

# Contact us

Our regional head offices and Technology Centres:

## Canada

Wheelabrator Group Ltd  
Technology Center  
1219 Corporate Drive  
Burlington, Ontario L7L 5V5  
T: +1 (800) 845 8508  
T: +1 (905) 319 7930  
F: +1 (905) 319 7561  
E: info@wheelabratorgroup.com

## China

DISA Trading (Shanghai) Co. Ltd.  
Room A901-903,  
Far East International Plaza  
No.319 Xian Xia Road  
Shanghai 200051 – PR China  
T: +86 21 6113 1777  
F: +86 21 6113 1788  
E: disash@disagroup.com

## Denmark

DISA Industries A/S, Head Office  
Herlev Hovedgade 17  
DK-2730 Herlev  
T: +45 44 50 50 50  
F: +45 44 94 52 25  
E: disa.industries@disagroup.com

## France

Wheelabrator Group  
Technology Centre  
24, rue Camille Didier BP 39  
F-08001 Charleville-Mézières Cédex  
T: +33 324 33 63 21  
F: +33 324 37 39 37  
E: charleville@wheelabratorgroup.com

## Germany

DISA Industrieanlagen GmbH  
Gerhard-Ellrodt-Str. 26  
D-04249 Leipzig  
T: +49 341 4834 210  
F: +49 341 4834 220  
E: info.leipzig@disagroup.com

## Wheelabrator Group GmbH Technology Centre

Heinrich-Schlick-Strasse 2  
D-48629 Metelen  
T: +49 25 5688 0  
F: +49 25 5688 150  
E: kontakt@wheelabratorgroup.de

## India

DISA India Ltd.  
5TH Floor, Kushal Garden Arcade  
1A Peenya Industrial Area  
Peenya 2<sup>nd</sup> Phase  
Bangalore 560058  
T: +91 80 4020 1400-1404  
F: +91 80 2839 1661  
E: bangalore@noricangroup.com

## Switzerland

DISA Industrie AG  
(Wheelabrator)  
Kasernenstrasse 1  
CH-8184, Bachenbülach  
Switzerland  
T: +41 44 815 40 00  
F: +41 44 815 40 01  
E: zurich@wheelabratorgroup.com


## United Kingdom

Wheelabrator Group Ltd.  
41 Craven Road  
WA14 5HJ Altrincham, UK  
T: +44 161 928 6388  
F: +44 161 929 0381  
E: uk-info@wheelabratorgroup.co.uk



DISA and Wheelabrator together,  
lowering your cost per part



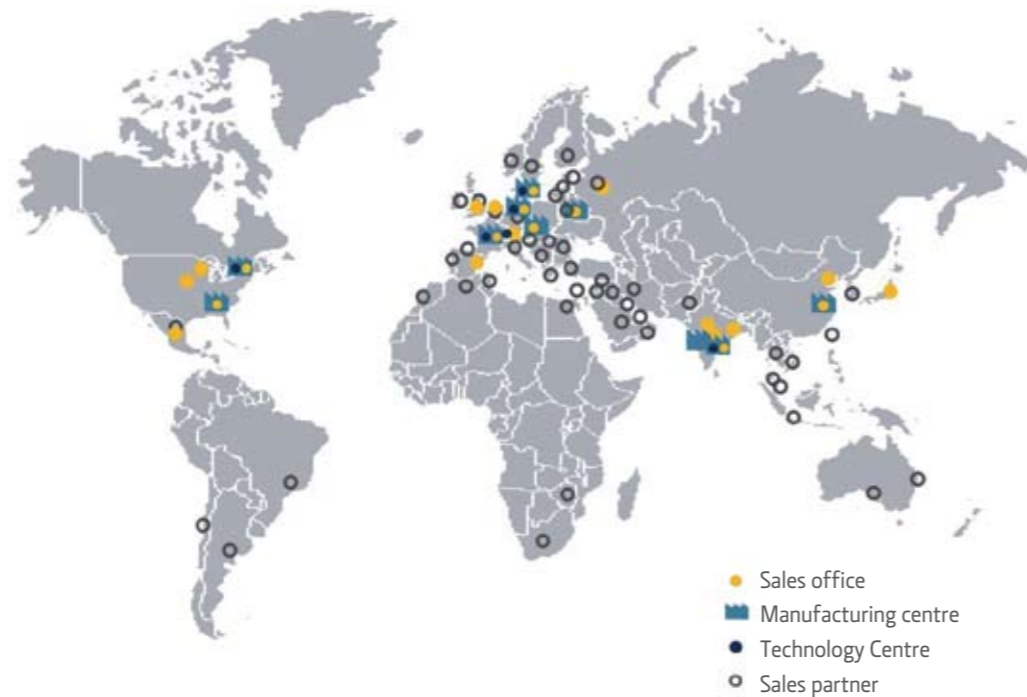


DISA and Wheelabrator together have the strength, experience and innovation to shape industry in the future.

