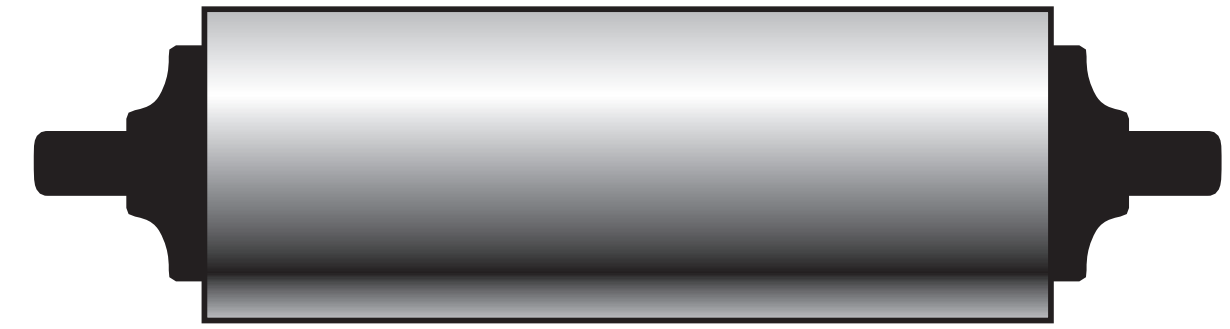


PAPER MACHINE PRESS ROLLS NEED PRECISION GRINDING AND SERVICING

PRECISION



ROLL GRINDERS

Over 50 years of value-added service

**WEBINAR
SERIES**

precisionrollgrinders.com

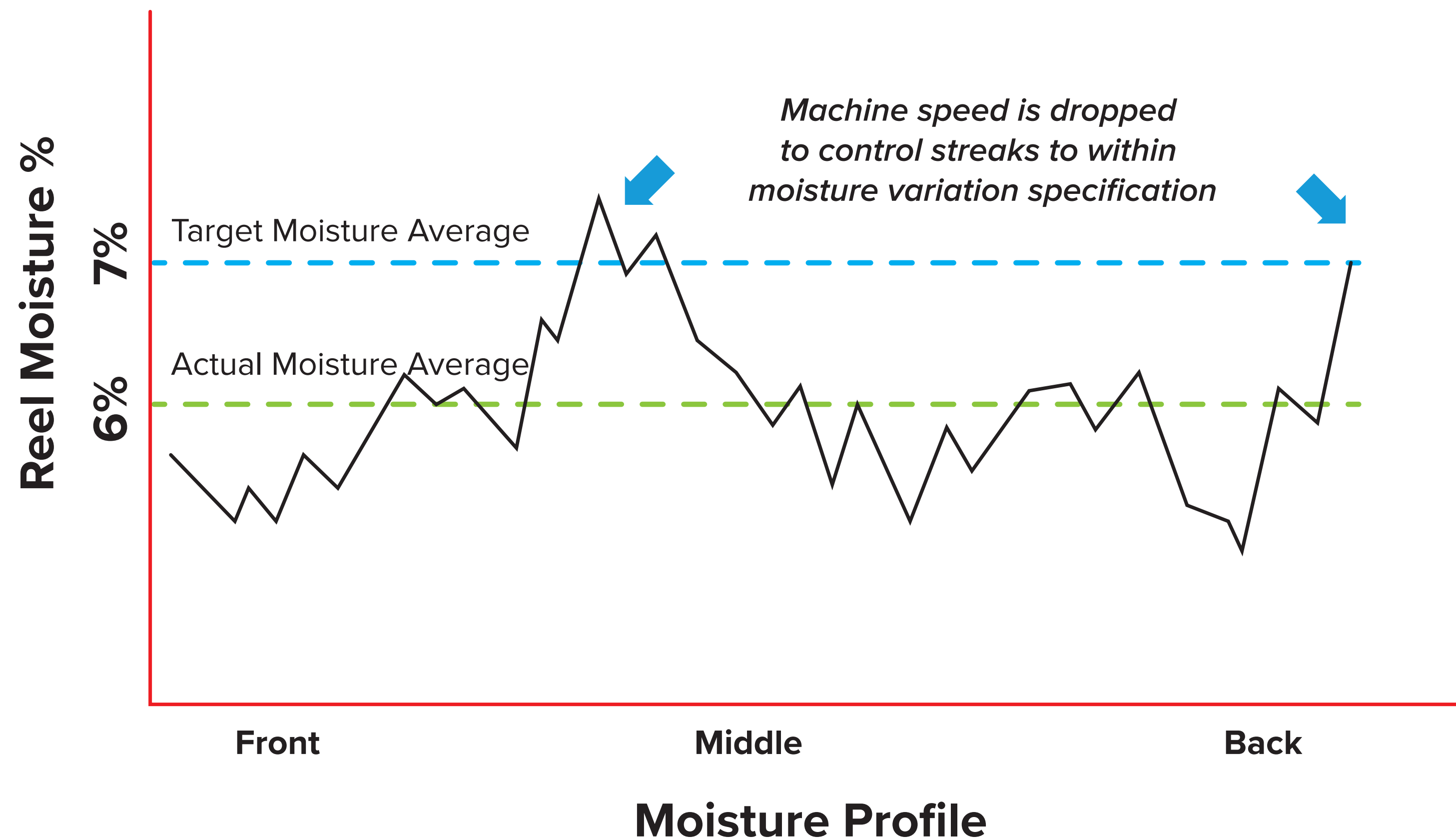
PRECISION ROLLS OPTIMIZE YOUR PRESS SECTION

CORRECTING PRESS ROLL SHAPE (CROWN AND T.I.R.) WITH PRECISION GRINDING:

