



SAINT-GOBAIN

WINTER

Transforming
surfaces
...and beyond



STAVERTON'S ROLLER DRESSERS:

MANUFACTURING & SERVICE EXCELLENCE



STAVERTON: CENTRE OF EXCELLENCE FOR MANUFACTURING DIAMOND DRESSERS

Staverton is the world's leading production and service site for Norton Winter roller dressers. We meet the high-precision needs of industry and are expanding our production capabilities. Our expertise ranges from 3D design to the complete production of custom roller dressers for different applications.

Diamond Manufacturing History:

1893	Louis Meyer Van Moppes starts a diamond merchant business in London
1932	Peter Neven establishes Impregnated Diamond Products in Antwerp, to manufacture new abrasives for the optical and stone industries
1970s	VM and IDP were merged to become Van Moppes IDP Ltd, located in Tuffley
1997	Saint-Gobain acquires Van Moppes IDP as the third major brand in the new Abrasive branch strategy
2001	Van Moppes IDP was renamed Saint-Gobain Abrasives Ltd and the decision was made to relocate from Tuffley to Staverton



Thousands of roller dressers are produced every year



Highly skilled engineers, technicians and machinists



Production units, warehouse, laboratory, design department, and administration office

Five main markets:



Aerospace & Gas Turbine



Automotive Manufacturing



Bearings



Gears



Tooling

OUR PRODUCTS

Reverse Plated Dressers

- Electroplated nickel technology
- Submicron accuracy – on complex shapes and profiles
- Random diamond distribution and reinforcement
- The most cost-effective solution for complex rolls
- It can be reconditioned to extend the life of the dresser whilst avoiding production of non-conforming parts

Manufacturing Process:

A layer of nickel is electroplated onto the internal surface of a hollow cylindrical mould to hold a layer of diamonds firmly in place. A steel body is bonded in place, and the mould is removed, exposing the diamond surface.

As all the diamonds' cutting points lie directly on the mould surface, this produces the most accurate type of diamond dresser available.



Infiltrated Dressers

- Made with tungsten powders
- Random or hand-set diamond distribution
- Natural Diamond Grit and/or CVD (synthetic diamond) reinforcements
- It is more wear-resistant and has a longer lifetime
- More cost-effective for simple forms
- It can be reconditioned to extend the life of the dresser whilst avoiding production of non-conforming parts
- Ideal for large stock removal operations

Manufacturing Process:

Similar to that needed for reverse plating, a mould is created, and diamonds are fixed to the internal mould wall. A blend of hard metal powders is then packed inside the mould cavity, together with a steel core. Liquid metal is made to infiltrate the powder, consolidating it around the diamond layer. The metal matrix is very hard-wearing, creating the most durable truer type.

CNC Dressers

With CNC dressers, selected natural diamonds and CVD logs combined with our special and resistant bond provide accuracy and longer lifetime in various industries, including Bearing & Gears (worms, bevel and profile grinding), Automotive Manufacturing, Tools and Aerospace.





OUR TEAM OF EXPERTS

The Saint-Gobain Abrasives team at Staverton brings together an **exceptional synergy of engineers and machinists** dedicated to innovation and excellence in abrasive materials. This team of highly skilled professionals apply advanced technical skills to design, produce and optimise high-quality abrasive solutions to meet the most demanding customer requirements.

Our engineers, experts in product design and development, work closely with our machinists to ensure the accurate and efficient manufacture of abrasive tools. Thanks to their know-how, we can offer innovative products that combine **safety, quality, performance and durability**.

The Staverton team embodies Saint-Gobain Abrasives' commitment to constantly pushing the boundaries of technology. Whether it's **researching new solutions** or **continually improving our production processes**, our engineers and machinists contribute to the advancement of the abrasives industry every day.





WHY CHOOSE STAVERTON?

BENEFITS

- Provide the complete solution by assembling dressers to spindles, ensuring the tightest tolerances and running conditions
- Offer a comprehensive service that includes relapping, profile inspection, spindle inspection and repair. This service extends lifetime, guarantees profile form, and avoids extra costs associated with non-conformance.
- Data-based product design to optimise processes.
- Additional services include FIS process analysis, process monitoring and diagnostics (process review and optimisation).

BEST-IN-CLASS INVESTMENTS

- Saint-Gobain Abrasives' investment in its team and facilities at the Staverton plant fosters a collaborative environment where skilled engineers and machinists with advanced technical expertise work together to meet customer needs.
- The plant's **latest advanced technical equipment and state-of-the-art laboratory** make it a Centre of Excellence for roller dressers.
- The Staverton plant offers one of **the most comprehensive ranges of products** available from a single source, making it a key partner for leading engineering manufacturers worldwide who seek quality, service, and innovation.



BONDED WHEEL RE-WORKING CAPABILITIES

- In addition to offering diamond roller dressers, we also provide in-house re-work of bonded abrasive wheels (both resin and vitrified)
- Rectification and reshaping services include:
 - Recess creation or rectification*
 - Boss creation and rectification*
 - Complex shapes (plant approval may be necessary)

*Some restrictions apply depending on requirements

CERTIFICATES

Through stringent monitoring and audit systems, we maintain our reputation as a reliably safe and responsible producer of quality abrasives. We conform to **ISO 9001 and 14001**, a globally recognised standard for quality management and environmental management systems (EMS).



HOW TO ORDER



STEP 1



Contact the Customer Service Team in your country

STEP 2



Identify your requirements and receive a quotation from our engineers

STEP 3



Confirm your order to the Customer Service Team and begin the process

CONTACT US!

Customer Service email per country:

BENELUX:

manuela.kridane@saint-gobain.com

CZECH REPUBLIC:

sgacz.global@saint-gobain.com

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