

INDUSTRIAL KNIVES FOR THE PAPER INDUSTRY



The modern sanitary paper and fine paper industry and Kinetic grew up together. Starting in the early 1950s, improvements in rewinder speeds necessitated advancements in the industrial knives used on these new machines. Customers demanded better wear and toughness from the industrial knives used on their equipment. Kinetic answered this challenge and led the way going from oil-hardened tool steels to air-hardening, high-speed steels.

Kinetic was the first industrial knife manufacturer to install vacuum heat-treating furnaces. Today, the vacuum furnaces at Kinetic are the finest in the

industrial knife industry and are a key factor in our ability to consistently supply the highest-quality industrial knives available.



CHOPPER BLADES FOR PAPER & NONWOVEN APPLICATIONS

Another issue arose in the sanitary paper tissue and toweling industry. As rewinders got faster, winding mandrel vibrations created problems during transfers. Kinetic responded with the Certified Winding Mandrel product line. These winding mandrels allow for smooth web processing at high machine speeds –

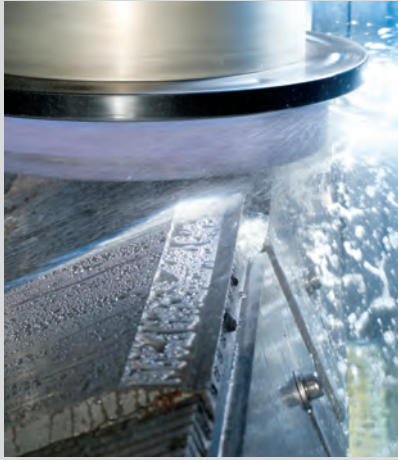
“Our insistence on using only the best materials and quality control allows us to distribute products to customers around the world with the consistency they expect.”

allowing huge gains in productivity. No one in the world, other than Kinetic, can provide sanitary paper manufacturers with a winding mandrel balanced, using our proprietary three-plane dynamic balancing process, allowing us to certify the peak-to-peak displacement to within .004” (0.10mm) displacement amplitude. After all, what good is having higher running speed potential if you can not get there?



ANVIL BANDS FOR PRODUCTION WINDERS

INDUSTRIAL KNIVES FOR THE PAPER INDUSTRY



As customers demanded better life from their perforating blades Kinetic responded using particle metallurgy Ultra Wear Steel. Plain and simple, Kinetic UW perforating blades set the

high standard for performance and durability in the heart of the rewinding process – web perforation.

As the industry evolved, rewinders that utilize full-length perforating blades were developed. Kinetic was there again to meet this new requirement with bi-metallic perforating blades providing the wear resistance, toughness, and dimensional tolerances of traditional shorter perforating blades – no easy feat in blades that can be up to 138” (3,500mm) long!

The fine paper industry uses Kinetic-designed, split-bottom slitter bands to reduce downtime to a minimum by greatly reducing change-out times (the anvil shaft does not need to be removed for flipping edges or removal of the anvil for sharpening). Coupled with our Ultra Wear shear slitters, this combination leads the industry in cutting performance and life.

In the feminine hygiene and disposable diaper industry, Kinetic leads the way with super high-speed inlaid anvils and sintered carbide knives. The high-speed converting of non-woven poly, tapes, meshes, and composite webs is a very demanding application and these special Kinetic products perform to a high level in around-the-clock production schedules.

For customers in the paper industry to run at top efficiency, they need consistency in finish, dimensional tolerances, and hardness on all industrial knife products. They need the same product quality yesterday, today, and tomorrow to achieve top efficiency. At Kinetic, our insistence on using only the best materials and quality control allows us to distribute our products from our facility in

Greendale, Wisconsin to customers around the world with the consistency they expect. Our customers know that they don't have to question whether their industrial knife will work. They just open the box and put the Kinetic product into their machine – and then they are free to deal with the myriad of other problems that they face daily.

