

INTRODUCING



A REVOLUTION IN SPRING GRINDING



Jowitt & Rodgers Co.
quality in performance



SYNTECH
SUPERABRASIVES

A JOWITT & RODGERS COMPANY

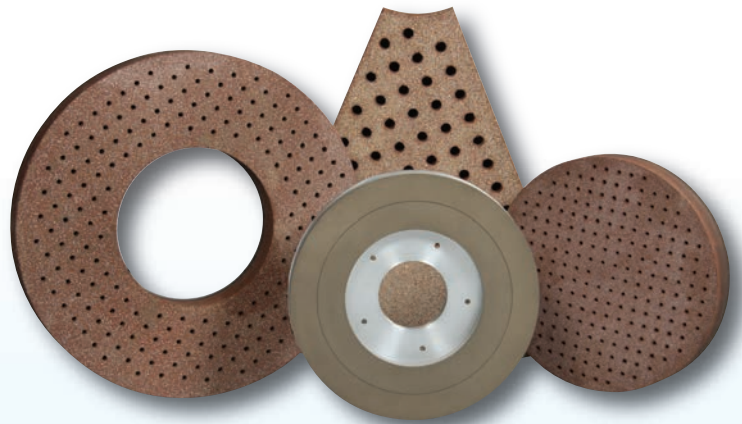


Dramatic New Technology Improves Performance and Increases Profits.

In our constant search to find new ways to improve service and bring added value to our customers, Jowitt & Rodgers has created what may well be a revolution in spring grinding. The exciting new technology we've developed has already proven its ability to improve quality, raise productivity, and increase profits!

This is not just another new grinding wheel. It's a technologically improved grinding wheel... one that consistently results in:

- Increased Wheel Life - Wheels last at least twice as long, with some reports of up to five times the life of other abrasives.
- Less Dressing - Dressing tools last longer, saving substantial amounts of both time and money.
- Cooler Cutting - There is less burn and fewer quality concerns caused by burnt springs.
- Higher Production Rates - Because these new wheels cut extremely cool, you can increase machine speed and improve production rates. Improved outputs as high as 50% have been reported.
- Quick Delivery - This new process substantially improves delivery time. The standard lead time for these wheels is two - three weeks.



Grinding Wheels For Every Spring.

Conventional Abrasive Grain

Least expensive
Good for light diameter wire < 2 mm
Good on smaller machines with low hp motors

Ceramic Grain

Moderately priced
Best for larger diameter wire and higher load springs
Best on machines with higher hp motors

Plated Super-Abrasive Grain

Great on light diameter wire < 2 mm
Higher production rates
Longer wheel life - Single layer of abrasive grain
Improved tolerances

Bonded Super-Abrasive Grain

Great on light to medium wire < 4 mm
Greatly extended wheel life - Increased abrasive depth
Increased production rates
Improved tolerances

Availability

Conventional & Ceramic Grain Wheels:

Sizes: 8" to 72" diameters

Super-Abrasive Wheels:

Sizes 8" to 26" diameters

The Results Are In - And They're Outstanding!

This remarkable new technology is especially designed for the spring industry, specifically 30" to 36" machines and hard to grind wire. Tests conducted at spring manufacturers throughout North America and Europe have been extremely impressive.

The following case studies are typical of what is being achieved using Jowitt & Rodgers new technology.

Case Study 1:

Wheel Size: 18" x 1" x 8" (5"rim)
Type 2A2T disc
Abrasive: CBN 80R75 BX25 1/4
Material: .092" Music Wire
Grinder: 18" Moyer in crash mode
Grind: 300"
Results: Wheel Life increased 7 x's over
Ceramic Grain wheel
Production Rate 2 x's
No down time for dressing
or truing

Note: Successful conversion to super-abrasives requires modifications to grinder setup and grinding parameters. Your J&R technical representative will be happy to assist with recommendations if needed.



