

Collector's Edition  
2024

Celebrating 50  
Years of Innovation  
& Productivity!



# MIDWAY

Rotary Die Solutions

## Featuring

- Solid Rotary Dies
- Slug Removal Methods
- Press Modules

Est. 1974

Look inside for more!

# Welcome to Midway!



The Home  
Office

## Who are we?

Midway Rotary Die Solutions provides custom steel rotary die solutions within the converting industry. Utilizing our 50 years of experience and excellence Midway is poised at the perfect position to offer up solutions to the converting problem you're facing, whether it's slug removal, complex part designs, tight spacings, multi-die set ups, or inadequate die life. Midway also has ISO 9001:2015 QMS Certification which allows us to create dies for even more businesses than most other die makers - ask us about it!

## Our Philosophy

Midway's mission is to provide the highest quality products and supports services while taking care of our company and our people. Every day we look for new ways to delight our customers through continuous improvement in quality, product innovation, delivery, and technical support. Our company exists to help customers solve converting problems, and we act like it.

## A Wealth of Experience 50 Years Strong

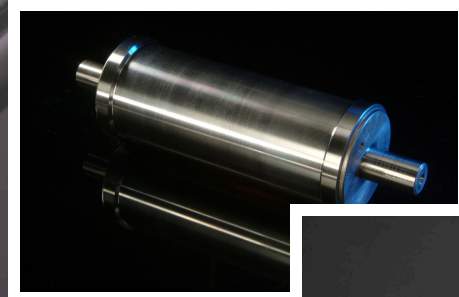
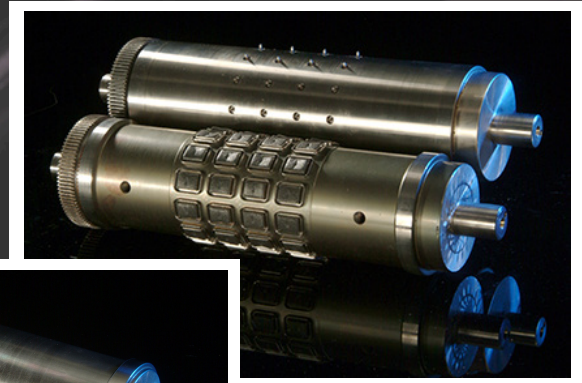
From our company president to sales & technical support to journeyman machinists, we bring decades upon decades of industry experience to combat your toughest die cutting challenges with the anniversary to prove it. In 2024 Midway Rotary Die Solutions is celebrating our 50th anniversary which speaks to our dedication to quality and our commitment to continue our legacy of creating dies that are built to solve your converting problems, even when other die makers can't.

***We build you the die you NEED!***

# Midway Products

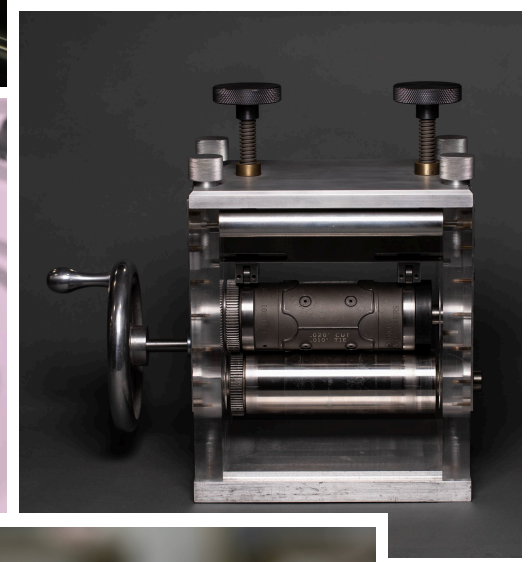
## Crush Cut Solid Rotary Dies & Anvils for...

- Slug Removal
- Vacuum Transfer
- Folding Cartons
- Abrasive Materials
- Heated Cutting/Sealing
- Applications You May Not Have Imagined Yet!