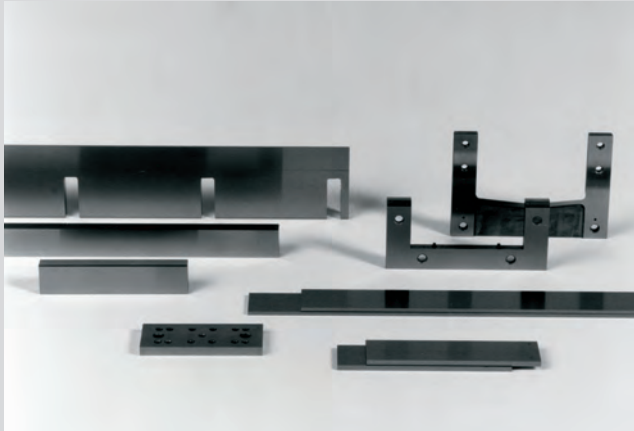
No one better than Kinetic understands the cost of ownership. A walk through our facility proves this. We only buy the best equipment available – we know that at the end of the day the best is never the cheapest, but the cheapest is never the best choice. You don't make money when your machine is not running paper. Again and again we see that the lowest cost knife is never the least expensive in terms of production efficiency and cost per case.

Our customers are comfortable knowing that our highly experienced machinists are making their knives supported by trained professionals who provide technical support and an engineering staff that constantly is exploring new ways to improve knife performance. The result for your operation – less downtime meaning greater productivity and more profits. And our customers know, better than anyone, that they can never get downtime back.

Today, many companies stress outsourcing – at Kinetic we stress insourcing. In order to ensure you get the best product possible we buy the best materials available. Because of our captive production capacity, the next time the raw material goes out the door is when it is in the finished form, packaged and on the delivery truck – assuring you the finest industrial knives in the world are on their way to your facility!

Give us an opportunity to learn your process and your particular requirements – we want to be your knife supplier. Through this relationship we can provide you with the best product recommendations for your converting needs and help you obtain your cut quality and productivity goals needed to be competitive in this fast paced market.

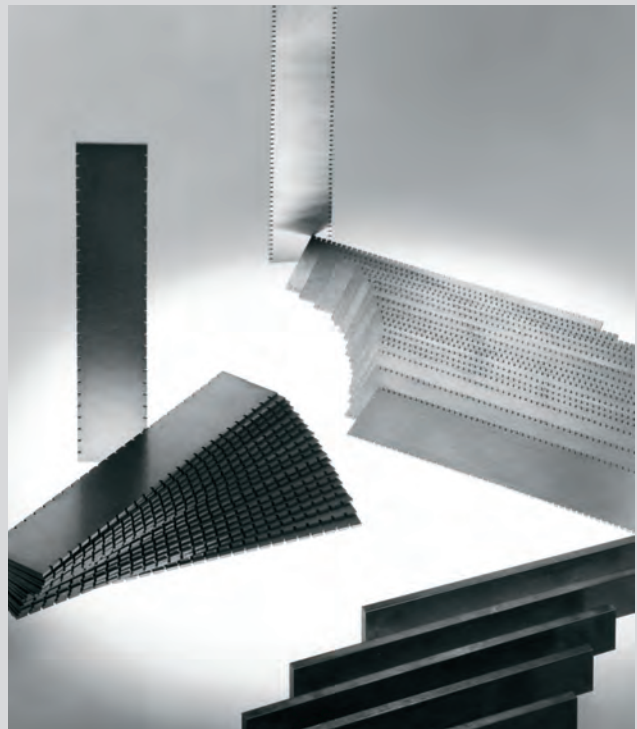
These are some examples of our industrial knives for the paper industry. To learn more about Kinetic products and services, please visit www.knifemaker.com.



