

# BloApCo<sup>®</sup>

## Trim Cutters

If You Can Slit It,  
We Can Cut It!®



Converting and  
Manufacturing Industries'  
Choice In Pneumatic Trim Removal Systems

# Money-Saving Opportunities

If your converting line creates edge trim, the by-product is an opportunity to save time and money. Let BloApCo design and build an efficient system to handle your edge trim scrap.

BloApCo's scrap-handling systems increase production up-time and allow your converting machinery to run at full speed.

An efficient BloApCo-designed air-trim system uses less air and horsepower to move cut scrap material to the collection area, cutting your energy cost.

To create the optimum system for your application, we'll ask you questions such as:

- The type and number of machines you are using
- The type of trim material: width, thickness (caliper) and density (basis weight)
- Production machine line speed
- Number of trim pickup points
- Distance to the scrap collection area



## Why A Trim Cutter?

Trim cutters enable continuous web manufacturers, slitters and converters to remove edge trim from production lines while maximizing up-time by eliminating edge trim blockages.

Trim cutters cut continuous material into small pieces that move with ease to a collection area such as a baler or compactor. Trim cutters are ideal wherever one or more edge trims are conveyed through the same duct.

Imagine conveying several continuous ribbons of material from multiple converting machines through a common duct. If you convey continuous trims without cutting them, they twist and rope. This "roping" leads to balling of edge trim as faster and slower moving trims tangle and plug the duct. This plug could be anywhere in the scrap system. Furthermore, non-tearable continuous trims being conveyed through a material handling fan wrap around the fan wheel, plugging and possibly damaging the fan.

Another major benefit: trim cutters handle a wide range of materials, including:

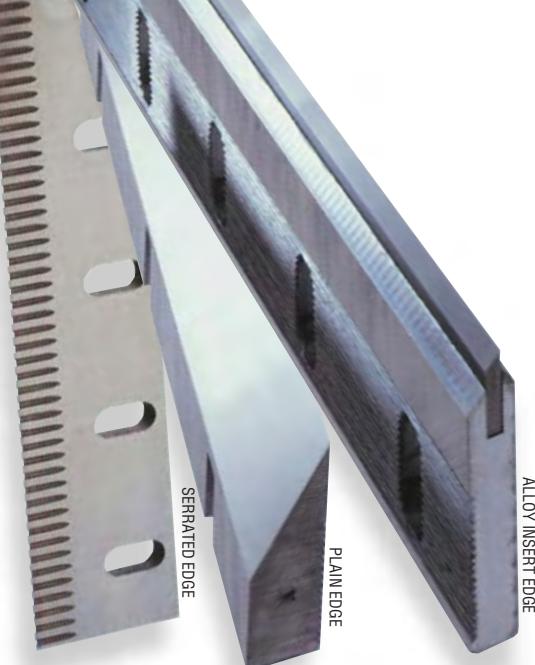
- Brass, copper and aluminum foil
- Skeletal die cuts and trims
- Corrugated board, micro flute to triple wall and honeycomb
- Laminated materials such as polycoated paper
- Non-wovens
- Plastic films
- Poly and vinyl extrusions.
- Pressure sensitive label stock
- Reinforced tapes and laminates
- Solid fiber paperboard
- Textile fibers

Now we get down to the business of selecting a trim cutter that suits your needs and maximizes machine up-time.