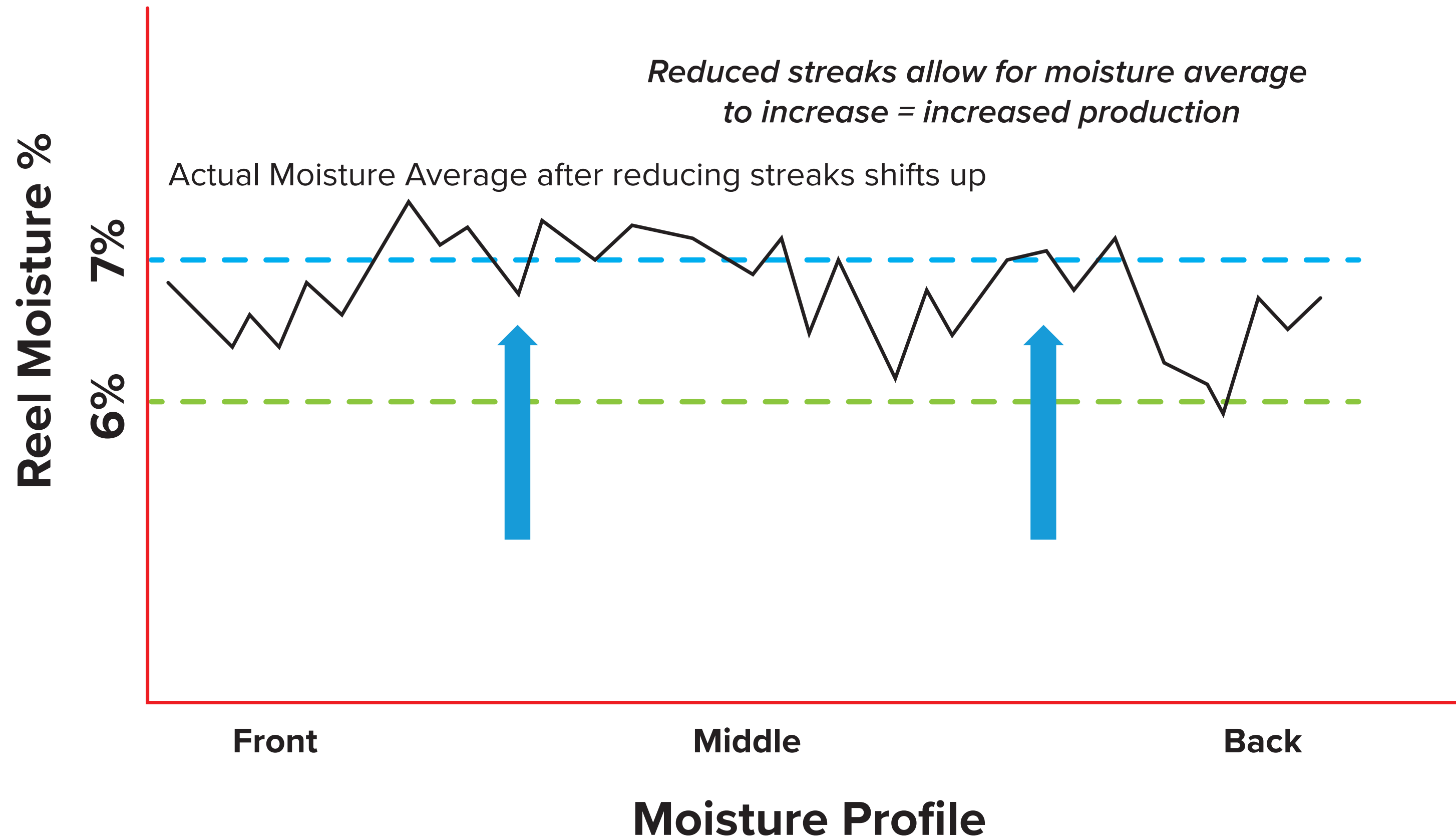
- Reduction or elimination of moisture streaks
- Reduction or elimination of moisture profile “frowns and smiles”
- Improvement of poor sheet edges