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 2200 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: 2200  
 Turnover: € 272m  
 Head Office: Herlev, 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 52,000 machines
- ISO 9000 & 14000 certifications
- NADCAP, 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 m<sup>2</sup> 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

*"The merger of DISA and Wheelabrator in 2008 created 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.



### 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:	Herlev, Denmark
Technology Centres:	3
Manufacturing Centres:	4



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.”*

## 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

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)\*

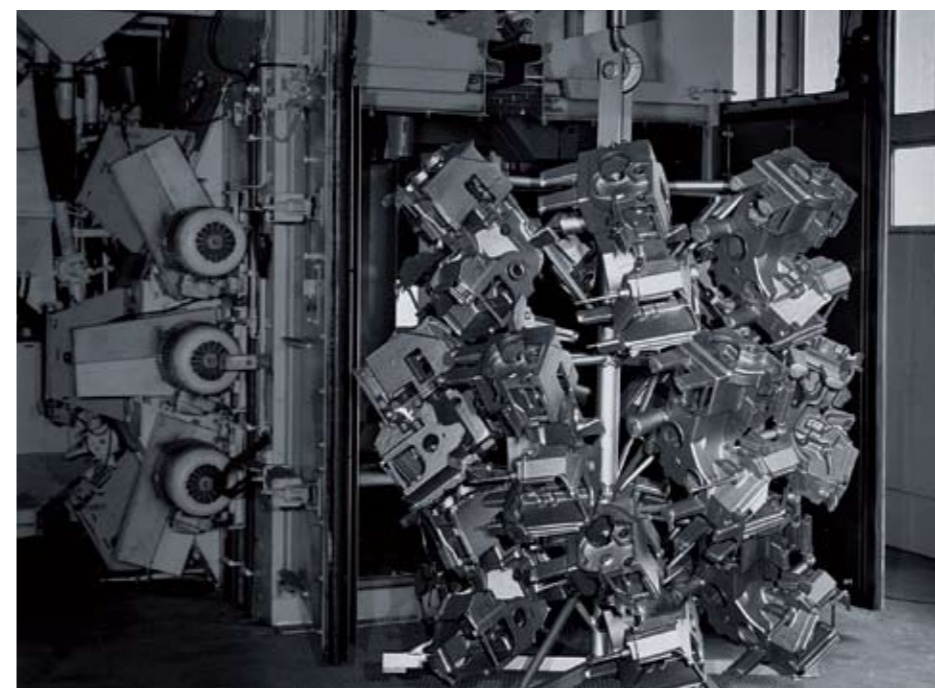
### Broadest Industry Offer

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 50,000 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 five 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.

\* Vibratory finishing is offered through the Wheelabrator Plus line of business, but is not available in all regions.



### 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
- 50000 installed surface preparation machines

### Wheelabrator – The Facts

Employees:	900
Head Office:	Altrincham, UK
Technology Centres:	5
Manufacturing Centres:	6

## Wheelabrator Plus global aftermarket service

Wheelabrator Plus is dedicated to providing complete surface preparation equipment support to customers around the globe.



Clifford Parr, President and COO,  
Wheelabrator Plus

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. We offer a one-stop shop with a wide variety of solutions, from equipment inspections to subcontract vibratory and shot peening services, all with the aim of meeting the needs of our customer on time, to the highest quality and to the agreed budget.

### Helping you to help your customers

Wheelabrator Plus continually strives to help you to profitably meet or even exceed your customers' requirements, to deliver the highest quality of both replacement parts and service, in the shortest time frame, at the most competitive prices.

Wheelabrator Plus upgrades all types of existing surface preparation equipment enabling you to achieve maximum performance and lengthen the return on your initial equipment investment. We inspect, maintain and supply parts for all surface preparation equipment from Wheelabrator and most other brands within the industry. Our equipment service and maintenance packages can be developed around your specific needs to ensure you achieve maximum productivity and suffer minimum equipment downtime. Wheelabrator Plus strives to look after you, to help you look after your customers.



### Around the clock, around the globe support

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 support of your changing requirements over time.

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

### Wheelabrator Plus — The Facts

Employees: 575  
Head Office: Altrincham, UK

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