



DISA and Wheelabrator together,
lowering your cost per part



DISA and Wheelabrator together have the strength, experience and innovation to shape industry in the future.

Norican Group is the parent company of DISA (moulding technology), Wheelabrator (surface preparation technology) and Wheelabrator Plus (surface preparation aftermarket services). Together, we have the strength, experience and innovation to shape industry in the future.

Our collective aim is to maximise our customers' profits.

About Norican Group



The world's leading provider of technology and services

Norican Group is the world's leading provider of technology and services to improve its customers' metallic parts. From the "parts formation" phase of a customers' operation (represented by DISA) through to the "parts preparation" phase for cleaning, strengthening and polishing of the part (delivered by Wheelabrator) the Norican Group stands ready to lower its customers' overall life cycle costs.

Both DISA and Wheelabrator represent over 100 years of expertise and experience, and collectively employ 2,300 people in 5 continents, with major operations in Canada, China, Czech Republic, Denmark, France, Germany, India, Poland, Switzerland, UK and USA.

Norican Group works with the industry's leading representatives and business partners in serving its customers throughout the world, providing complete global support throughout the life of the equipment and beyond.

Its employees represent the greatest assembly of expertise the industry has ever known. Its innovative products represent the broadest offer of any company in its industries. Everything Norican Group does focuses on maximising its customers' profits in one, or all, of the following areas:

- Lower operating costs
- Higher production throughput
- Longer part or component life

Shaping Industry

Shaping industry stands for:
engineering change, building sustainability, leading technology

DISA and Wheelabrator combined have the strength, experience and innovation to shape industry in the future. Delivering global innovation at the local level is how the Norican Group is shaping industry.

Norican — The Facts

Employees: 2,300
Head Office: Taastrup, Denmark

Global Experience and Qualifications

- More than 100 years of domestic operating experience in both Europe and North America
- 16,000 active customers in 100 countries
- Installed base of more than 32,500 machines
- ISO 9000 & 14000 certifications
- AS / EN 9100 and FAA certified
- Global market leader in Vertical Moulding, Wheelblast, and Airblast technologies

Emerging Market Presence

- More than 20 years of domestic operating experience in both China and India
- Sales and Service offices in all four BRIC countries
- 17,000 m² of combined production facilities
- Installed base of more than 2,500 machines
- Home to one third of the Group's employees
- Dedicated research and development company in India



Robert E. Joyce Jr, President and CEO

"DISA and Wheelabrator together have the greatest assembly of talent and the broadest sales coverage in the history of the moulding and surface preparation industries. We stand ready to serve our customers wherever and whenever they require our support. Ask any of our team members how we can help you increase your profitability."



DISA moulding, sand and core technology

DISA is the leading global provider of innovative foundry technology.

DISA develops and manufactures a complete range of metal casting production solutions for the ferrous and non-ferrous foundry industries. A long-standing tradition of innovation, reliability and commitment to its customers, results in DISA today enjoying the trust and loyalty of leading foundries all over the world.

Broadest Industry Offer

DISA's moulding product portfolio comprises vertical (DISAMATIC®), match plate (DISA MATCH) and horizontal (DISA FLEX) green sand moulding systems. For many customers the company provides complete integrated foundry lines which also include complete sand plants, conveyor systems, cooling drums, cleaning solutions, CIM modules and core machine plants.

Which type of moulding technology is best for you?

The choice of moulding technology generally comes down to size and geometrical complexity of the part being created versus the desired production volume.

Vertical moulding technology is predominately suited for high volume, high precision castings. With 1,450 vertical moulding machines installed in the market since the introduction of the DISAMATIC® in 1964, DISA remains the partner of choice for customers throughout the world. This installed base is second to none.

DISA MATCH match plate moulding machines are typically the preferred option for foundries desiring more flexibility in their offer. These foundries place an emphasis on quick changeover cycles to serve a broad customer base on a make-to-order basis. They compete on speed to market and the ability to produce a wide range of products.

DISA FLEX horizontal moulding machines tend to be the technology of choice for foundries producing lower volume, larger castings. These foundries often produce large, heavy and geometrically complex parts (boiler elements, engine blocks, gear boxes, etc.) on relatively low volume requirements.

DISA Global Services provides the assurance of maximum uptime and top-quality performance. It is committed to the fastest possible installation and start-up time, the shortest possible spare parts delivery time and the constant availability of qualified engineers to provide assistance whenever and wherever it is needed.



Peter Holm Larsen, President & COO,
DISA Industries

“What is it that sets DISA apart from our competitors? - To me it is our continuous goal to be the No 1 complete foundry supplier, - to constantly develop additional technology, making sure that we can supply any equipment for any demand that any customer may have - in time and on budget. Our success in establishing long-lasting relationships with our customers through our unparalleled global services concept adds further to our superiority in the foundry industry.”

Complete Moulding Line Expertise - A Tradition of Innovation

Throughout its long history in moulding technology, DISA has continuously developed and brought to market high-quality innovative solutions. DISA's machines have more up-time, lower maintenance costs and a higher degree of automation when compared to alternative offers.