THE COST OF PRESS SECTION MOISTURE STREAKS

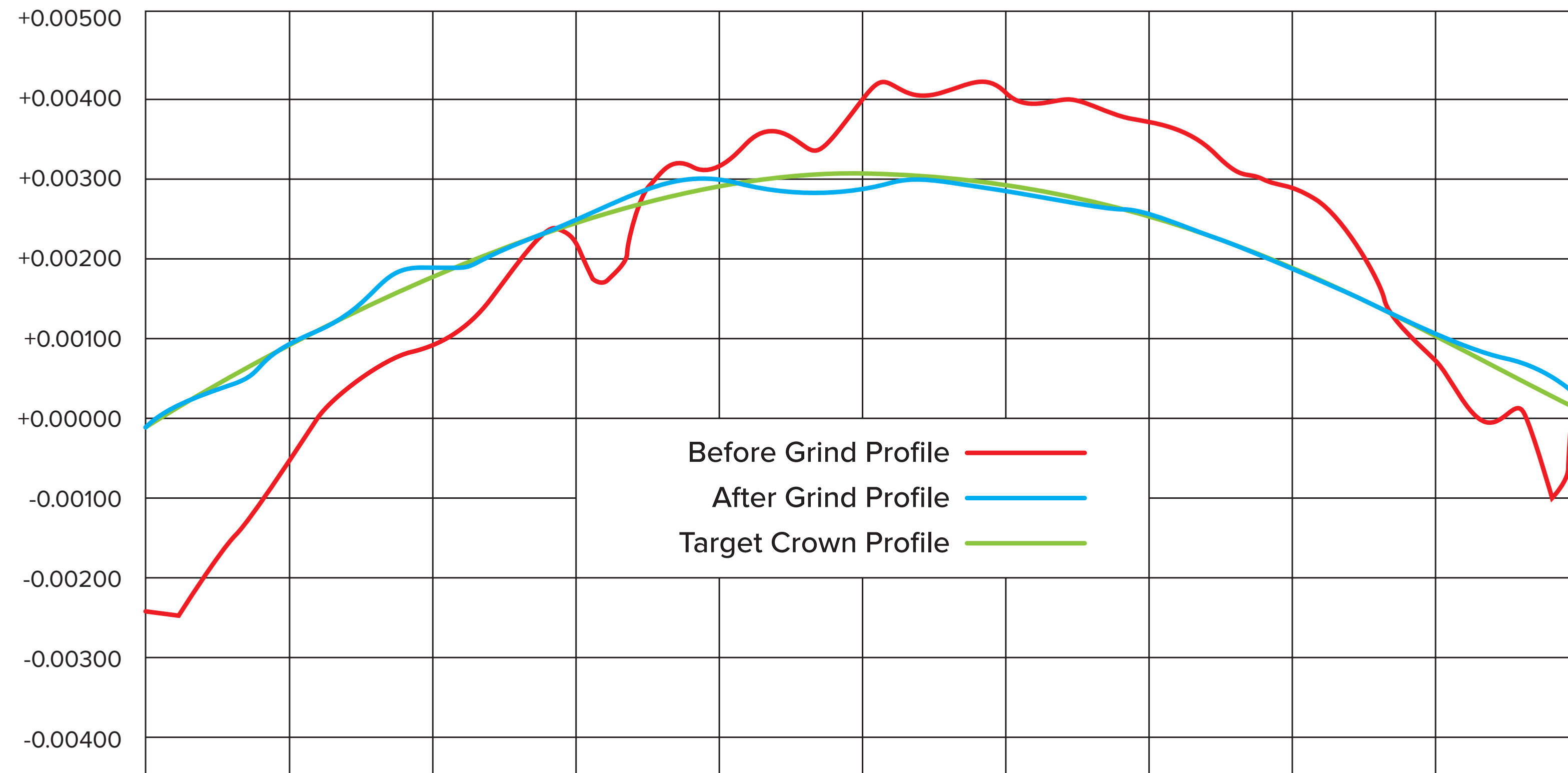


REDUCED MOISTURE STREAKS = INCREASED PRODUCTION

