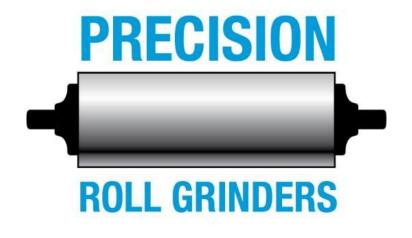
PRECISION ROLL GRINDERS



COMPANY OVERVIEW

WORLD-CLASS PROVIDER OF ROLL GRINDING AND SERVICING SOLUTIONS **ROLL GRINDERS**

GLOBAL PARTNERS

















55+ years Calender Roll Grinding Experience and 35+ years of Battery Roll Grinding Experience



We partner with world leading companies to provide value by maintaining critical equipment and process tolerances



FOUR CENTRAL LOCATIONS







Four locations central to planned battery production

Allentown, PA 6,000 m² (65,000 ft²)

Carrollton, GA 2,800 m² (30,000 ft²)

Lewisport, KY 2,800 m² (30,000 ft²)

Texarkana, AR 2,800 m² (30,000 ft²)



GRINDING CAPABILITY

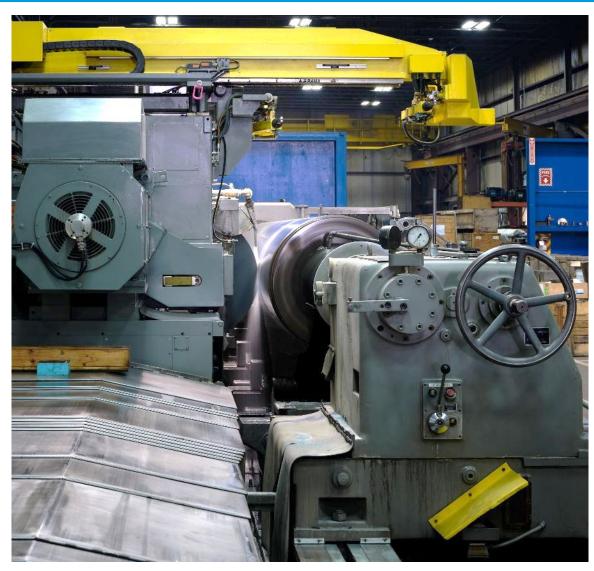


11 Roll Grinders

- Custom designed for PRG
- Maximum Length: 15.2m (600")
- Maximum Diameter: 2.6m (102")

Highly Trained Operators

- 5-year Apprenticeship Training Program
- Average 15+ Years of Service





WE GRIND TIGHT TOLERANCES

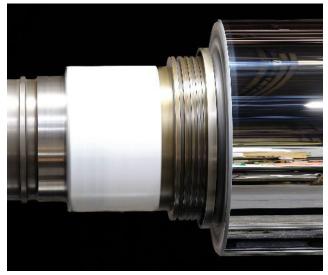


Industry	Diameter		Face Length		TIR Tolerance		Finish	
Battery	320mm	12.6"	280mm	11.0"	2μ	0.000080"	0.050µRa	2Ra
Battery	880mm	34.6"	1016mm	40.0"	1μ	0.000040"	0.100µRa	4Ra
Coating	305mm	12.0"	460mm	18.1"	1μ	0.000040"	0.150µRa	6Ra
Plastics	721mm	28.4"	2690mm	105.9"	2μ	0.000080"	0.020µRa	0.8Ra

Information Systems

- Database for Individual Rolls
- Roll Service History
- Data Permanently Maintained

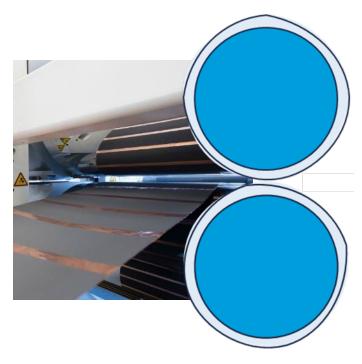






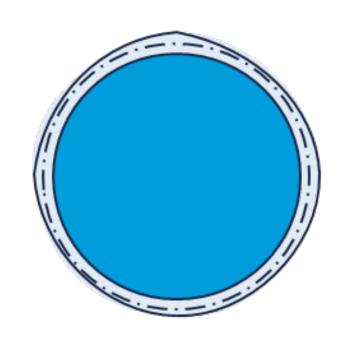
GRIND TO SAVE CHROME





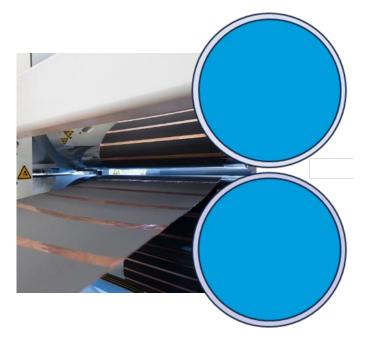


- Increased TIR
- Poor Concentricity
- Increased Electrode Variation



PRG Grind to Save

- Removes minimal material
- Does not require new chrome
- Reduces lead time to repair



