

# SQUEEZING OUT MORE PROFITS FOR THE SOYBEAN OIL INDUSTRY

## OUR ROLL GRINDING SERVICES KEEP YOU FROM LITERALLY THROWING YOUR MONEY AWAY.

Soybean oil producers have one simple goal: increase total oil yield with the least risk, resulting in greater output and profitability. When processed soybean oil flakes aren't in spec, residual oil is left within each flake, and is ultimately discarded — along with lost revenue.



### 73.2 PERCENT OF PROCESSED SOYBEAN OIL FLAKES ARE OUT OF SPEC

Which means your flakes are likely to be out of spec as well. And according to a study published by the American Oil Chemist Society\*, flakes that fall outside of the 0.010"-0.015" desired thickness will not release all of their oil. This discarded oil represents between \$7-16 million in lost revenue every year.

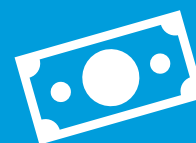
## PRECISION



## ROLL GRINDERS

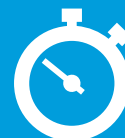
### HIGH FLAKE THICKNESS IS THE ENEMY

HAVING HIGH FLAKE THICKNESS LEADS TO MANY COSTLY ISSUES:



#### REDUCED SOY OIL THROUGHPUT

A high flake thickness allows cells to retain oil — which reduces your total oil yield per flake.



#### EXCESSIVE DOWNTIME

High flake thickness variation is caused by poorly maintained flaker rolls, which typically cause other performance issues and frequent breakdowns.



#### INCREASED LABOR COSTS

The more frequently your machines are down, the more maintenance expenses you'll incur to get them back up and running.



## OUR ROLLS REDUCED FLAKE VARIATION BY MORE THAN 34 PERCENT

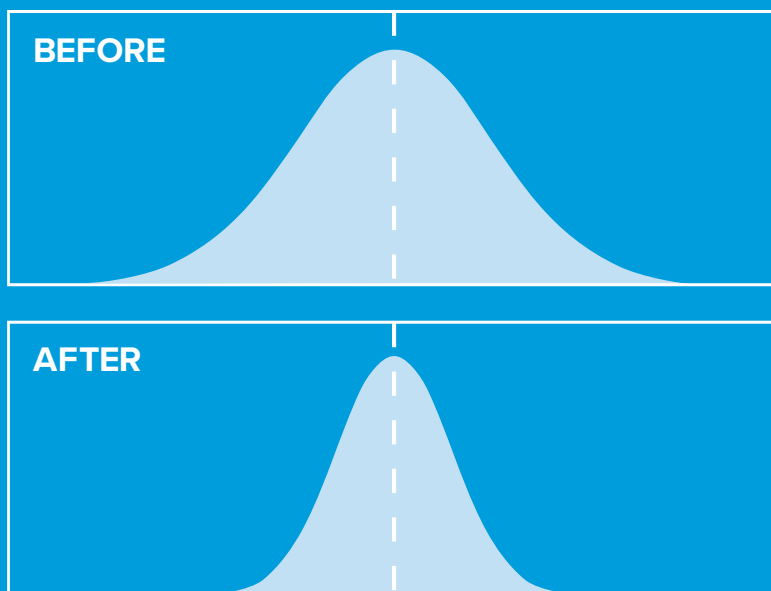
In a five-week pilot study aimed at proving the relationship between roll quality and flake thickness, we were able to reduce soybean oil flake thickness variation by over one-third. Our team worked with industry experts to grind their flaker rolls and document the thickness of the produced flakes.

- After measuring thousands of samples in preparation for the study, we determined over 88 percent of tested flakes exceeded their target thickness.
- Initial roll inspections and assessments found several issues common to all the existing rolls, including:
  - Lack of end dubbing
  - Low-quality grinds from grinding on the bearings
  - Roll finishes that were too smooth
- Once ground, PRG specialists assisted with the training of proper roll setup and installation, leading to a flake variation reduction of over 34 percent.

**This translates to an increase in profits of over \$2,000 per day, per machine due to PRG grinding services.**

## BEFORE-AND-AFTER COMPARISON OF FLAKE THICKNESS

FLAKES COLLECTED BASED ON THICKNESS



**REDUCTION IN FLAKE-TO-FLAKE  
THICKNESS VARIATION BY OVER 34%**

## 50+ YEARS OF GRINDING EXPERTISE

Precision Roll Grinders delivers the world's most precise roll and cylindrical shaft grinds, through an unmatched investment in process innovation, equipment superiority and operational expertise. For half a century, this commitment to quality has yielded considerable value for our customers around the globe through maximized ROI, longer equipment life, higher quality products and less downtime — all of which result in increased profitability. Which is why we say that choosing PRG's grinding services is an investment that benefits your bottom line.

## CONTACT US

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

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**PRECISION**



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