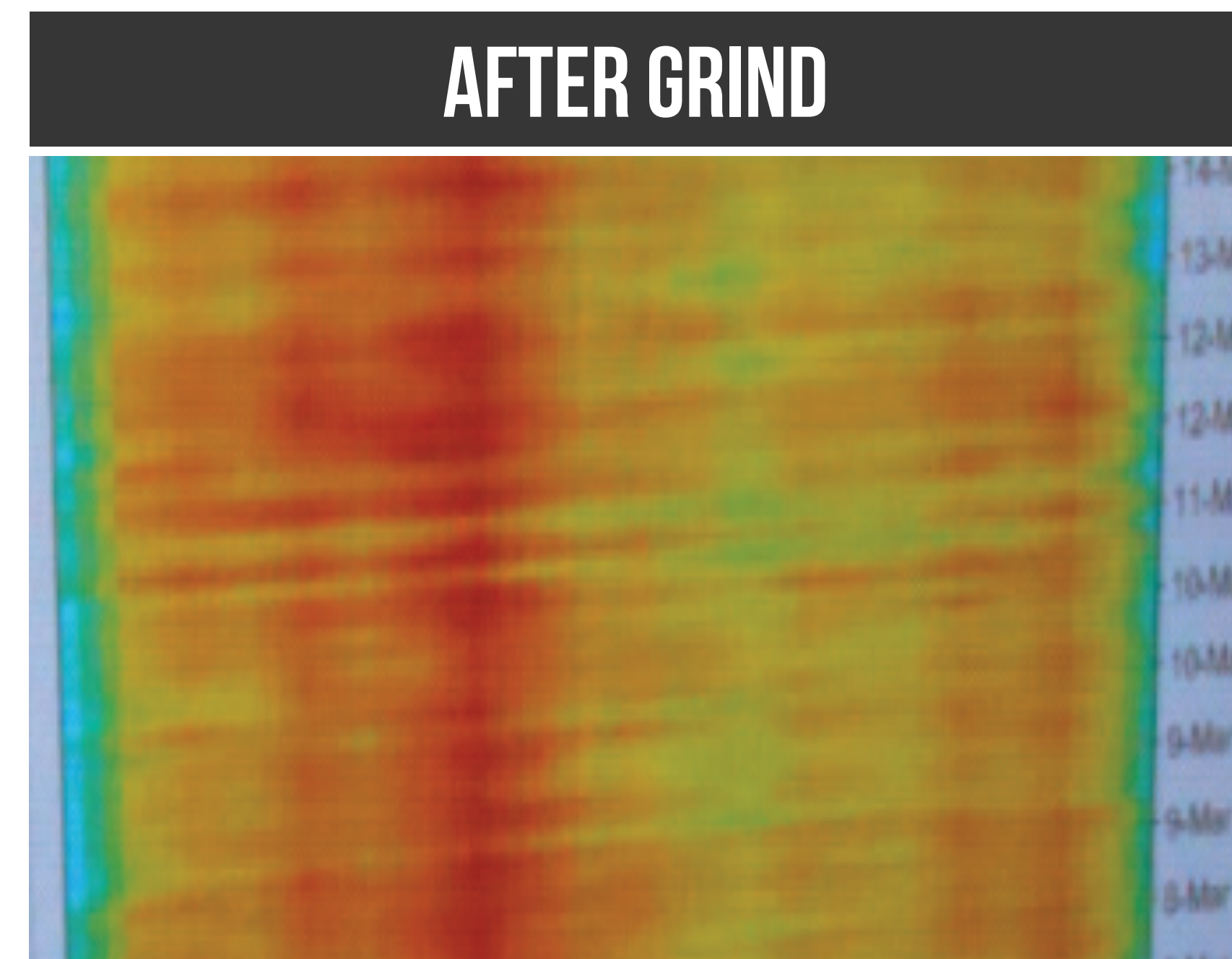
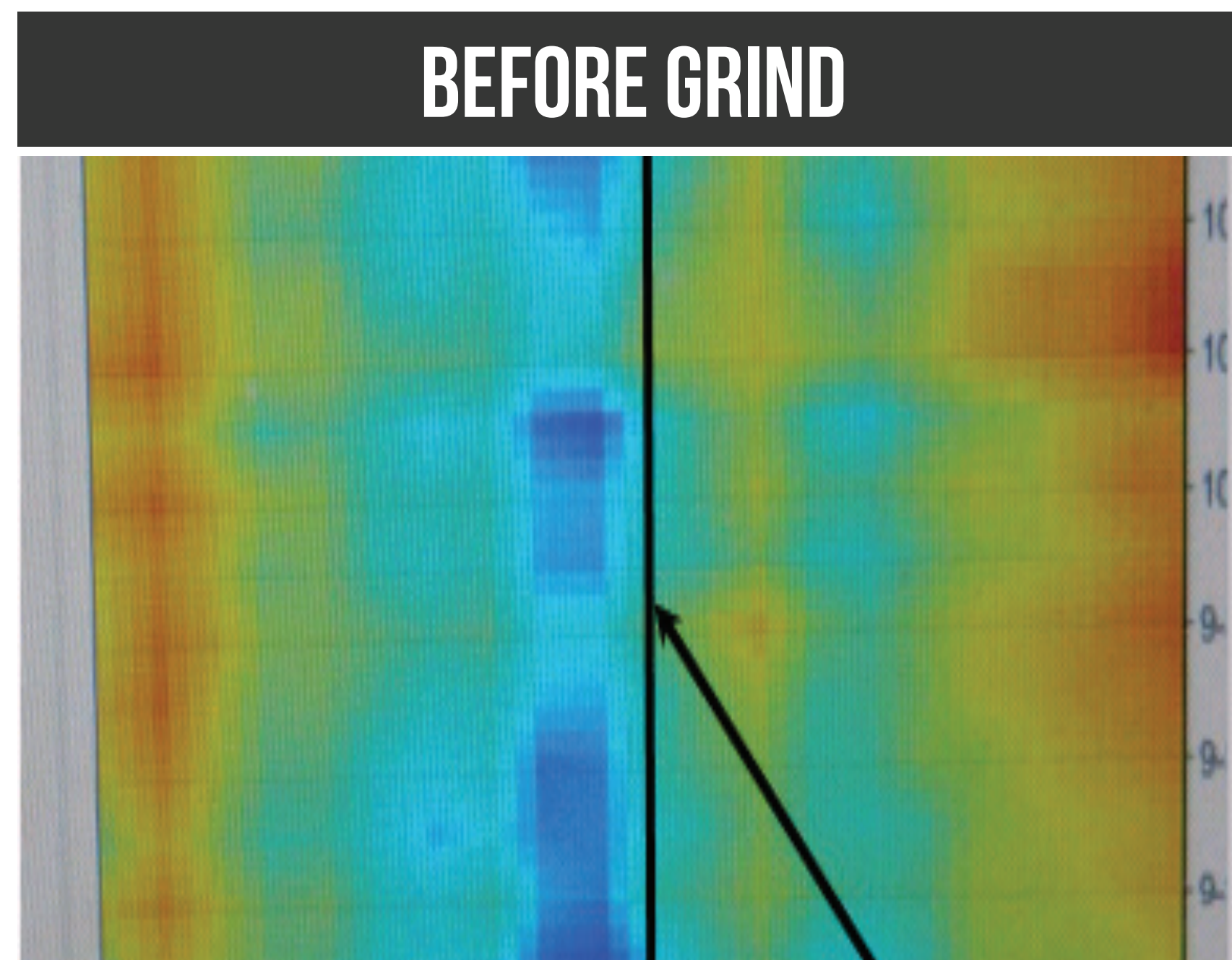


ROLL CROWN MATTERS!

Measure in inch
Curve zero point: +67.3300 inch
(Diameter)



