGNED FOR TOTAL PROCESS PERFORMANCE

We go beyond the product to optimise the complete dressing and grinding system.

APPLICATION EXPERTISE

- Process analysis (FIS)
- Dressing parameter optimisation
- Diagnostics and continuous improvement

SYSTEM CAPABILITY

- Assembly to spindles and mandrels
- Balancing up to G0.4
- Tight tolerance control (H3)

Result: A fully optimised solution delivering improved surface finish, productivity, and reliability.

MAXIMISE VALUE ACROSS THE LIFECYCLE

Extend performance and reduce cost through:

- Reprofilng and relapping
- Profile inspection
- Spindle inspection and repair

This ensures consistent accuracy over time while avoiding non-conforming parts.



SUPPORTING SERVICES

Our engineering and service capabilities help customers maximise performance throughout the lifecycle of their dressing solutions.

- Precision assembly of dressers to spindles for optimal running accuracy and performance.
- Relapping dressers to extend product lifetime maintains the precision.
- Data-driven product design to optimise grinding processes and improve productivity.
- Spindle inspection, repair, and replacement services to maintain reliability and minimise downtime.

QUALITY AND STANDARDS

Manufactured to globally recognised standards:

- ISO 9001 (Quality Management)
- ISO 14001 (Environmental Management)

INTEGRATED ABRASIVE SOLUTIONS

Norton bonded abrasive wheels and Norton Winter superabrasive roller dressers are engineered to work together as a fully integrated system.

By optimising the interaction between wheel and dresser, we help customers achieve:

- Consistent grinding performance
- Improved process stability
- Extended tool life
- Reduced scrap and rework
- Lower machine downtime and operating costs

NORTON WINTER DRESSING UNIT

Designed for dressing diamond and cBN grinding wheels, the Norton Winter Dressing Unit provides a simple and reliable solution for maintaining wheel performance.

Supplied complete with a 37C60-MV SiC wheel and a 39C80-15V SiC wheel. Order No. 66260195821



REPLACEMENTS	FOR GRIT SIZES	ORDER NUMBER
Norton WINTER dressing unit		69014151167
39C60-MV	D64 - D126	66253051624 ¹¹
39C802-IV	≤ D64	66253052726 ¹¹
Accessories	1 set consisting of: 3 brake segments, 3 springs and 3 screws	66260274670 ¹¹

Only use dry; subsequent sharpening with a Norton WINTER stone, previously soaked in water, should be used as necessary

¹¹ Available ex stock

LET'S OPTIMISE YOUR GRINDING PERFORMANCE

With Norton roller dressers — and the expertise of our Staverton team — we help you achieve:

- Superior surface finish
- Increased productivity
- Greater process reliability

CONTACT YOUR LOCAL SALES REPRESENTATIVE TO DISCUSS YOUR APPLICATION OR ARRANGE A VISIT TO STAVERTON
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NORTON® SHAPING SUPERIOR SURFACE FINISH PERFORMANCE



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