# Largest Family of

# Impact or Shear Cutting Actions Meet Your Challenge

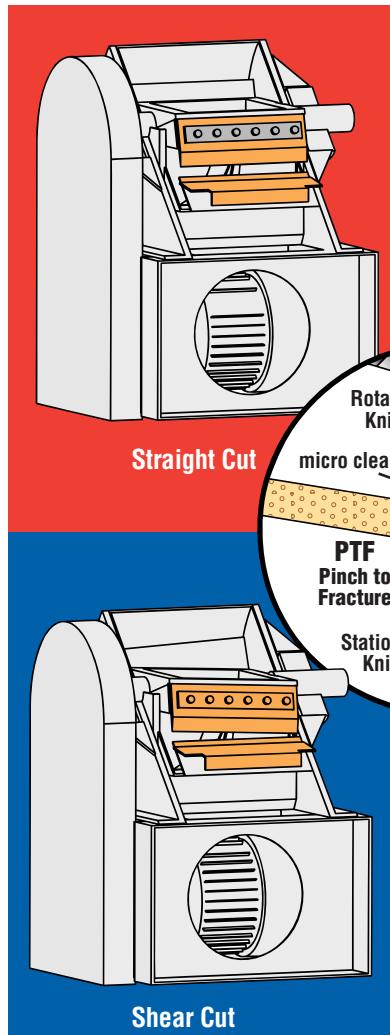


## Why a BloApCo Trim Cutter?

Simple: We have what you need.

BloApCo, a proud American material handling equipment manufacturer since 1933, offers the industry's largest family of proven trim cutters to accommodate the widest range of materials.

Be assured we have a model tailored to fit your web process.



### Straight Impact Cutter...

Trim cutters using a straight impact cut have rotating knives that are straight with respect to the stationary knife. The cutting line, between the rotating and fixed knives is uniform across the entire cutting face.

Trim cutters using a straight impact cut often are used for paper, chipboard and ridged plastics.

...and

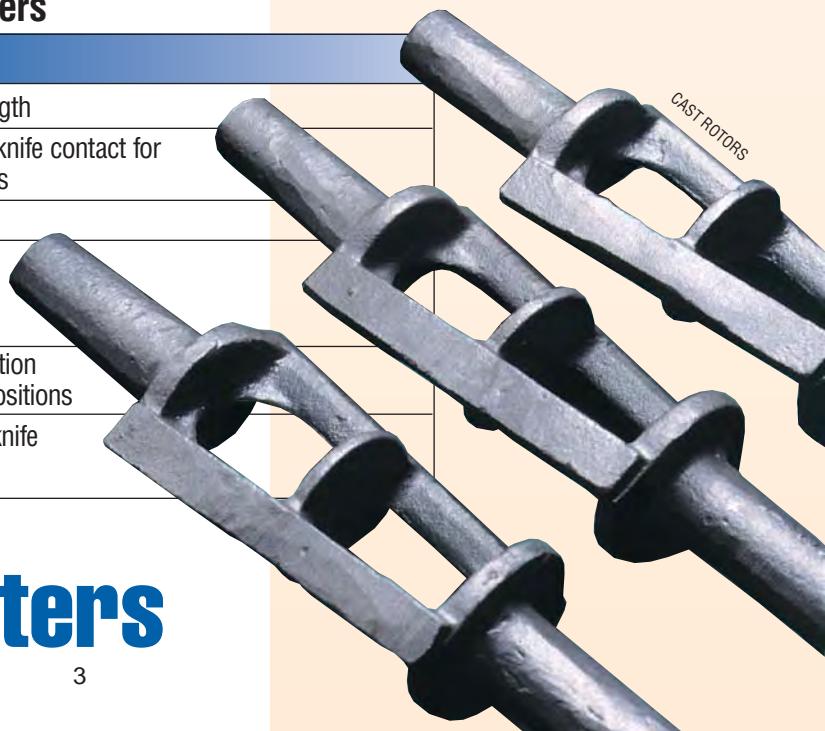
### Progressive Shear Cut Trim Cutter

Trim cutters using a progressive shear cut have canted rotating knives so the pinch, or cutting point, between the rotating and fixed knives moves from one side to the other.

The shear cut is often used for thin films and foils, fiberboard, double- and triple-walled corrugated, metals, and non-wovens.

## Key Advantages of BloApCo Trim Cutters

Feature	Benefit
Heavy cast frame and rotor	Stability and strength
Tapered roller bearings	Prevents knife-to-knife contact for ultra-close settings
Open rotors	Efficient airflow
Outboard bearing design	Prevent bearing and trim contamination
Choice of drive: belt, direct or gear motor	Infinite RPM selection and cutter head positions
Optional knives: material and profile	Perfect match of knife with trim material



## Proven Trim Cutters

## Cutters to Fit Your Needs

With over 50 basic types of trim cutter configurations, BloApCo offers the greatest variety in the industry — and the specific configuration for your scrap handling application. Drawing on decades of application experience, we will configure the correct cutter to your specific needs and guarantee that it fits your application perfectly.