REDUCED MOISTURE STREAK ON “SMART ROLL” COVER



Utilize available tools for diagnosis

REDUCED MOISTURE STREAKS = REAL \$\$

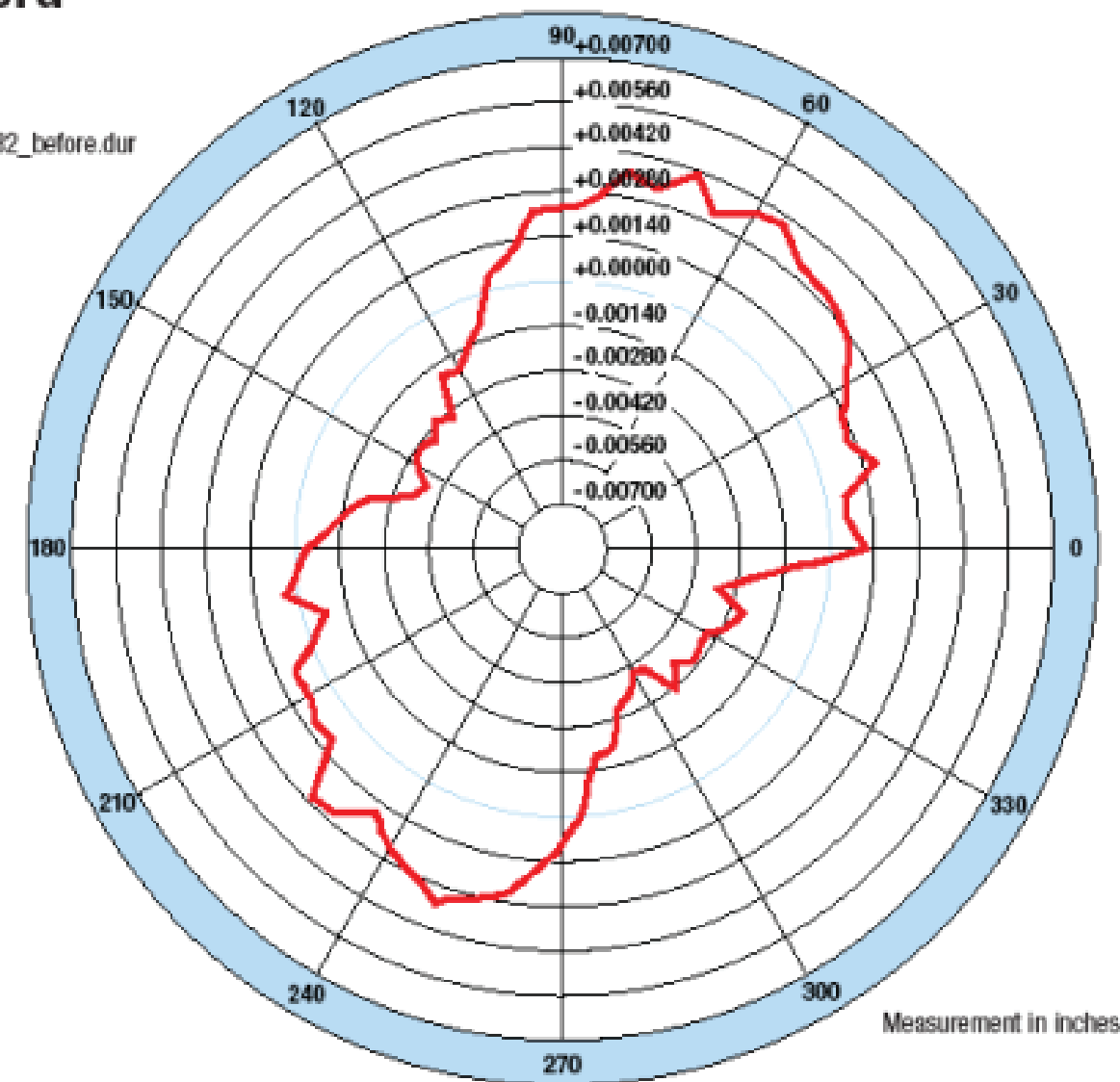
REDUCED STREAKS = HIGHER MOISTURE = INCREASED PRODUCTION		
DESCRIPTION	VARIABLE	AMOUNT
Average reel moisture before PRG press roll service & grind (%)	6.2	
Average reel speed before PRG press roll service & grind (fpm)	2500	
Average production rate before PRG press roll service & grind (T/hr)	50.5	
Average reel moisture after PRG press roll service & grind (%)	7.0	
Average reel speed after PRG press roll service & grind (#/1000ft ²)	2525	
Average production rate after PRG press roll service & grind (T/hr)	51.0	
Increased production per day (tons)	12	
Increased revenue per incremental ton	\$250	
Increased revenue/year (350 days) = \$1,050,000		

ROLL ROUNDNESS MATTERS!

GROUND IN BEARINGS

Measurement Record

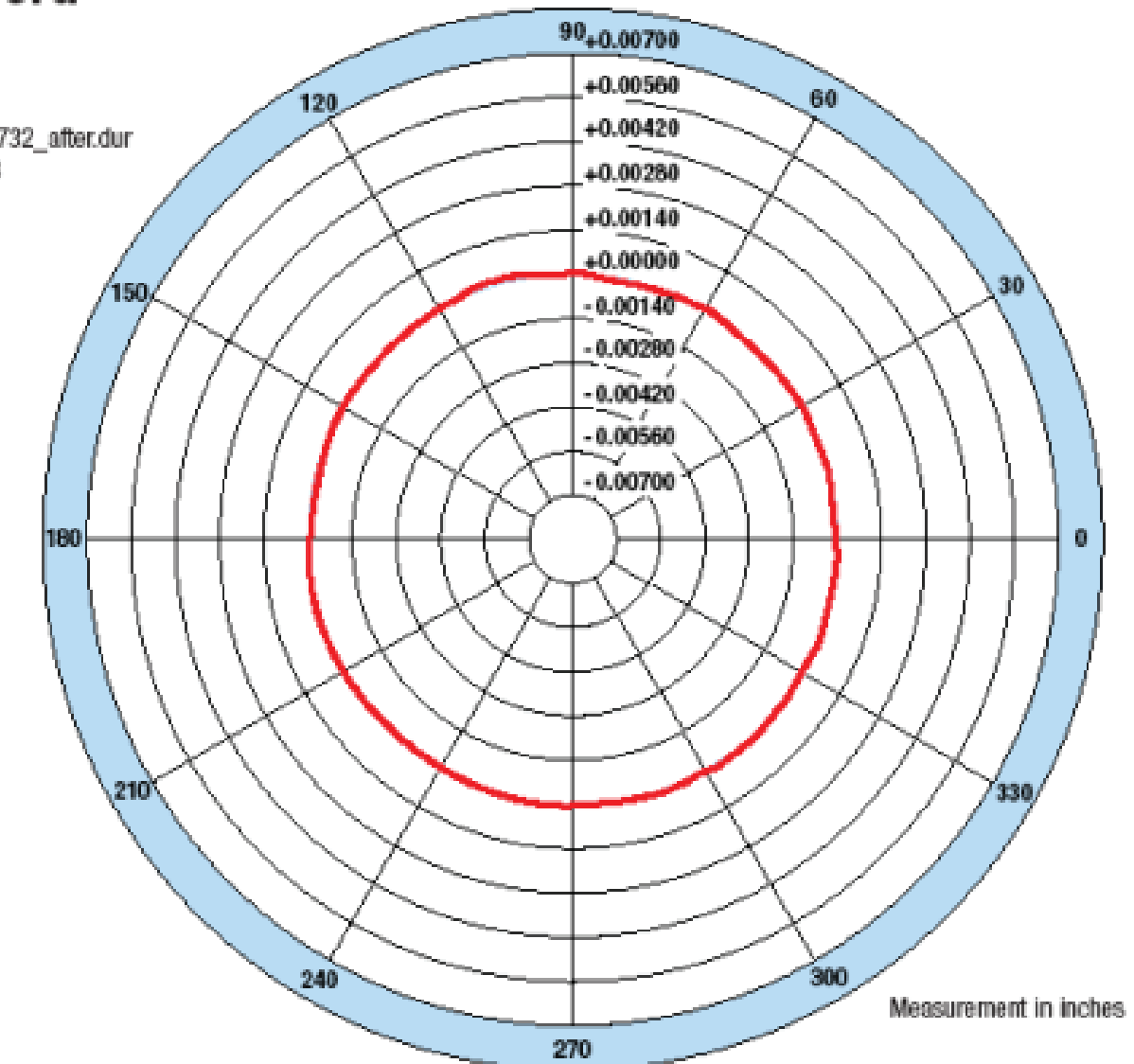
Customer: Confidential
Customer Roll Number: competition/q00732_before.dur
Roundness: 0.00682
Measure Time: 18-10-05, 21:07
Probe Mode: T1+T2
Curve Zero Point: 77.0000 inch
Measurement Position: 263.5000 inch
Roundness: 0.00682



