



**International  
Knife & Saw**

**Knives  
for the  
Steel  
Producing  
and  
Metal  
Processing  
Industries**

**[www.iksinc.com](http://www.iksinc.com)**

## Steel Producing Manufacturing Excellence

International Knife & Saw, Inc., world leader in industrial machine knives and saws, manufactures cutting tools to improve the production and tonnage output in the mill. By implementing advanced knife manufacturing technologies, CNC machine tools and sophisticated computer controlled heat treating and tempering processes, knives are produced to close tolerance quality control standards.

### Resistance to Spalling

Reduced stress and decarburization allow IKS knives to resist premature knife failure. Through special vacuum heat treating and tempering, decarburization is eliminated and distortion minimized. As less metal removal is required during finish grinding, stresses are significantly reduced.

**Mark II Side Trimmers** are known industry wide for their superior wearability and resistance to spalling. As the cutting edge lasts longer; the production turn is uninterrupted for frequent knife changes. With our "Special" Mark II knives, edge failure is minimized giving you maximum tonnage between sharpening.

**Other IKS Steel Mill Knives**, including scrap chopper blades, curve crop shears, standard crop shears and bar shears also have superior impact and wear resistant qualities. Every IKS knife for every mill operation has these inherent characteristics to extend blade life and improve production and tonnage output.

**Tube Cutoff Knives** are manufactured from specific alloys to meet your individual cutting requirements for either rotary or guillotine cutoff equipment. From small diameter copper tubing up to 24" diameter petroleum pipe, IKS can supply the appropriate knife for your cutoff operation. Our expertise in serving the tube industry is documented by proven performance of these high quality knives.

### Coil Processing High Performance Slitter Tooling

IKS slitter knives are manufactured from specific alloys and precisely heat treated for consistently uniform hardness to meet your individual cutting requirements. Precisely lapped to within +/- .000040" tolerance to give you precision slitting capabilities. Our many years of experience in metalcutting offer you the advantage of using our expertise to solve your most demanding slitting problems.

### Precision Slitting Applications

International Knife & Saw's computerized slitter assembly program, SAVE, provides the most flexible and user friendly software package available in the industry. This time-saving computer software allows you to easily calculate precise and reproducible setups in seconds. IKS can customize a SAVE system to suit your specific needs and recommend slitter tooling of the right alloy and hardness. Increase productivity and achieve new levels of cutting accuracy with SAVE.

### Separator Discs

Manufactured from the finest tool steel, standard IKS separator discs are available from stock for immediate shipment. Chromed discs or discs highly polished to a 2 microinch finish can be shipped in minimal time. To maximize trouble-free operation, our special coatings increase wearability and lubricity. Your IKS representative can assist you in making the appropriate selection for your specific application.

### World's Largest Inventory of Standard Sizes

From our computerized inventory in Florence, South Carolina and through our strategically located stocking facilities throughout North America, we can offer just-in-time delivery. Our distribution network allows you to have the knives you need when you need them without the high cost of shipping and maintaining inventory.



## Steel Processing for Metal Fabrication

### Quality Manufacturing

The hardening process is one of the most important facets in the manufacture of IKS shear blades. In combination with the metallurgical composition, precise control of the heat treating and tempering cycles produce a knife with superior toughness and wear resistance. Shear blades are manufactured in a complete range of single, two and four-edge styles for both domestic and foreign made squaring shears. **Available in many material grades** to suit individual shearing applications, our experienced product specialists match blade design, alloy and hardness to your specific requirements. We'll study your application and recommend the right blade for maximum performance.

### Industry Acceptance

Two special IKS material grades have made Mark I and Mark II shear blades popular worldwide.

**MARK I GRADE** - a high quality shear blade material. Premium high carbon, high chrome tool steel. Gives maximum life before dulling on mechanical shears cutting mild steel up to and including 1/4" thick. Also for hydraulic shears up to and including 3/8" mild steel capacity.

**MARK II GRADE** - A modified high carbon, high chrome alloy tool steel grade provides maximum cuts before dulling when shearing mild steel up to and including 1" thick. Also applicable for stainless steel up to and including 1/2" thick.

### Standard Sizes From Stock

International Knife & Saw maintains the a large inventory of standard sizes. With many IKS facilities strategically located throughout North America, we can inventory your knives locally and deliver them to you just-in-time at lower shipping costs. Our experience in serving the metalworking industry plus our total manufacturing capability and just-in-time delivery can be put to your advantage.

### Metal Slitting Accessories

#### Spacers and Stripper Rings

A full complement of slitting accessories are available from IKS in a complete range of materials and sizes. Spacers in tool steel, micarta, or nylon as well as plastic shims can be supplied on request. Rubber stripper rings are also available in single or dual durometer hardness and as always, multiple color choices are available.

### Piston Actuated Lock Nut

Piston actuated, hydraulic lock nuts offered by IKS can improve overall slitting operations. These state-of-the-art lock nuts are designed to allow you to actuate and release hydraulic pressure without grease leakage. Used in specific operating conditions, downtime is significantly reduced.

### Slitter Tooling Storage Units

Tooling stored safely and with proper protection from the environment adds to the life and performance of your slitter tooling. Plus, easy access to your inventory of tooling offers time saving advantages when setting up your slitter. We custom build storage cabinets for organizing and storing slitting tools and accessories in designs to suit your specific needs.

Fabricated from heavy-gauge metal with wood liners of the appropriate thickness in all shelves and compartments to provide the best knife edge protection. Vertical and horizontal storage units as well as knife boxes are designed either for stationary storage or movable storage with heavy urethane casters.



Here at IKS Florence, SC Manufacturing Facility, we manufacture the metal and steel industry's leading blades. Additional in-house capabilities include machining, heat treating, and grinding. We also boast one of the industries most comprehensive inventories.



Machining



Heat Treating



Grinding



Inventory

## Knives and Accessories for the Metalworking Industry

- Shear Blades
- Slitter Knives
- Spacers & Shims
- Overarm Separator Tooling
- Tube Cutoff Knives
- Scrap Choppers
- Side Trimmers
- Precision Shimless Tooling
- Wire Reclaiming Knives



## International Knife & Saw

1435 N. Cashua Road • Florence, SC 29501-0535

Tel: 1-843-662-6345

Fax: 1-843-664-1103

[www.iksinc.com](http://www.iksinc.com)