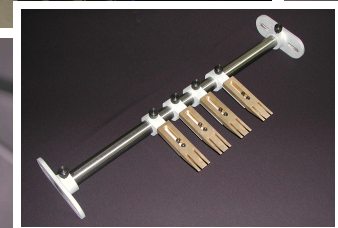
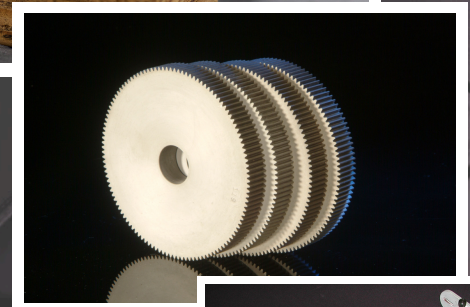
## Dies that Cut Exotic Materials like...

- Flock, Felt, Foam
- Hydrogel, Hydrocolloid
- Sontara, Kapton, VHB, and More!



## Press Modules & Accessories such as...

- Anvils/Support Rolls/Nip Rolls
- Journal Blocks
- Gears - Standard, AGMA10, Adjustable & Custom
- Stripping Pins & Comb Assemblies
- Bearer Impression Assemblies
- Hydraulic Gage Blocks
- Heated Die Temperature Control Units
- Adjustable Wheel Cutting Systems



# Our Markets of *Expertise*

Are you a manufacturer of folding cartons? Do you make medical devices? Automotive parts, maybe? Then you need the prowess of a die maker with vast and specialized knowledge of the requirements and equipment used in your particular market. Clients make the switch to Midway every day to take advantage of our experience and skills we've developed and honed over the past 50 years. Need a recommendation on the best slug removal method for your material? We can make one. Stuck on how to make a multi-layer medical product with limited die stations? Let's talk. Need another set of eyes on your web layout to maximize yield? Ask us to look it over.



## **Folding Carton**

Besides folding cartons, the packaging industry uses Midway dies to produce paper cups, lids, tags, blisterboard, and more. We also produce Braille embossing tools for pharmaceutical cartons in compliance with the latest standards.



## **Medical**

Midway products add value to a vast array of medical products in categories like wound care, hydrogels, transdermals, hydrocolloids, IV site guarding, and special packaging to name a few. We specialize in dies for intricate and multilayer constructions.



## **Insert Industry Here**

Don't see your industry? Don't worry! Midway is always looking to expand our sphere of excellence to new and foreign industries, both stateside and worldwide! If you have a converting problem, Midway has the converting solution you need!

## **Automotive**

Applications include a multitude of converted parts like gaskets, NVH components, and nameplate attachment parts. We specialize in multi-level cutting of unique and difficult materials including VHB, acrylic foam tapes, flock, felt, PVC, and many others.



## **Labels**



## **Specialty**

This segment encompasses a wide range of industries including electronics, HVAC, military, appliance, fabric & leather, recreational products, and more! Specialty applications often involve unique materials, complex designs, or specialized blade geometry.



***The truth is, you won't know how much better it can get until you ask!***

## *ISO 9001 QMS Certification*

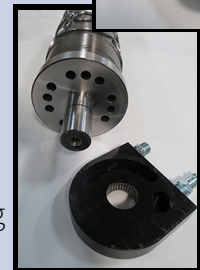
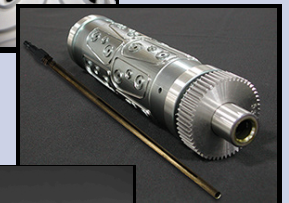
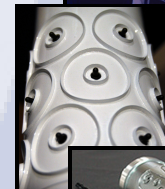
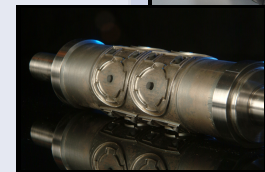
Midway is very proud to boast our ISO 9001 QMS Certification! Very few rotary die manufacturers have this distinction making this another well-deserved benefit that sets Midway apart from the competition!