- 1900 - year of establishment
- 97 current and active patent filings
- 2,200 installed moulding machines

DISA – The Facts

Employees:	725
Head Office:	Taastrup, Denmark
Technology Centres:	2
Manufacturing Centres:	4

Wheelabrator surface preparation technology

Wheelabrator is the world leader in surface preparation technology, offering a complete range of airblast, wheelblast and mass finishing solutions.



Andrew Carmichael, President and COO,
Wheelabrator Wheel and Air Technology

“Wheelabrator is unlike any other surface preparation supplier in the world. Our systems incorporate the best technologies specifically designed to suit the customer’s application, and we don’t leave until the installation is performing to - or beyond - expectations. We innovate every day to create the best solutions for our customers, based on the knowledge of 100 years of experience from six technology centres. Once your machine is installed, Wheelabrator Plus will service, maintain, upgrade and support it with spare parts to keep it running for optimum performance. As surface preparation experts, we also support non-Wheelabrator machines. If you are talking to us about your surface preparation challenges, then you can’t go wrong.”

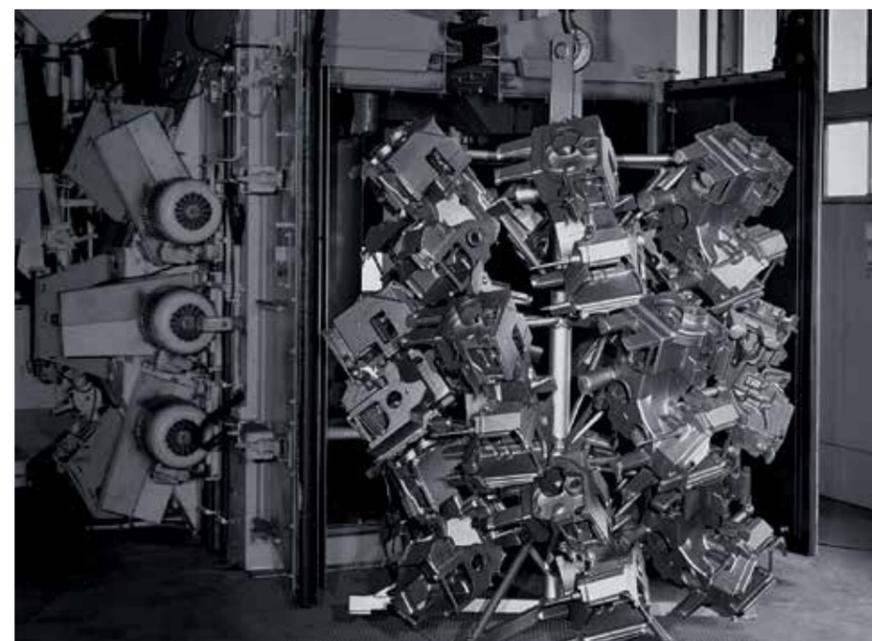
All three applications of surface preparation (the bringing of an abrasive into contact with a metal surface) are offered by Wheelabrator:

1. Centrifugal propulsion of the abrasive (wheelblast)
2. Pneumatic propulsion of the abrasive (airblast)
3. Immersion in the abrasive (mass or vibratory finishing)

Broadest Industry Offer

Wheelabrator offers a complete range of surface preparation equipment to leading companies in the foundry, automotive, aerospace, energy, marine, rail, construction and many other industries. Wheelabrator Group’s products and services have been used to improve productivity and profitability for over 100 years. With approximately 15,000 active customers in nearly 100 countries and an estimated 29,500 machines in the field, Wheelabrator continues to use the experience of having the largest installed base in the industry to deliver the best solution for the customer.

Wheelabrator’s approach to solving customers’ operating challenges is unique in the industry. Using insight gained from thousands of different applications across a variety of different industries, Wheelabrator’s technical experts in six Technology Centres work closely with customers to design specific solutions to meet their operating needs. This approach has been so well received by the market that approximately two-thirds of Wheelabrator’s surface preparation equipment sales are custom engineered to the precise specifications of the customer. The remaining third are standard items which incorporate the same level of Wheelabrator quality and reliability, but can be delivered more quickly at a competitive price.



Around the clock, around the globe support

Wheelabrator Plus offers a global aftermarket service to support existing surface preparation equipment by providing technical support, experienced service labour and spare parts and supply, delivered locally.

Operating from strategically located service centres and providing a global network of technicians and service engineers in almost 100 countries, we provide around the clock support for your original equipment

investment as well as valuable expertise in our services include:

- Equipment maintenance
- Equipment service
- Replacement parts
- Technical support
- Equipment modernisation and upgrades
- Equipment relocation
- Training
- Shot peening and vibratory finishing sub contract services

Tradition of Innovation

Since introducing the original wheelblast technology in 1932, Wheelabrator has committed itself to differentiating its offer through thought-leadership in design and manufacturing. Currently, Wheelabrator has over seventy patent filings with a dozen patents pending.

- 1908 year of establishment
- 71 current and active patent filings
- 29,500 installed surface preparation machines

Wheelabrator – The Facts

Employees:	1,500
Head Office:	Altrincham, UK
Technology Centres:	6
Manufacturing Centres:	6

Please note that shot peening and vibratory finishing services are offered globally but delivered from limited locations.

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