PRECISION GROUND ROLL

Measurement Record

Customer: Confidential
Customer Roll Number: competition/q00732_after.dur
Roundness: 0.00021
Measure Time: 19-10-05, 09:13
Probe Mode: T1+T2
Curve Zero Point: 77.0000 inch
Measurement Position: 263.5000 inch
Roundness: 0.00021



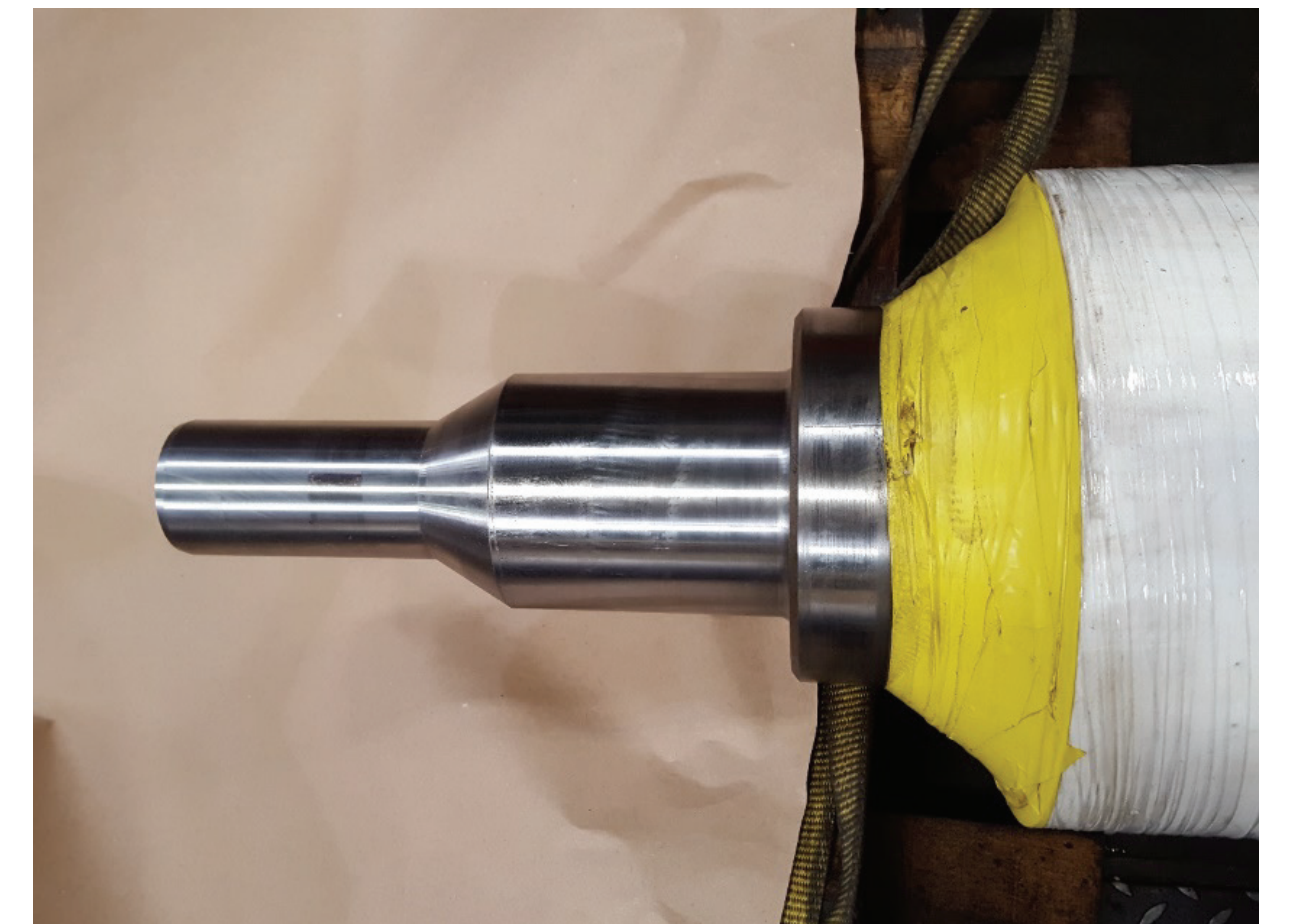
REDUCING VARIATION – GRINDING ON BEARINGS



- Roll “moves” when ground
- Roll moves in and out with defects
- Roundness at OEM specification is not possible
- True concentricity is not possible
- Shape is not attainable