# Slug Removal Solutions

Removing slugs is crucial for maintaining press machine operations, as excess build up in the die cavities can lead to gear and die damage. Midway offers 8 innovative slug removal techniques tailored to our clients' needs, including Pulse Air, Rubber Inserts, Sacrifice Liner, Spring Plungers, Standard Air Eject, Stripping Pin, Vacuum Thru, and Vacuum Transfer. Each method's effectiveness varies with die specifications and materials, with the Stripping Pin being particularly effective. Rest assured, Midway will identify the optimal slug removal solution for your specific requirements!

- **The Pulse Air** method uses a targeted air burst to remove slugs during die rotation, ideal for multiple cavities, pressure-sensitive cuts, and larger dies. It offers precise airflow control and can be converted to a Vacuum Transfer system with a simple manifold change.
- **Rubber Inserts**, alternatively using neoprene or foam, offer a cost-effective solution to minimize slug build-up. Inserted into die cavities, they help minimize slug build up in the die cavities, but exert minimal force, making them less effective for complete removal compared to other methods. However, they work well for the right die!
- **The Sacrifice Liner** method employs a liner with adhesive that captures slugs when introduced to the die process. While effective for both small and larger slugs when other options are limited, it's less favored due to the cost of materials and concerns over adhesive reliability. Nonetheless, it offers a viable solution in urgent situations.
- **The Spring Plungers** method uses mechanical spring plungers to prevent slug build-up in die cavities, ideal for rigid materials and is a cost-effective solution.
- **The Standard Air Eject** method employs an air probe into the die body, releasing air into cavities with each die rotation, best for smaller dies. Despite being louder and having limited pressure, it's cost-effective, simple to install, and user-friendly.
- **The Stripping Pin** method employs sharp pins in the anvil to pierce and transport slugs for comb system removal. Ideal for metal-to-metal cutting in both inner and outer cavities, it ensures 100% slug control. Note, it requires sufficient cavity space and a removable anvil due to the need for a stripping pin anvil roll.
- **The Vacuum Thru** method employs a vacuum to extract slugs directly through the die, ideal for metal-to-metal and non-adhesive cuts with easily extractable shapes. This efficient approach not only negates the need for multi-die setups and station registration but also reduces tooling and processing expenses.
- **The Vacuum Transfer** method uses a vacuum to hold and move slugs within the die for ejection at an optimal point, ideal for tight press spaces. This efficient approach simplifies operations by removing the need for multiple dies and station registration, ultimately cutting down on tooling and processing costs.

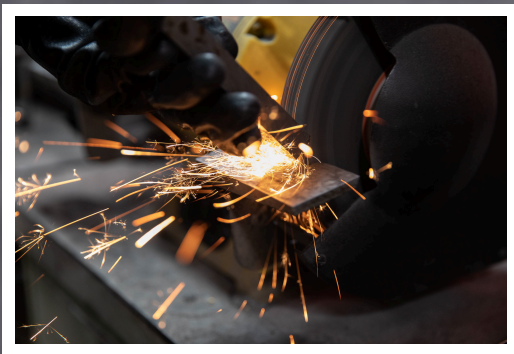


# The Midway Difference

Midway Rotary Die Solutions is the kind of company you like to work with - professional and serious about what we do, not indifferent or difficult. Our team has grown up in this industry, with exposure to most any die cutting application you could imagine (and a few you couldn't) so you know the advice we give will be as solid as the dies we make.



With experience in a broad range of markets, we approach each project with confidence and with the confidence and understanding that no two applications are truly alike. So you'll work with someone who actually listens to what you have to say, in order to ensure we're building the die you need.



That said we take an individual approach to each die we build, never settling for a cookie-cutter approach. Our dies are built as custom as the die-cutting problem you're facing **RIGHT NOW**, and we can't wait to show you how good it can get when you experience ***The Midway Difference!***



**50**  **MIDWAY**  
Rotary Die Solutions

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