# If You Can Slit It...

## Trim Thickness

**less than 1 mil (25.4 µm)**

**Ideal for:**

- light paper
- poly films
- recording tape
- Mylar
- fine nylon fibers
- non-wovens

Some models will accurately and consistently cut film as thin as 0.00025 in. (6.35 µm) with ease.



**3-20 mil (76 - 508 µm)**

**Ideal for:**

- paper
- light fiberboard
- corrugated board
- solid bleached sulfate, paperboard
- plastic film
- foil laminates
- pressure-sensitive stock
- light, non-ferrous foils



**20 mil (508 µm and up)**

**Ideal for:**

- heavy fiberboard
- solid bleached sulfate paperboard
- laminated kraft, heavy non-ferrous metal up to 0.025 in.



### Trim Cutter Guide for Converting and Manufacturing Industries\*

MODEL 7-6	MODEL 8-5	MODEL 12 SC	MODEL 3-B	MODEL 5 TOB-5 SC	MODEL 8-3
AIR CAPACITY 1,000 cfm (1,700 m³/hr)	AIR CAPACITY 4,500 cfm (7,650 m³/hr)	AIR CAPACITY 1,000 cfm (1,700 m³/hr)	AIR CAPACITY 1,000 cfm (1,700 m³/hr)	AIR CAPACITY 3,000 cfm (5,100 m³/hr)	AIR CAPACITY 4,500 cfm (7,650 m³/hr)
INLET WIDTH 7.75 in. (206 mm)	INLET WIDTH 13.5 in. (343 mm)	INLET WIDTH 7 in. (176 mm)	INLET WIDTH 6.25 in. (159 mm)	INLET WIDTH 8.5 in. (216 mm)	INLET WIDTH 13.5 in. (343 mm)
MOTOR 1 hp rpm 3,600 max	MOTOR 5 hp rpm 3,600 max	MOTOR 1 hp rpm 2,000 max	MOTOR .75 hp rpm 2,000 max	MOTOR .75 hp rpm 2,000 max	MOTOR 5 hp rpm 2,000 max

\* Guide is for comparison purposes only.  
Actual cutting capabilities may vary with specific application.

### Configuring the BloApCo Trim Cutter for Your Application

Once we have selected the proper cutter, we will need to determine:

#### Knives

**HCHC:** Used for most non-abrasive materials, including paper, poly films, pure vinyl and polystyrene.

**NEOR:** This is an upgrade from HCHC, used for mildly abrasive materials such as paper, coated paper and laminates, loaded vinyl and non-ferrous metal.

**Carbide-edge:** Used on highly abrasive and extremely thin materials, glass filaments, recording tape and plastic films.

**Serrated, NEOR-HCHC:** Primarily used on corrugated or fiberboard material, the serrated edge profile maximizes cutting force at a given horsepower.

