The SATURN HD wheel

The SATURN HD wheel is Wheelabrator’s blast wheel for the foundry and forge industry.

Founded on over 100 years of expertise in surface preparation, the SATURN HD blast wheel has been designed using the latest technology to provide ease of maintenance and high performance under the toughest conditions.

The SATURN HD wheel is available in a wide range of sizes and power to save you money by:

- Increasing productivity
- Reducing cycle times
- Improving efficiency
- Reducing abrasive
- Reducing maintenance times
- Decrease energy usage

The flexibility of the SATURN HD wheel ensures that it is adaptable for all Wheelabrator and non Wheelabrator wheel blast equipment.

Examples of applications in which the SATURN HD wheel has been used include:

- Tumblast equipment
- Table machines
- Hanger Type machines
- Horizontal Belt machines
- Plate machines
- Wire Mesh Belt machines

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www.wheelabratorgroup.com
The SATURN HD wheel
Technical specifications

Wheelabrator is dedicated to help you improve your profitability and to help you keep your customers happy.

Significantly increase productivity and efficiency by reducing cycle times and energy usage

- The new design control cage channel increases abrasive flow by up to 20%.
- The SATURN HD impellor has a 30% larger throat allowing more abrasive to be thrown whilst using less power.
- Higher abrasive velocities reduce cycle time.
- Long life convex blades (optional):
  - Achieve a better distribution of abrasive on large or batched workpieces.
  - Expand the hot spot to reduce the concentrated pattern impacting the cabinet between workpieces.
  - Lightweight parts utilize less energy.

Reduce maintenance time and costs

- Higher abrasive velocities allow you to use a smaller sized abrasive to significantly reduce wear.
- Wheelabrator’s precise balancing and machining processes produce extremely long life wear parts (including heavy duty motor, bearings and other cast parts).
- Full cast, heavy duty manganese housing with 3 piece liner as standard.
- Fabricated housing with 9pc liner package for grit applications.
- Blade set weight tolerances within 3 grams.
- Vibration and abrasive consumption are reduced by the exacting impellor casting process, which is concentric on 3 axes.
- Motor failures caused by abrasive intrusion are eliminated by the SATURN HD’s effective, integrated, frictionless hub seal.

Drive power range 15-55kW
All Saturn HD wheels have adjustable blast pattern ranges of 30°, 49°, 70° and 100°.

<table>
<thead>
<tr>
<th>SATURN HD Size</th>
<th>Diameter (mm)</th>
<th>Width (mm)</th>
<th>Abrasive Velocity (m/sec)</th>
<th>Convex Blade</th>
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