



SAINT-GOBAIN

WINTER

Transforming
surfaces
...and beyond

SPRING X

NEW DIAMOND AND CBN ELECTROPLATED WHEELS FOR SPRING GRINDING



NEXT GENERATION SPRING GRINDING



Norton Winter **SpringX** wheels have been developed with specially selected **premium quality grains** suitable for **spring end grinding**. The superabrasive particles are held in place by a strong **nickel layer of bond** that provides superior wear resistance. This unique formulation allows SpringX to grind **millions of springs*** without burning and meet demands for **higher performance, less waste** and **longer product life**.



*depending on the part diameter

CUSTOMER BENEFITS:

- Improved grinding performance (up to 6 times more parts per wheel set)
- Up to 10 times longer product life*
- Consistent surface quality from the first to the last part
- Less abrasive waste*
- Fast re-plating solutions for the used wheels

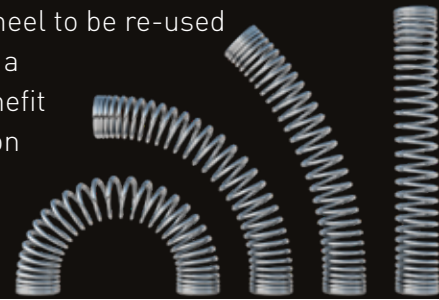
* Compared to conventional organic bonded spring grinding tools

Environmental benefits!

- ✓ Reusable core
- ✓ Less waste

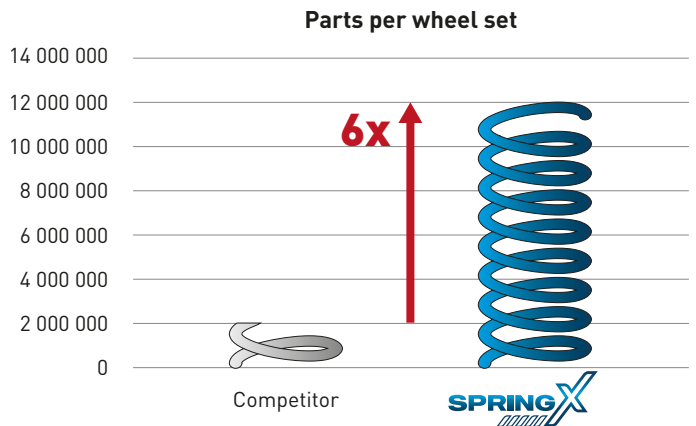
RE-PLATE SERVICE

Once the wheels are worn, the wheel's core can be re-plated with new cBN or Diamond grain in a continuous re-plating cycle, enabling the wheel to be re-used multiple times, a cost-saving benefit in the production cycle.



CASE STUDY - SPRING END GRINDING

| | |
|--------------------|---------------------------------------|
| APPLICATION | Spring end grinding |
| MATERIAL | Spring Carbon Steel & Stainless Steel |
| WORKPIECE | Spring |
| DIAMETER | 0,8 mm |
| REQUIRED ROUGHNESS | No burn |
| WHEEL SHAPE/DIM | 222 shape 450x150mm |
| MOS | 60m/s |
| MACHINE | OMD |
| COOLANT | Airflow |
| DRESSER | No dressing |
| COMPETITION | Competitor superabrasive wheel |
| SPRINGX SPEC | B301 |



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