ROLL LIFE AND START-UP – MECHANICAL EXCELLENCE

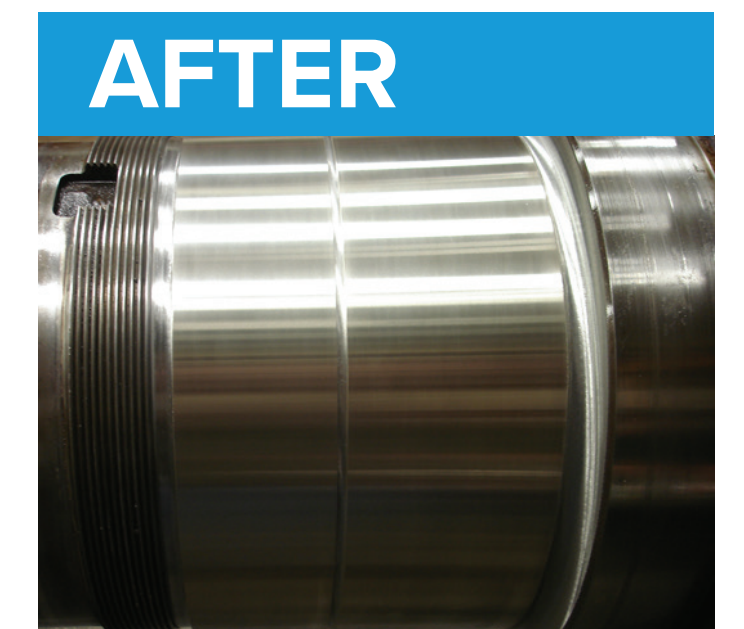
- Bearing Inspection
- Bearing Seat Grinding
- Bearing Replacement
- Complete Roll Inspection
- Complete Rebuilds/
Reconditioning
- Dynamic Balance
- Dynamic Leak Test
- Grinding
- Head Fit Repairs
- Journal Repairs
- NDT
- New Housings
- New Journals
- New Rolls
- Roll Modifications
- Vacuum Testing
of Suction Rolls



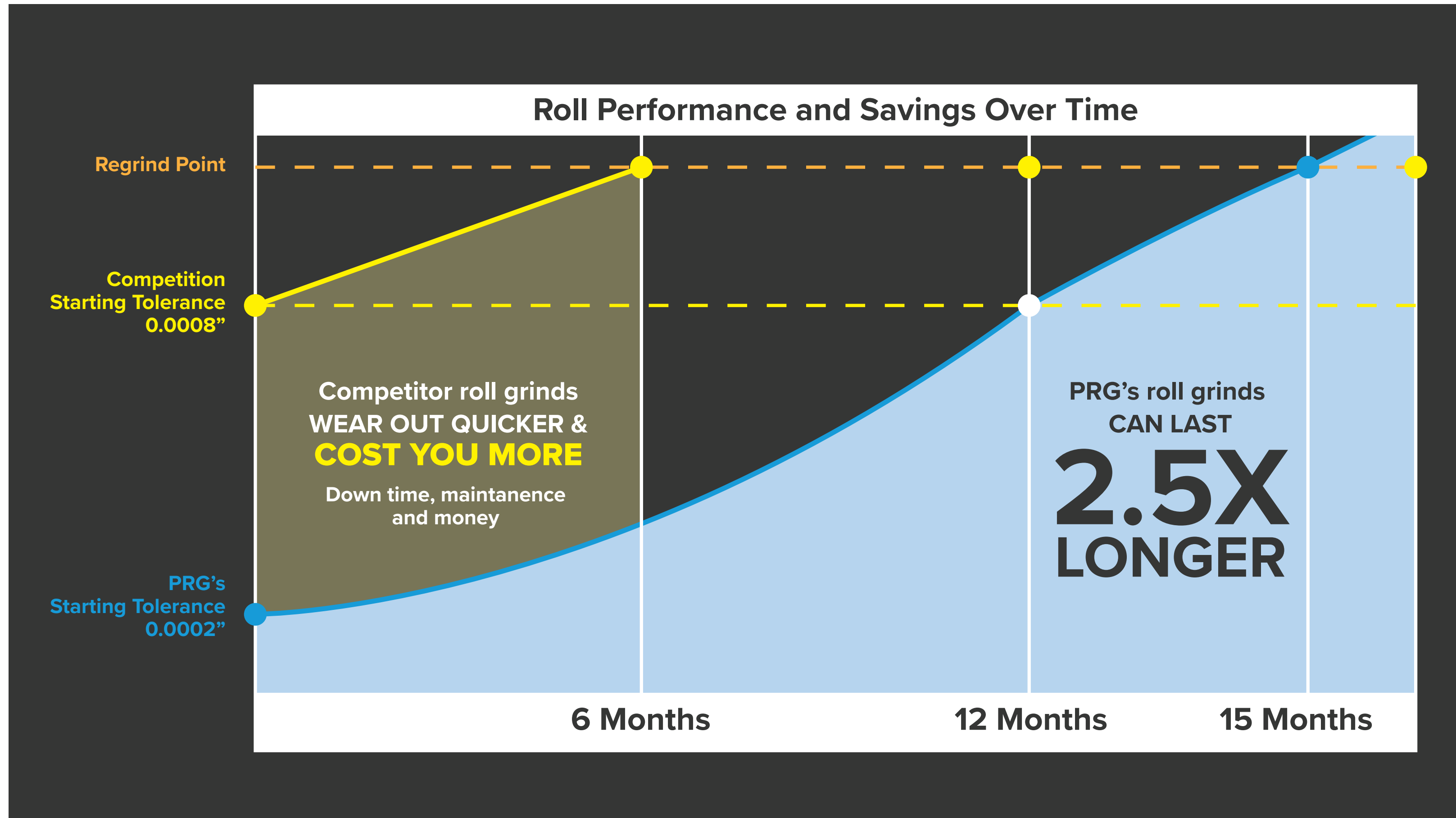
ROLL LIFE AND START-UP – MECHANICAL EXCELLENCE