#### Bearings

*Ball (3-B only)*

*Class "O" Tapered Roller*

*Class "OO" Tapered Roller*

#### Drives

*Direct Drive*

*Belt Drive*

*Gear Motor Drive*

#### Additional Features

*Flywheel*

*Oil Mist*

*Inlet and Outlet Fittings*

*Safety Disconnect*

*Mufflers*

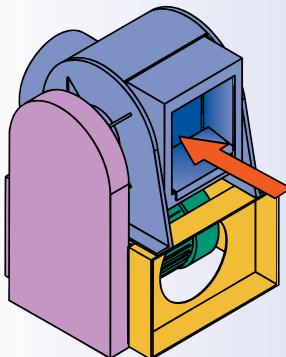
*Cutter Bases*

*Sound Enclosures*

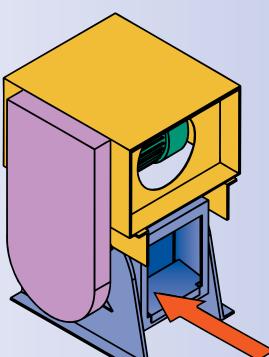
# ...We Can Cut It!®

## Arrangements

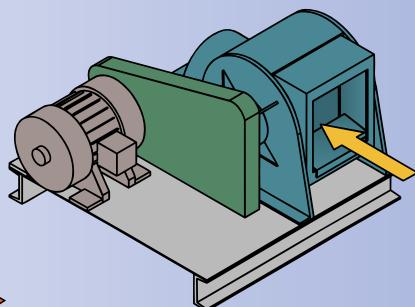
### Motor Positions



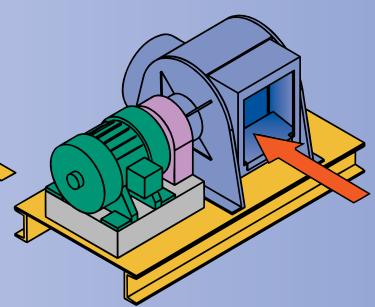
**A** Standard Cutter Arrangement



**B** Inverted Mount

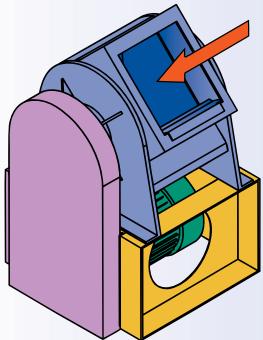


**C** Outboard Motor Mount

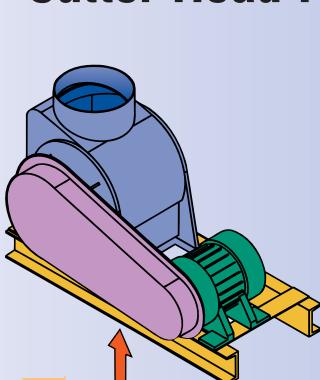


**D** Direct Drive Motor Mount

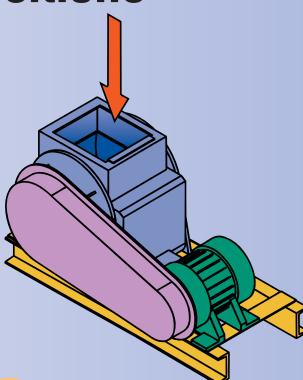
### Cutter Head Positions\*



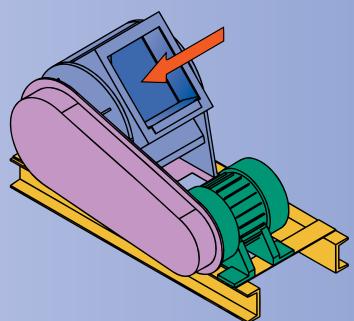
**E** Diagonal Flow,  
Standard Mount



**F** Vertical Up Flow



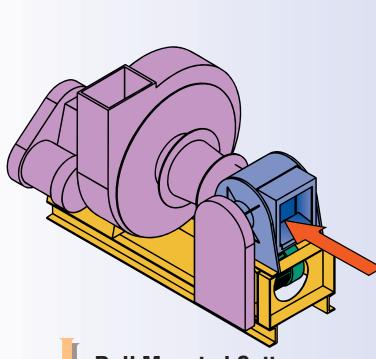
**G** Vertical Down Flow



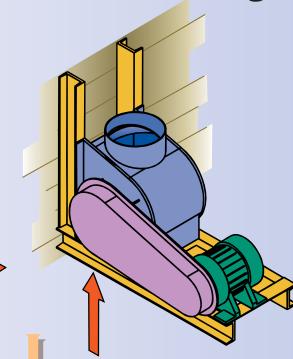
**H** Diagonal Flow,  
Inboard Motor Mount

\* Availability varies with cutter model.