PRG Grinds

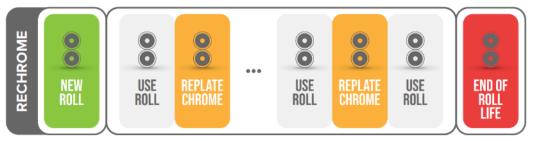
- Improve TIR
- Improve Concentricity
- Improve Electrode Variation

Grind to Save is Environmentally Friendly and Cost Competitive



EXTEND ROLL LIFE









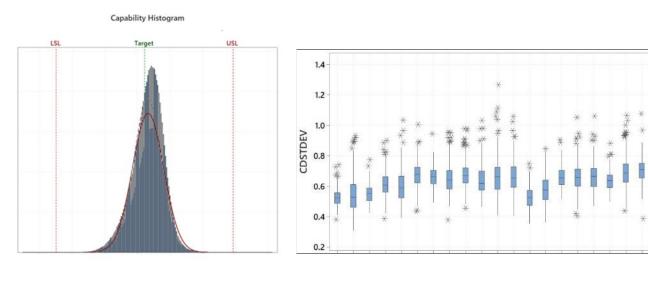
STATISTICAL ENGINEERING



PRG Ground Rolls

+0.0050 mm +0.0026 +0.0010 +0.0000





Rolls ground to a tolerance of 0.00004" or 1 micron

Over 2.4 million data points

- Achieved a Cpk of 2.01
- STDEV of less than 1 micron



BATTERY PRODUCTION BENEFITS



Electrode Calendering

- Improve caliper variation
- Grind to save chrome on calender rolls
- Increase calender roll life between grinds

Stacking

- Improve electrode thickness variation
- Improve overall stack thickness variation

Electrolyte Fill

- Improve compaction and active material porosity variation
- Improve wetting
- Improve fill time



PRG UNIQUE SERVICES



- Expedite Services
- Advanced Coatings (Carbide, Chrome)
- Precision Bearing Assembly
- Hot Grinding and 3D Grinding
- Superfinishing
- Diameter Match

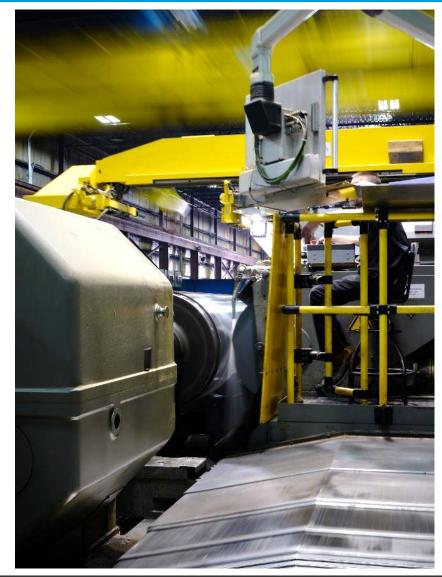




PRG SUMMARY



- 55+ years grinding experience
- 35+ years adding value to Battery manufacturing
- Four locations central to planned Battery production
- Statistical Engineering support
- Grind to Save chrome
- Hot Grinding and 3D Grinding
- Expedite services





THANK YOU



ROLL GRINDERS

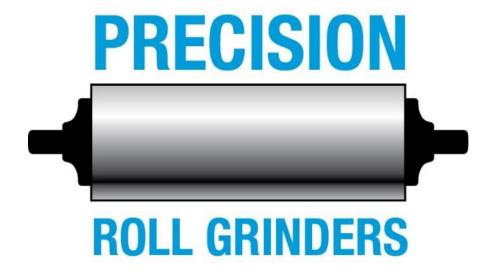














CONTACT US

If you have questions or would like to request a quote, give us a call or contact us through our website.

P: +1 610 395 6966 Precisionrollgrinders.com