



**Are your granulator blades  
consuming your plastic, OR is your  
plastic consuming your blades?**

**K**

**KINETIC®**

# Put Our Decades Of Exp

## Learn how easy working with specialists can be!

### See the difference

The same materials that make today's plastics so tough, impact-resistant, weatherproof, and durable are the very ingredients that make granulating plastic so difficult. What makes a good granulator blade? It must have a keen edge to cut through fortified plastics. It must stay sharp as it endures the jarring impact of its work. And it must consistently produce uniform particle sizes that will fit through the screen.

We're The Kinetic Co., knifemakers since 1948. We serve the sanitary paper, metal, veneer, and rubber tire industries. We are now entering the plastics industry. We want you to know that Kinetic makes granulator blades that will do the job. What makes us different than your current blade supplier? Compare our service to theirs.

- Factory-trained salespeople who regularly visit and use their expertise to solve your problems.
- Experienced metallurgists who choose the right materials for your job.
- Production processes designed to craft blades to withstand daily granulating stresses and abuses.
- Fly knives and bed knives that reduce your downtime – fewer changeouts, fewer problems.
  - Personal service: we meet your deadlines, solve your problems, and deliver quality.
  - We stand behind our knives and blades – 100%.

### The right materials for the job

Once we learn about your granulating process, our experts use their years of experience to choose the material best suited to your plastics and your equip-

ment. High-carbon/high-chrome tool steels? Hot Tuf+2 tool steel? Ultra-wear particle metallurgy? Chromium-Plus tool steel? Each has its own characteristics.

We use only the finest steel grades available – and when we order materials, we stipulate rigorously tight specifications. Our years as knifemakers have taught us that the quality of the metal directly affects the performance and life of the blade. Trust us to begin crafting your granulator blade the right way – from the first step to the last.

### Heat treating that brings out the best

Many alloys have the potential to be tough and wear-resistant. But only skillful heat treating brings out those features. On the other hand, improper heat treating can change the structure of the material, nullifying those special properties. Because Kinetic has spent decades heat treating blades, we have developed techniques in heat treatment and tempering processes that result in the best the metal has to offer. Without skillful heat treating, even the most careful material selection will deliver disappointing results on your production line.

### Durable, resilient blades that resist wear

Wear-resistance is produced by balancing hardness and toughness. Seems simple, but it's not. "Hardness" prevents a blade from wearing away during repeated use – so very important in granulator blades. However, a too-hard blade becomes brittle. Toughness counterbalances



# Experience Into Your Plant

hardness, strengthening the knife to resist chipping and fracturing – another sought-after property in a granulating operation. Yet too much toughness causes durability problems. Finding the correct ratio between hardness and toughness is a secret that Kinetic's heat-treating experts have mastered.

What this means to you is that our granulator blades have the durability and resiliency to withstand the stresses exerted by today's complex plastics fortified by glass and metal particles and resins. One injection molder reported that Kinetic blades ran continually for 120 days. The blades of their former supplier lasted only 21.



### **Blades that are thru-hardened – all the way through**

We don't carburize granulator blades.

Carburizing only puts a hard skin on the blade very much like the shell on a hard-boiled egg. Once the skin is gone, the soft core of the blade is exposed. Our thru-hardening and multiple tempering process bring the material to its finest molecular structure – a benefit that gives our granulator blades their longer life and reliability. When these blades

make contact at high speed, there is no possibility of exposing a soft surface on the blade's edge.

What's more, because our blades are thru-hardened, you can sharpen them again and again without hitting a soft core.

### **Blade edges and surface finishes that reduce wear and tear on your machines.**

Injection molders report that Kinetic granulator blades cut freely. Our edges stay sharp, and our surface finish is mirror-like – which gives you clean cuts even on your most abrasive plastics. Clean cuts reduce the wear and tear on your machine, requiring less horsepower during the cutting process.