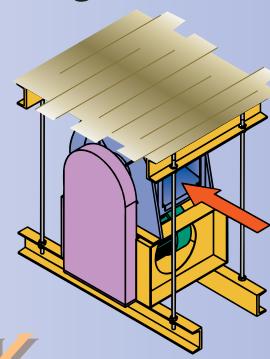
### Cutter Mounting Arrangements



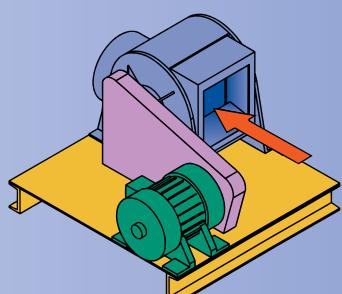
**I** Rail Mounted Cutter  
and Trim Fan



**J** Wall Mounted Cutter



**K** Ceiling Suspended Cutter

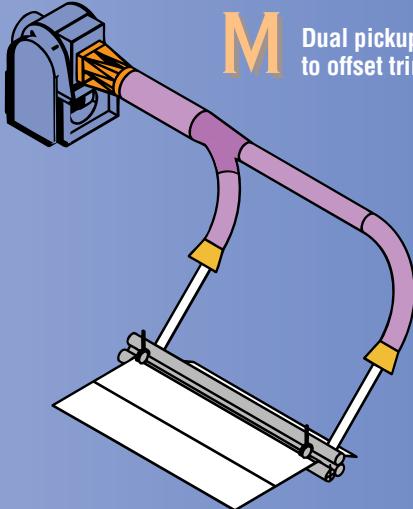


**L** Low Clearance Cutter Mount

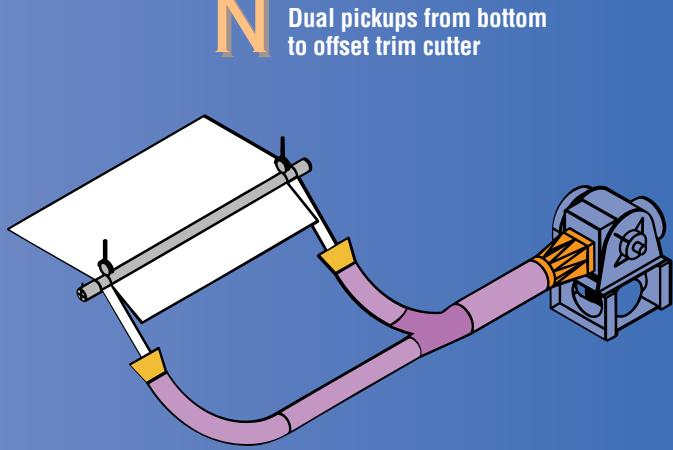
## BloApCo Trim Collection Components

Selection and placement of the various trim collection components dramatically impact a trim system's performance. Proper design and manufacture of trim system components are essential for the efficient conveyance of material from the production machinery to the trim cutter.

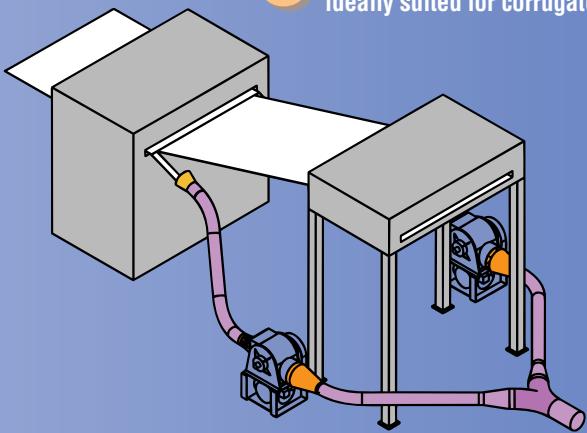
# Trim Removal



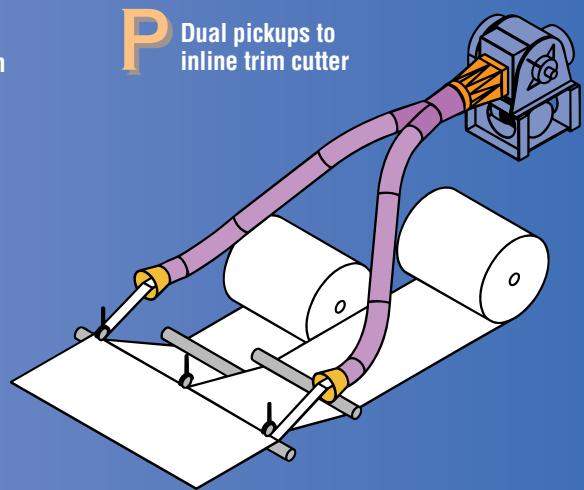
**M** Dual pickups from top to offset trim cutter



