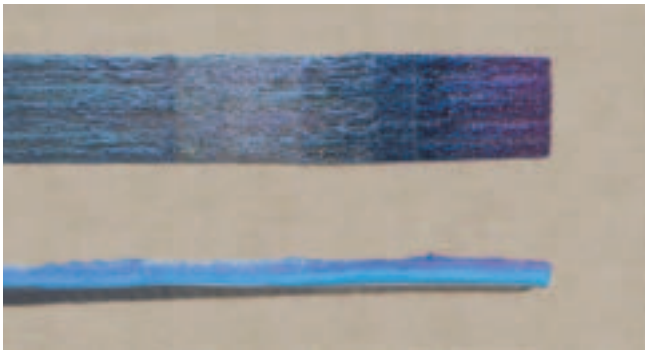




SUN's MicroGrind™ Die Cut Accuracy Control System* is a revolutionary improvement in the accuracy and repeatability of the rotary die cutting process. The MicroGrind System yields blanks that are the correct size throughout the longest runs and from run to run, whether the anvil covers are new or about to be replaced. Multiple ups run the same length. And it all happens during production and without operator involvement.

Each MicroGrind includes:

- A Control System consisting of a Programmable Logic Controller (PLC) and a user-friendly touch pad.
- An Anvil Grinder module consisting of a full width grinding roll, an A/C drive motor, and a precision positioning servo-motor.
- An Anvil Compensator module consisting of an anvil belt drive and precision compensating servo-motor.

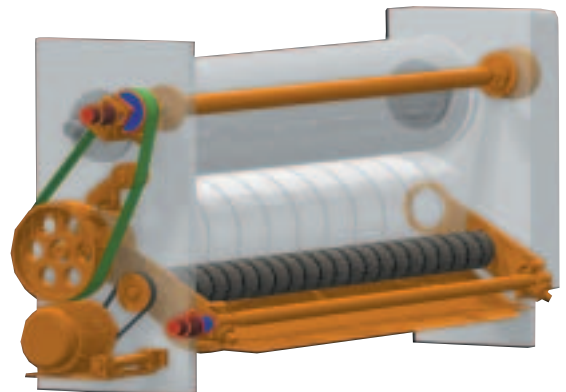


Worn anvil covers from a traditional die cutter



Worn covers from the SUN MicroGrind™ system

MicroGrind dresses the entire anvil at one time. Because of the accuracy of the positioning of the grinding shaft, MicroGrind grinds .001" (.025mm) from the anvil surface every 10,000 sheets and does it during production of boxes. At the same time, the anvil speed is accurately adjusted to reflect the new diameter of the anvil. This assures that the anvil speed is always correct and that the blank size will be consistent throughout the run, and from run to run.

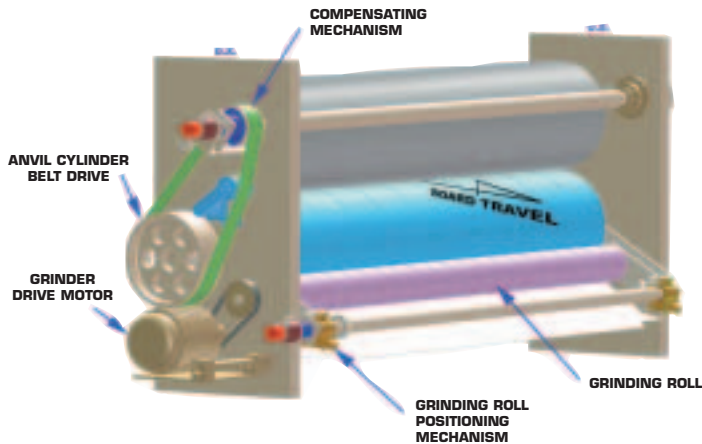


**You need SUN
to grow.**

*patent pending

- MICROGRIND™ -

Die Cut Accuracy Control System



All MicroGrind retrofits include:

- An extremely precise, full width grinding shaft positioned by a servo motor
- Anvil compensating drive, which is highly accurate, adjusted by a servo motor
- Fully automatic grinding while machine is in production
- Accurate speed control for the anvil assuring accurate blank sizes throughout the life of the anvil blankets and for 2-up sheets

FACTOR	QUANTIFIABLE BENEFIT
Accurate Blank Size	Anvil runs at correct speed throughout the life of the covers. Every blank is the correct size throughout the run, or from run to run, throughout the life of the anvil covers. No size variation to cause returned orders.
Downtime for anvil trimming and for anvil speed compensation	<i>MicroGrind</i> grinds the anvil and adjusts the anvil speed automatically during production with no input from the operator and without downtime.
Downtime for anvil cover rotation	<i>MicroGrind</i> continuously dresses the anvil covers which virtually eliminates the need for cover rotation.
Anvil cover life	<i>MicroGrind</i> increases cover life by 15% to 20%
Ink on anvil covers	<i>MicroGrind</i> can be used to grind the ink from the covers in only a few minutes rather than a long, messy clean up.
Scoring & Stripping	Consistently smooth anvil covers assure optimum stripping and scoring.
Cutting	Consistently smooth covers eliminate the need for "heavy" impression with the cutting die, resulting in cleaner cuts and longer blade life.



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