CUT-OFF KNIVES FOR DIAPERS AND FEMININE HYGIENE PRODUCTS



CORE FORMING MANDRELS FOR PAPER TUBES



PERFORATING BLADES AND CARBIDE ANVILS FOR TOILET PAPER AND PAPER TOWELING

INDUSTRIAL KNIVES FOR THE PAPER INDUSTRY



CRUSH CUTTERS AND ANVILS



**DOUBLE EDGE PAPER MACHINE
BOTTOM SLITTER BANDS**



**SPLIT BOTTOM BANDS, MULTI-BLOCK
BOTTOM BANDS, TWO EDGE BANDS AND
SLITTERS**



**HEAVY-DUTY ANVILS
FOR SCORE SLITTING**



SCORE SLITTER



DISHED SLITTER



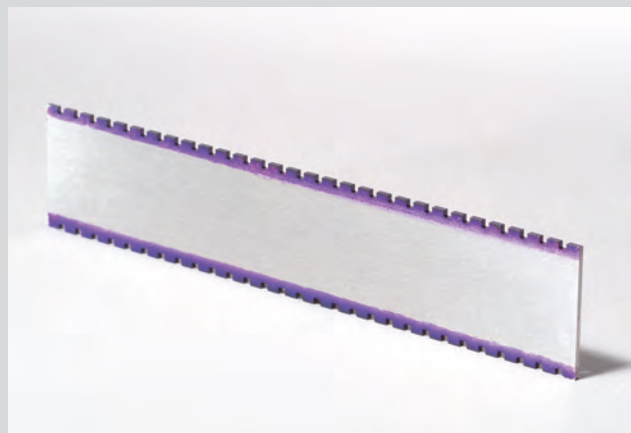
NEWSPAPER SLITTER



BOTTOM SLITTER BAND



BOTTOM SLITTER BAND

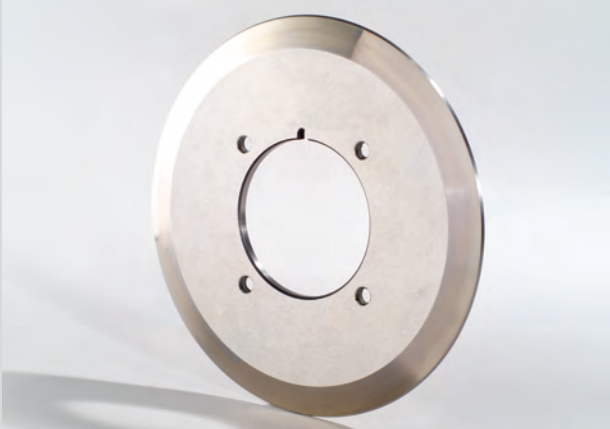


**PERFORATION BLADE
WITH EDGE WEAR COATING**

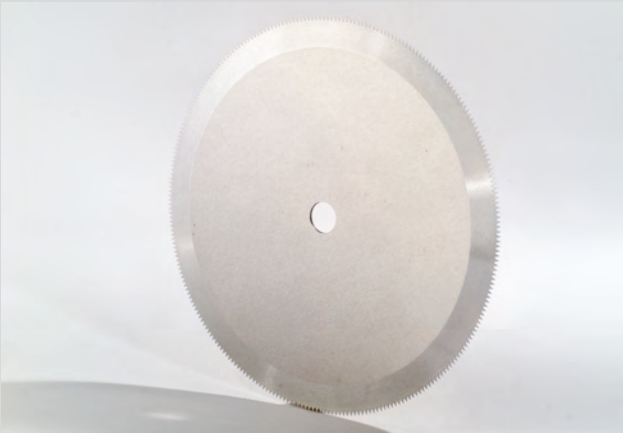
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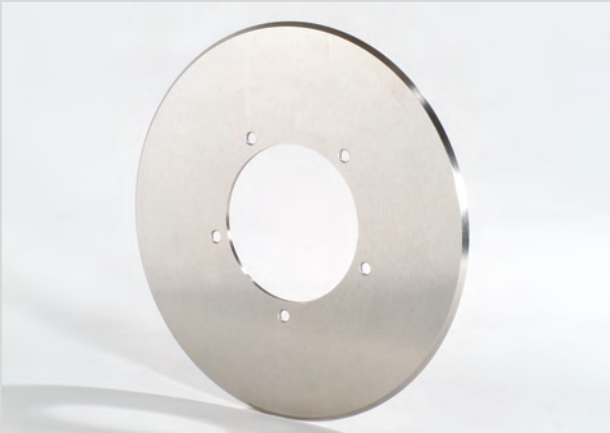
SHEAR SLITTER



SHEAR SLITTER



TOOTHED SAW



SHEAR SLITTER





WRAPPER KNIFE



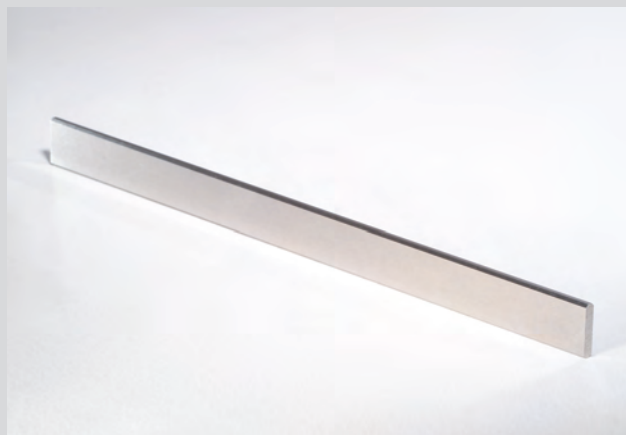
WRAPPER KNIFE



CHOPPER BLADE



NAPKIN FOLDER FLY KNIFE



NAPKIN FOLDER ANVIL



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