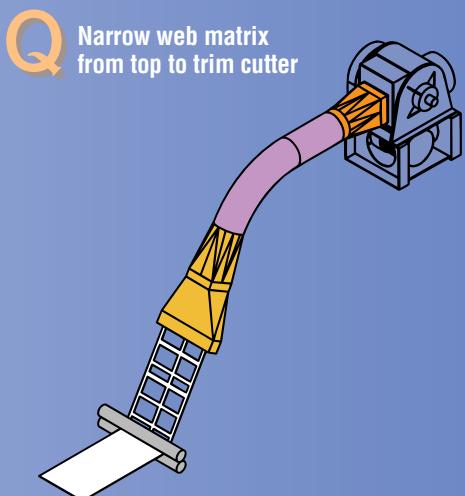
**N** Dual pickups from bottom to offset trim cutter



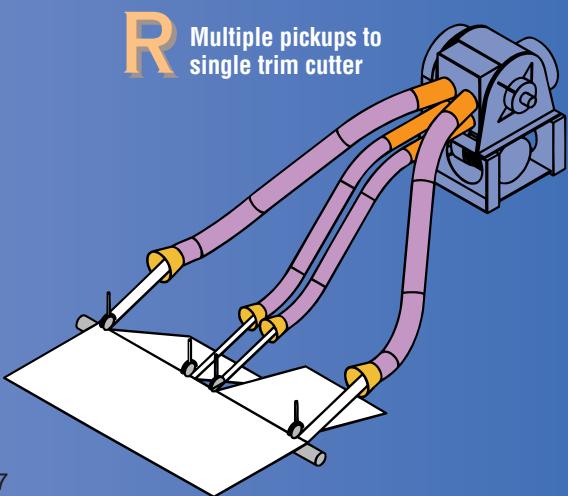
**O** Dual pickups to tandem trim cutters  
ideally suited for corrugator edge trim



**P** Dual pickups to  
inline trim cutter



**Q** Narrow web matrix  
from top to trim cutter



**R** Multiple pickups to  
single trim cutter

# Proven Family of Products

MATERIAL  
HANDLING SYSTEMS

SHREDDERS

MATERIAL  
HANDLING FANS

TRIM CUTTERS

DIVERTERS

CYCLONES/  
SEPARATORS

RETURN AIR/  
DUST COLLECTORS

BALE TRANSFER

SEAL DRUM  
CONVEYORS

PLANT UPGRADES/  
EXPANSIONS

TURNKEY SYSTEMS

The  
**Scrap  
Handling  
Technology  
of CHOICE**  
Since 1933

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## "Pierce-and-Tear" SHREDDING

- Industry's lowest noise and dust levels
- Low equipment down time and maintenance
- Annual energy savings — lower horsepower
- Improved operator ergonomics
- Greater through-put
- Improved compaction or baleability



## AUXILIARY EQUIPMENT

### Auto-Bale Transfer



- Fully automatic
- Exclusive push/pull action separates bales
- Pneumatically operated
- Auto-tie or closed door balers

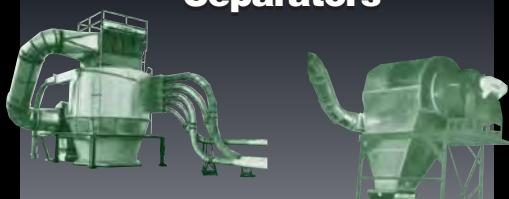
### Non-Clogging Diverters



- Operated or controlled
  - Pneumatically
  - Mechanically
  - Manually

## PNEUMATIC SYSTEMS

### Cyclones and Separators



Models from 1,000 to  
75,000 CFM

### Material Handling Fans

Models  
from  
500 to  
28,000 CFM



- Tough, brittle substrate
- Ridged materials
- Continuous web
- Non-continuous web

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