### **Particle size that doesn't clog your screens.**

How much time do you spend cleaning out screens? Whatever time you spend is too long. Too-large particles cut by dull blades are costly: disassembling the machine to unclog a loaded screen can take hours. Blades that keep their edge, continue to cut cleanly and don't cause problems eliminate another source of downtime. That's one more reason wear resistance is so important to you in a blade. One injection molder told us that our blades were reducing their plastics to a fine, uniform granule size – they had no clogging problems.

---

*One injection molder reported that Kinetic blades ran continually for 120 days.*

---

### **Factory-trained, knowledgeable service reps**

Our salespeople are trained by the experts at Kinetic to be problem solvers, and they are looking for problems to solve. Talk to them about your concerns. You might get answers that will take some headaches out of your production routines. Also, expect our salespeople to drop in for a visit even when you're not placing an order. They want to get to know your operations, your processes, and your people. At Kinetic, we're not just selling knives. We're selling solutions to your cutting problems.

### **ISO-9002 certified**

Kinetic is ISO-9002 certified. ISO certification guarantees consistency and quality. If your first order of Kinetic blades works well for you, every order thereafter will perform in the same unerring way. Peace of mind is no small matter when your uptime depends on the reliability of each part in your machine.

**Use our experience to improve your production and increase your profits. Call Kinetic today!**



# Kinetic's Regrinding Service

## **A Cut Above The Rest**

**Are you getting the same life and performance from reground granulator blades as brand-new blades? If not, there's something wrong.**

**Do you want a brand new granulator blade for a fraction of the cost? If correctly manufactured, a blade can be reground again and again with excellent results. Kinetic's regrinding service can return your worn granulator blades to you at one-third to one-quarter the cost of new blades.**

**Even if your granulator blades have been manufactured by a firm other than Kinetic, we can give them new life. We match bevel angles on blades, and our surface finishing skill is unparalleled. Our grinding equipment is the best on the market. You get cutting edges that are free of burrs and scratches.**

**So if your storeroom looks like a graveyard for worn granulator blades – dead ends for your production budget – let us give them new life. And in many cases, perhaps a better life than they had when they were new.**

## About The Kinetic Co.

### Decades of experience

You can learn a lot if you have been making knives since 1948.  
We've learned about metals and how their properties act under stress.  
About heat-treating and tempering techniques.  
About dramatically reducing the friction of the cut.  
About deliveries that are on time and precisely meet specifications.  
About building long-term relationships with customers.

Kinetic is a family-owned business whose third generation  
is beginning to take part in the business.  
When C.L.Masters founded this company, he did so on the principle that  
*better industrial knives reduce costs in the long run.*

In 1948, Kinetic began manufacturing rotary slitters for  
the American sanitary paper industry. Eventually, we expanded  
our products to include a complete line of blades,  
anvils, and mandrels for this industry.

Today, along with our sister company, Microblade Limited  
of Sheffield, England, we are the largest supplier in the world  
of industrial knives and hardened-wear products  
for the sanitary paper industry.

In 1975, we branched out into the metal industries, where  
we now manufacture a complete line of straight and rotary knives.  
Our most recent knifemaking achievements have been  
in the rubber tire and veneer industries.

While products and processes may change from industry to industry,  
we have succeed in all of these markets for two reasons.  
One, we understand how to apply our knifemaking knowledge  
to each product and operation. Two, we faithfully heed our  
founding principle: *better industrial knives save customers money.*  
Let us show you what we can do for your productivity and profits.



**KINETIC**

THE WORLD'S LEADING MANUFACTURER OF INDUSTRIAL KNIVES  
FOR THE PAPER, RUBBER TIRE, WOOD, METAL, AND PLASTIC INDUSTRIES

P.O. Box 200  
Greendale, Wisconsin 53129-0200 USA  
Phone +1.414.425.8221  
Fax +1.414.425.7927  
Visit our web site at [www.knifemaker.com](http://www.knifemaker.com)