



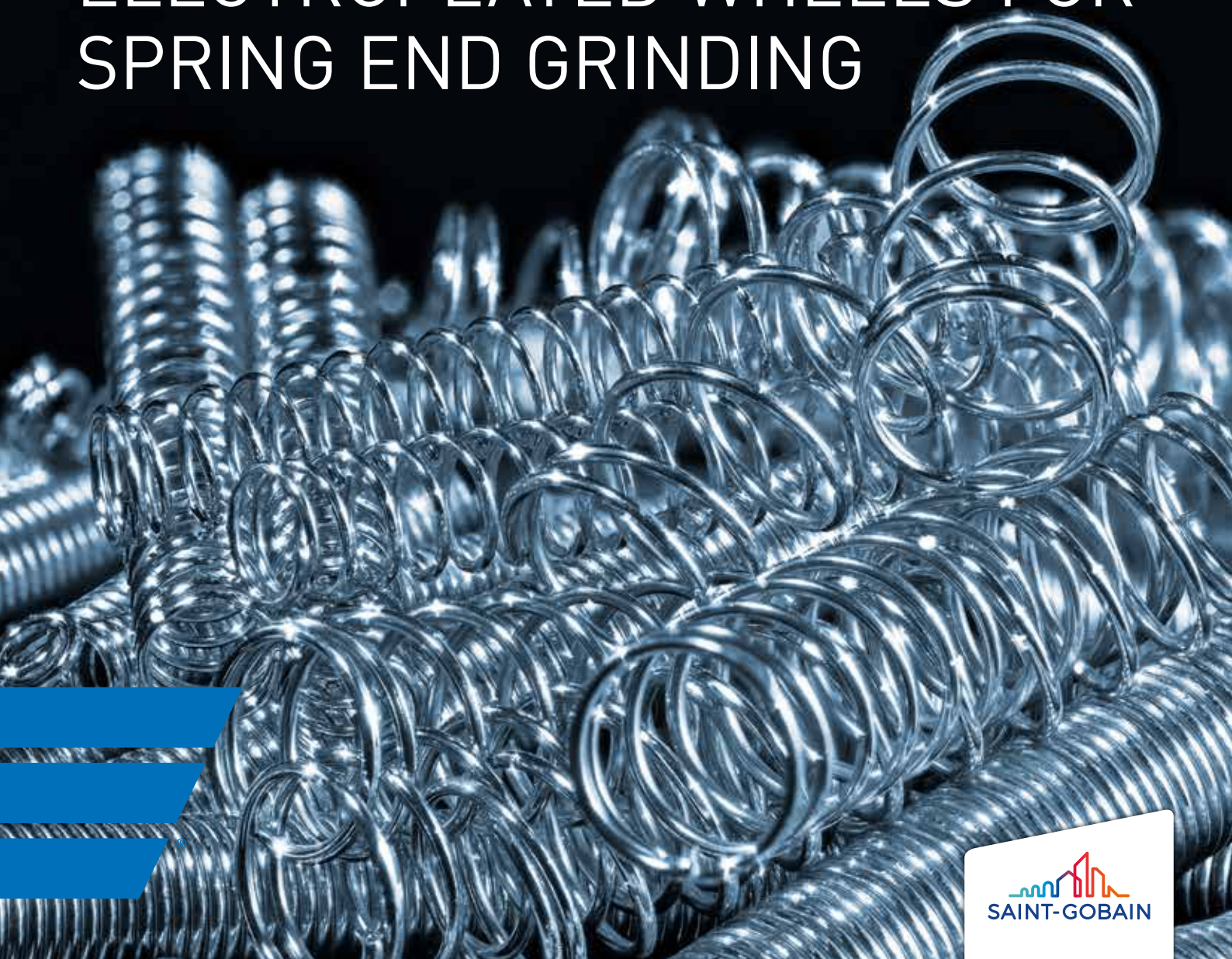
SAINT-GOBAIN

# WINTER

Transforming  
surfaces  
...and beyond

# SPRING X

## NEW DIAMOND AND CBN ELECTROPLATED WHEELS FOR SPRING END GRINDING



# NEXT GENERATION SPRING END 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 ductile **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

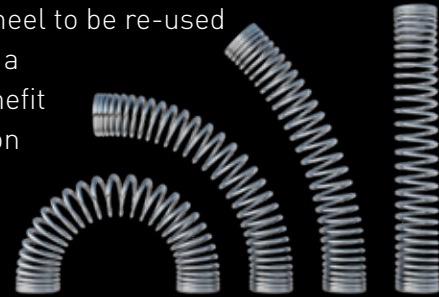
\* Compared to conventional organic bonded spring grinding tools

### Environmental benefits!

- ✓ Reusable core
- ✓ Less waste

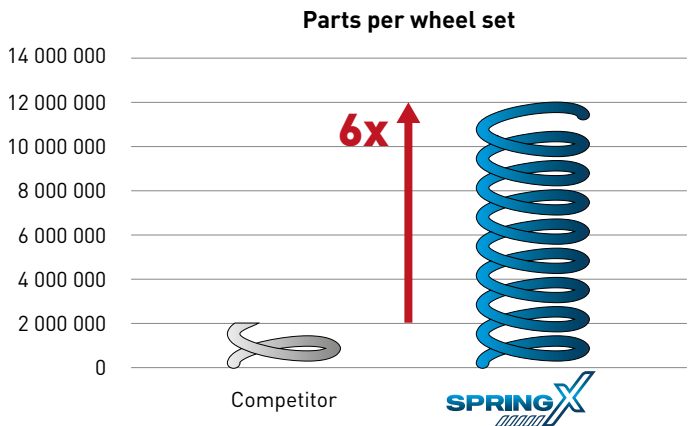
## RE-PLATE SERVICE

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 SURFACE QUALITY	No burn
WHEEL SHAPE/DIM	222 shape 450x150mm
MOS	60m/s
MACHINE	OMD
COOLING	Airflow
DRESSER	No dressing
COMPETITION	Competitor superabrasive wheel
SPRINGX SPEC	B301



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[www.saint-gobain-abrasives.com](http://www.saint-gobain-abrasives.com)

[www.youtube.com/NortonAbrasiveEMEA](http://www.youtube.com/NortonAbrasiveEMEA)

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