

SUPERABRASIVE WHEELS FOR THE FOUNDRY INDUSTRY





A DIRECT PLATED EXPERIENCE

- Increased parts per wheel
- All in one, easy to use grinding wheel
- Reduced friction for cooler grinding
- Cleaner work environment



GRIND MORE PARTS PER WHEEL THAN EVER BEFORE

With significantly higher stock removal rates, increased productivity and lower cost per part compared to other foundry wheels, Foundry X can finish up to 50 times more parts per wheel compared to bonded snagging wheels.

High-performance grit quality & bond technology allows maximum grain exposure for high material removal rate and longer wheel life. This allows more grinding time between wheel changes and reduced downtime.

When in use, Foundry X is cleaner, producing significantly less dust and odour than traditional wheels, for a healthier working environment.

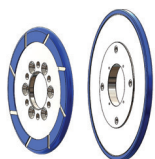
Compared to other Electroplated wheels in the market, Foundry X provides unique grit quality, best homogeneity of the plated layer, highest grit concentration on the main wear zone, resulting in outstanding lifetime and cooler grinding and cutting.

MADE-TO-ORDER AVAILABILITY

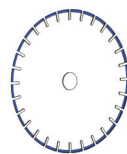
All Foundry X wheels are made to meet your precise requirements. They are available in a variety of profile shapes and wheel sizes to meet specific needs for grinding cast materials. Some common wheel shapes are shown below and additional shapes and sizes are available upon request. Since every application is unique, speak with our team of experts for recommendation. We design the best wheel for your application.



Snagging
1LL1, 9LL1, 14LL1, 1F+LL1



Small Wheels CNC
1FF1, 1FF1S, 1LL1, 1V1, 14LL1, DW



Cut-off Blades
1FF1, 1FF1R, 1FF1S, 1LL1

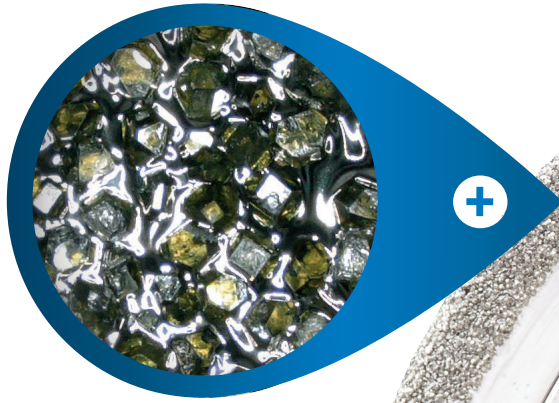


CNC Mounted Points
DW

To minimize waste and maximize profit, Norton Winter Foundry X wheels can be sent back and recoated after approval from our technical department. Competitor's wheels can be sent back. Contact your Norton Winter representative for more details.

ADVANTAGES OF FOUNDRY X WHEELS FOR AUTOMATED CELL GRINDING

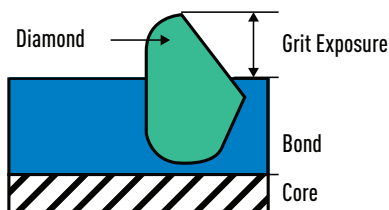
- Long life reduces wheel changes and downtime
- Consistent wheel dimensions and minimal wheel wear
- Accurate geometry reduces vibration
- Fixed wheel dimensions allow easier and faster programming



Foundry X (Topographical)
40% Grit Exposure

ADVANCED BOND TECHNOLOGY

Compared to other Electroplated wheels, Foundry X provides unique grit quality, best homogeneity of the plated layer, highest grit concentration on the main wear zone, resulting in outstanding lifetime and cooler grinding and cutting.



Electroplated wheels are composed of a steel body and a superabrasive single layer. The grits are embedded in a strong Nickel bond. Standard exposure of the grit is 40%.

Conventional grinding wheels can generate 10X the amount of dust compared to superabrasive wheels

IMPROVING ENVIRONMENT & SAFETY

Switching from conventional bonded to superabrasive wheels in a foundry environment offers significant improvements in environment and safety. The steel hub of the superabrasive wheel eliminates the risks of wheels breaking while in use. Superabrasive wheels minimise the dust generated by the traditional technology, and odours typically associated with foundry grinding are virtually eliminated.

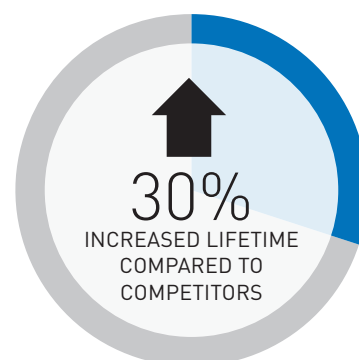




Case Study #1: CUTTING

Foundry X vs. Standard Electroplated wheel

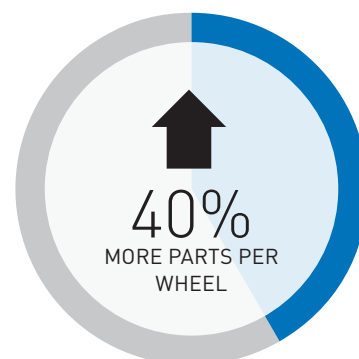
	COMPETITOR WHEEL	FOUNDRY X
MATERIAL	Gray Cast	Gray Cast
GRIT SIZE	D1001	FOUNDRY X
HARDNESS	67 HRC	67HRC
STOCK REMOVAL	32 mm ² /cut	32 mm ² /cut
WHEEL SPEED	72 m/s	72 m/s
RESULTS	30% increased lifetime compared to competitors	



Case Study #2: SNAGGING

Foundry X vs. Standard Electroplated wheel

	COMPETITOR WHEEL	FOUNDRY X
MATERIAL	Gray Cast	Gray Cast
GRIT SIZE	D850	FOUNDRY X
HARDNESS	67 HRC	67HRC
STOCK REMOVAL	3mm	3mm
WHEEL SPEED	50 m/s	50 m/s
FEED RATE	3 mm/s	3 mm/s
RESULTS	40% more parts per wheel	



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