PRECISION MAINTENANCE IS MORE THAN JUST PRECISION GRINDING

- OEM or better rebuilds – vacuum boxes, seals, showers ...
- Thorough inspection of bearings and housings
- Proper assembly of bearings and housings
- Journal repair and replacement
- Start up on time and producing profitable product



ROLL LIFE AND START-UP

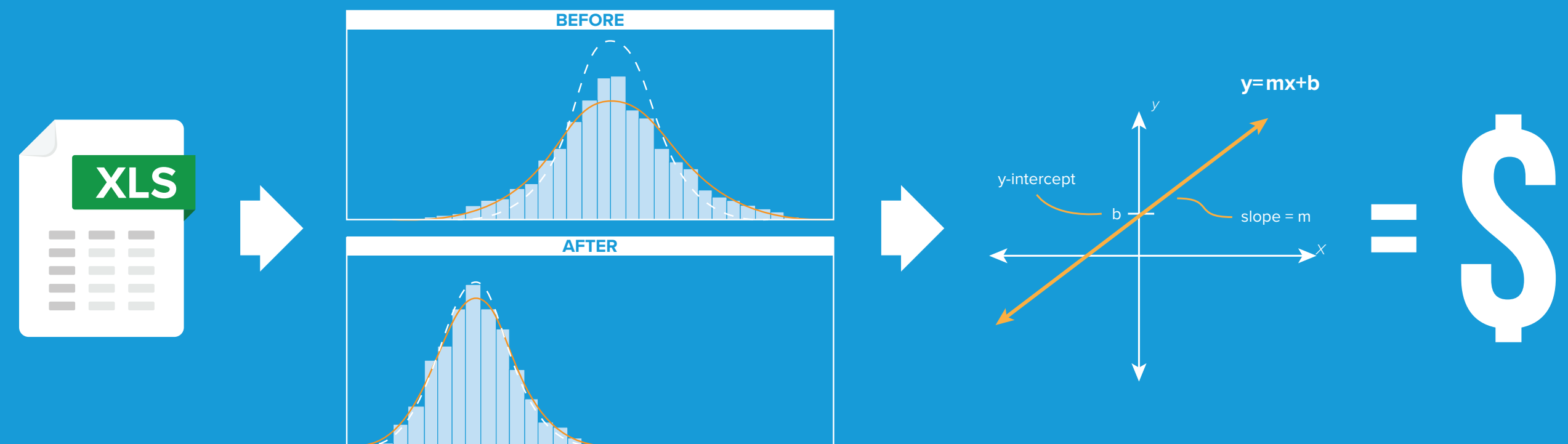


**ROLLS THAT
START CLOSER
TO PERFECTLY
ROUND START
UP FASTER &
RUN LONGER!**

PRG PROMISE TO PROVIDE VALUE

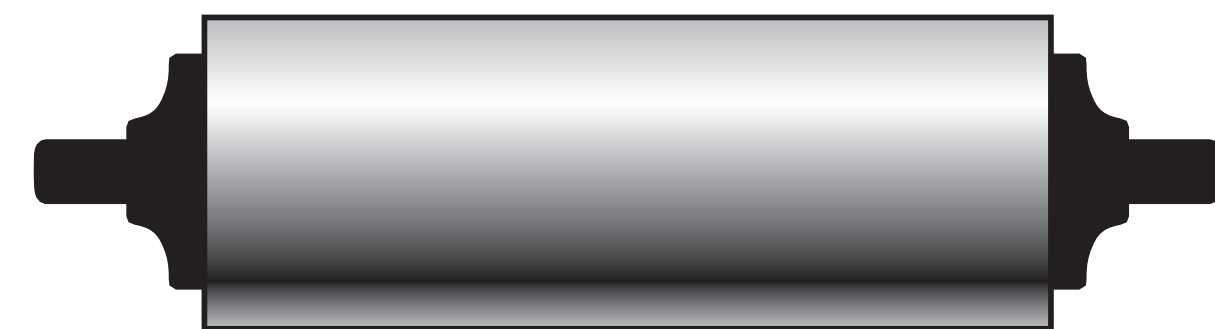
**WE ARE COMMITTED TO HELPING
YOU REDUCE PROCESS VARIATION
AND INCREASE YOUR PROFITS!**

- Any troubleshooting on rotational equipment (video, pics)
- Data analysis on current process
- Joint Design of Experiment to reduce variation



QUESTIONS?

PRECISION



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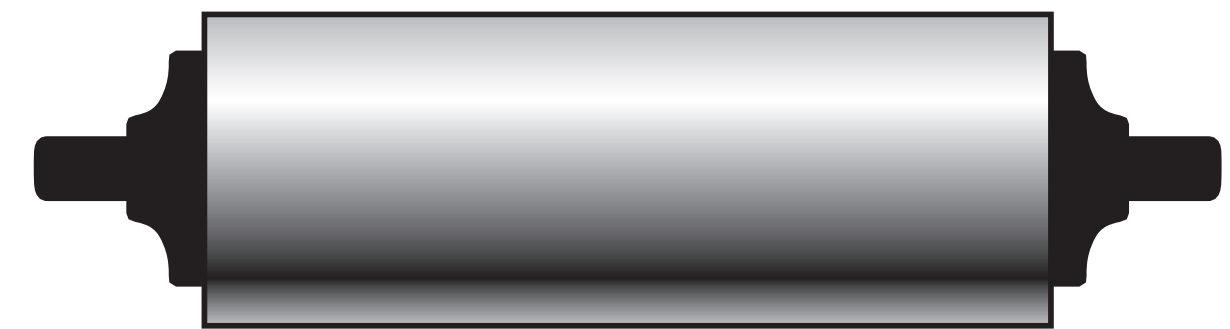
TEXARKANA, ARKANSAS

(870) 216-4000



**THANK YOU FOR
YOUR TIME.**

PRECISION



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