

Die Cut Accuracy Control System



SUN
AUTOMATION GROUP



MicroGrind® brings rotary die cutting to its' full potential by yielding constant blank size and consistent scoring.

Accurate Blank size

Hold blank size within +/- 1/32 from run to run and through the longest runs.

Consistent Scoring

Since the anvils are always smooth, scores are true and crisp.

Automatic Packaging Lines

MicroGrind ensures that the blank size is accurate and the scores are consistent. You can now sell to customers who use automatic packaging lines with out fear of rejections.

Perf Scores

Smooth and uniform anvils equates to consistent perf scores.

Single Pass

Instead of printing on one pass and die-cutting on another pass through a flat bed die cutter, you can run these jobs on one pass on your rotary die-cutter. The savings are enormous for blanks for your specialty folder gluers.

Longer Die Life

With the anvils smooth and uniform, excessive die pressure is never needed, which extends both die and machine life.

Better Stripping

The smooth, flat anvil surface provided by **MicroGrind** means that cuts are clean and stripping is dependable.

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How does MicroGrind® work?

MicroGrind is a unit that can be readily installed on your Rotary Die Cut Unit. It dresses the anvil by .001" every 10,000 sheets without any intervention by your operator. It uses high precision, machine tool servo motors to sense the diameter of the anvil and adjusts its speed to ensure consistent blank length accuracy. Since the anvil remains consistently smooth and its surface speed is accurate, the blanks are always the same size and scores are consistent. When the anvil covers need to be changed, **MicroGrind** automatically makes all the adjustments so that the first sheet run with the new covers is exactly the same as the last sheet run with the old covers. You never need to change anvil covers to run a critical order to maintain dimensional accuracy.

ROI Considerations

| 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. |

For more information about **MicroGrind**, please contact:



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