

# THE GN WHEEL®

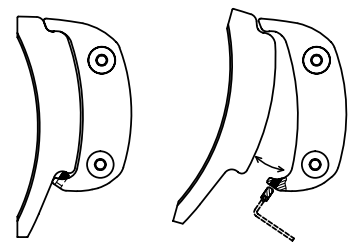
Built by innovators

Straaltechniek International, the innovator in shot blast applications, has designed a new shot blasting GN WHEEL® that is optimized compared to every other wheel in the industry. The GN WHEEL® is equipped with forward curved blades for high shot blasting efficiency and full width blade support. The innovative design improves the shot-flow, extending the lifespan of the wheel significantly. When eventually replacing the blades becomes a necessity, downtime is minimized thanks to the possibility to replace the blades easily and in situ.

## The GN WHEEL® is equipped with the latest TRIPLE F technology:

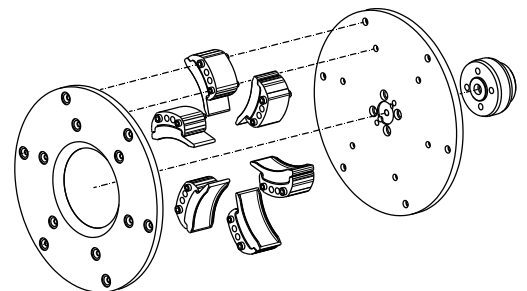
- Forward curved carbide blades
- Full width blade support (patent BE 2012/0244)
- Flow optimization

**In short, the costs of ownership for the GN WHEEL® are extremely low, while efficiency and uptime have never been so high.**



## Optimized performance compared to traditional wheels:

- Reduced stresses on blades (10 x less)
- Up to 70% more blasting efficiency
- Shot-flow optimization up to a factor 7
- Lifespan of support disks up to 3 times higher
- Lifespan of the blades is over 10 x longer than tool steel blades
- Lifespan of the blades is 30% longer than carbide blades of any competitor



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## Full width blade support

Traditional blade supports result in severe peak- and bending stresses within the blades. Therefore, Straaltechniek designed a revolutionary blade (patent BE 2012 / 0244) equipped with a support bracket over its entire width. As a consequence, stresses are reduced by a factor 10 compared to competitors' wheels. This pays off in unsurpassed uptime, saving considerable costs of ownership.

## Shot-flow optimization

The symmetrical sandwich construction (double-disc) of the GN WHEEL® channels the blasting abrasive efficiently through the wheel. While traditional wheels loose blasting power due to vortexing abrasives, power is optimized in the GN WHEEL® since connecting bolts are assembled within the revolutionary support brackets. This further reduces your cost of ownership.

The innovative design of the GN WHEEL® accounts for a shot-flow optimization up to a factor 7 compared to competitors' wheels. Energy efficiency is increased by 5% and the lifespan of support disks is increased by up to a factor 3 compared to competitors.

## Forward curved blades

Straaltechniek incorporated the beneficial principle of forward curved blades into its revolutionary blade support concept. By design, collision speeds are reduced at the entrance leading to decreased wear of both blades and abrasive. Along with the shot projection angle, this allows the projection speed to increase with 25 %, leading to a significant decrease in abrasive usage compared to wheels equipped with radial blades. The efficiency of the GN WHEEL® is up to 70% higher than traditional shot blasting wheels.

## Replacement of blades in situ

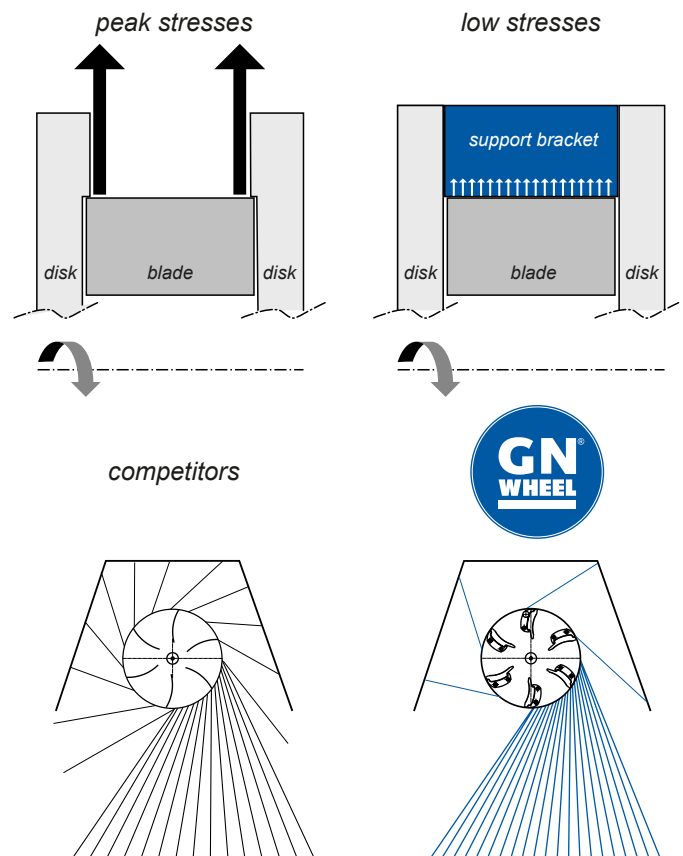
For your convenience, Straaltechniek simplified the overhaul process. Operators can replace the blades without having to disassemble and reassemble the wheel, minimizing downtime tremendously. Blasting can continue immediately after the blade has been replaced.

## Availability

The GN WHEEL® is available in diameters between 300 and 506 mm and fit to turbines of all current and future customers. The GN WHEEL® is tested under the most severe circumstances with angular GH grit with hardness above HRC 64.

## Adaptation and retrofitting

Requests for retrofitting to your specific requirements can be made through your representative.



Straaltechniek International Group.

E-mail: [info@straaltechniek.net](mailto:info@straaltechniek.net) Website: [www.straaltechnik.net](http://www.straaltechnik.net).

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