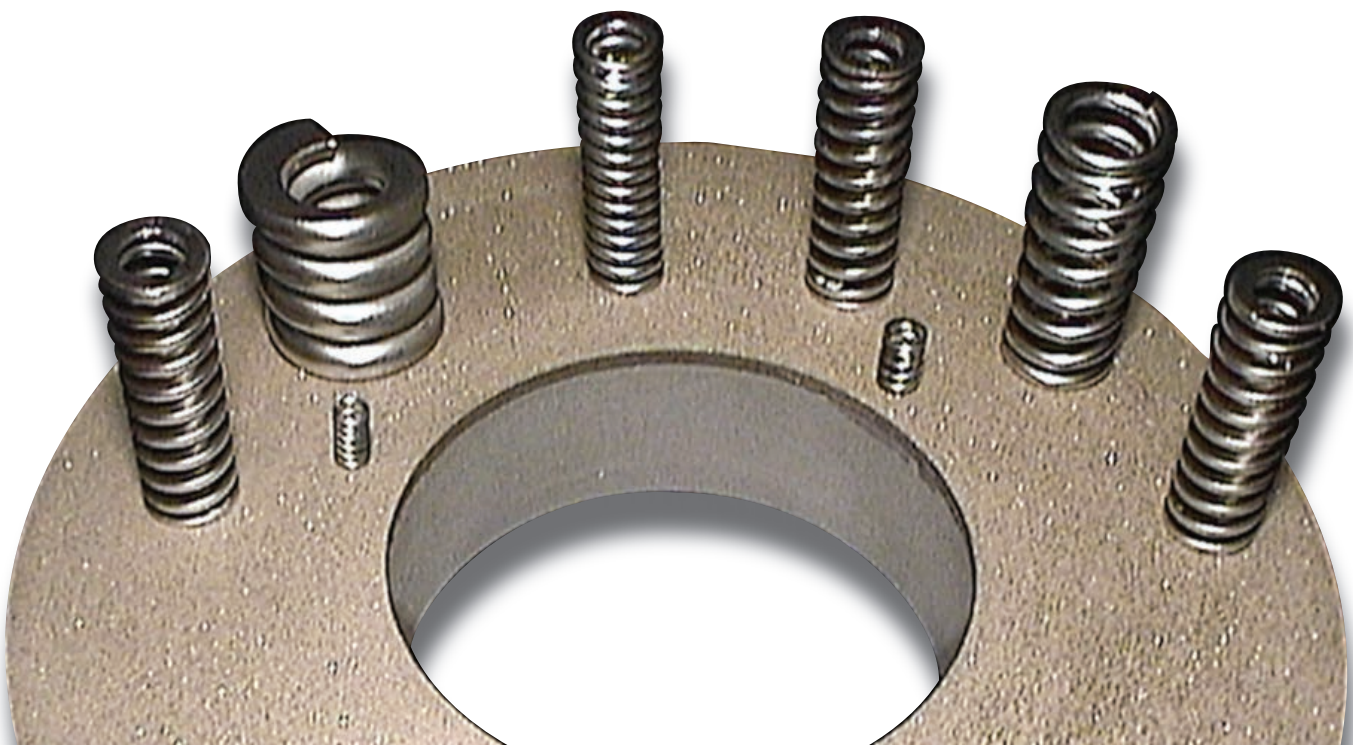
Case Study 2:

Test: Grinding a mix of stainless steel, oil tempered music wire and chrome silicon springs, .062" to .271" diameter wire, on a 26" Gardner disc grinder normally running magnesite bonded wheels.

Result: Wheel life is doubled and dress frequency is lowered.

Test: Grinding mixture of 303 stainless steel and chrome silicon wire on a 30" Gardner spring grinder normally running magnesite wheels.

Result: Wheel life is increased by over 150%, dress frequency is reduced by 20%.



It Took Jowitt & Rodgers' Expertise To Set The Revolution In Motion.

Customers of Jowitt & Rodgers are not surprised that our technical experts developed this remarkable new technology. They've seen our dedication and commitment first-hand.

Jowitt & Rodgers has long been recognized as a leading manufacturer of discs, segments and wheels for surface grinding. In a field where there is no substitute for quality and precision, Jowitt & Rodgers is consistently on the cutting edge.

Through a continuous process improvement program and a "one-at-a-time" production methodology, supported by statistical process control, we are assured that each disc, segment or wheel is manufactured correctly... to our client's exact specifications... the first time and every time!



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