

# Industrial Cutters...



*From customer concept to engineering and manufacturing to final output -- Moline provides the cutters you need.*



- *Wide variety to suit your application.*
- *Quick turnaround from concept to manufacture.*
- *Several materials and coatings available.*
- *Engineered to help you achieve your production goals.*

*Moline industrial cutters are precision machined to customer specification for accurate, efficient cutting, easy sanitation and positive dough release.*

*As a manufacturer of both cutters and cutting equipment, Moline is uniquely positioned to offer years of design experience and integration along with excel-*

*lent value. Moline cutters are accurately machined to high tolerances in a wide variety of styles and product shapes. The result is a durable cutter made for rigorous use in commercial bakeries. Options include air ejection, trim stripping bands, special coatings and other designs for enhanced dough release.*



## **Moline Machinery LLC**

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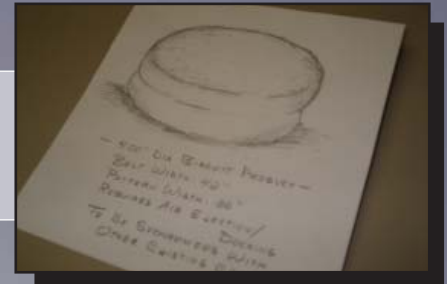
www.moline.com • sales@moline.com



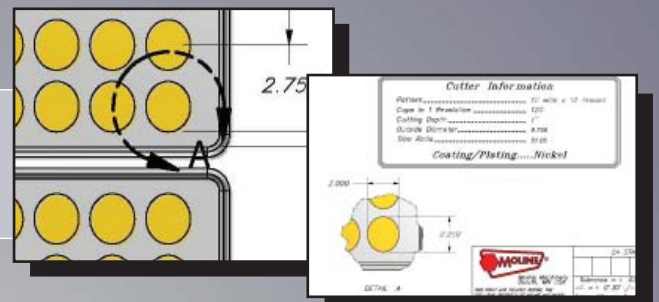
# Industrial Cutters...

## The Process...

1 The customer contacts Moline with cutter and product specifications, including a product sketch...



2 Moline engineers create a drawing and program per customer specification...



3 If necessary, a prototype is produced and testing is performed by the customer...



4 Once the design is approved, the final cutter is produced via CNC machining...



5 Production begins. Efficiencies and production rates increase. Cost effectiveness improves. Product quality is optimized.





# Industrial Cutters...

## Design Options

### **Positive Trim Stripping**

Trim dough web from thick, high-moisture formulations can lift, wrapping around the cutter. Stripping bands (shown below) prevent this from occurring, maintaining smooth trim travel after cutting.



### **Air Ejection**

Air ejection provides positive dough release. Compressed air from the production system's supply source is routed through the cutter, exiting through machined orifices in each cutter cup.



### **Hexagon Scrapless Cutters**

Scrapless cutters simplify production and increase output by eliminating trim dough web. If you are presently using a round cutter, order the next size smaller in the hexagon scrapless style to obtain an equivalent product size.



### **Industrial Docking**

Dockers are used to aerate and de-gas the dough during production by evenly perforating the surface with rows of stainless steel pins rotating on a shaft. The version shown below contains optional trim stripping bands as well.



**See our website for information on retail and specialty cutters, cutting stations and other equipment:**

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



# Industrial Cutters...

## Construction Materials

- 6061-T6 Aluminum
- HDPE Plastic
- Stainless Steel
- 1026 Mild Steel with Nickel Plating

## Optional Coatings

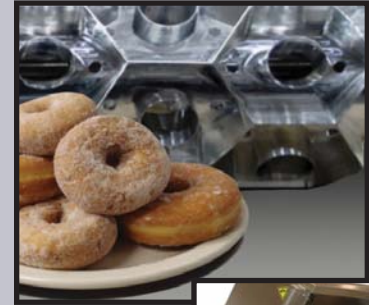
- Nickel Plating
- Electroless Nickel Plating
- Teflon (or other nonstick coatings)

## Construction Techniques

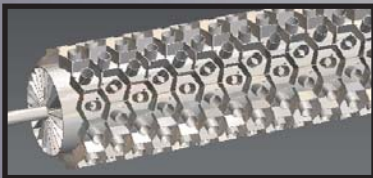
With five CNC mills and complete machine shop facilities, Moline provides fast service and top quality equipment.

## Engineering Staff

Our skilled engineering staff guides you through the cutter design phase using the latest software and technology for optimum end results.

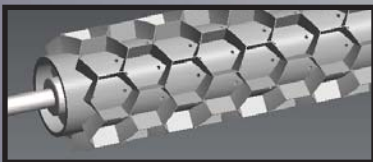
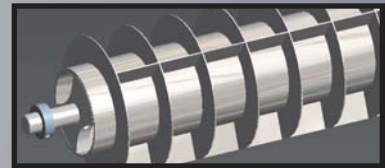


# Moline Has A Cutter to Suit Your Production Needs



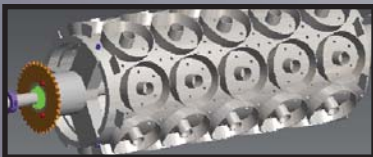
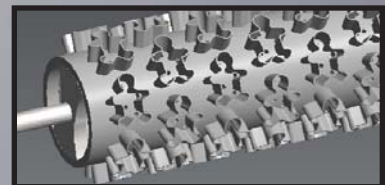
**Scrapless Hex Donut Cutter**  
Used for cutting yeast-raised donuts. The hex pattern eliminates trim dough web.

**Rectangular Cutter**  
This rectangular cutter is used for cutting long johns, hot dog buns, sticks and bars.



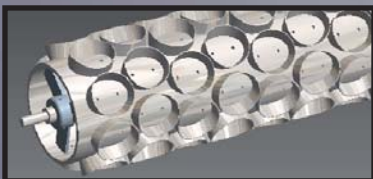
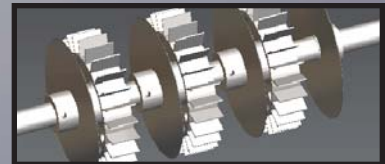
**Scrapless Hex Biscuit Cutter**  
Used for cutting biscuits and bismarks. The hex pattern eliminates trim dough web.

**Specialty Cutter**  
Custom-built to customer's product specification (gingerbread shown).



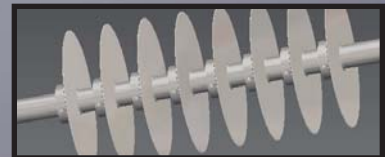
**Round Donut Cutter**  
The round donut cutter is used for cutting yeast-raised donuts, and some bagel products.

**Strudel/Bear Claw Cutter**  
Adjustable cutter positions. 3/4" bear claw section spacing with 1-1/4" long blades.



**Round Biscuit Cutter**  
Used for cutting rolls, biscuits bismarks, flatbread and bagel products.

**Strip Cutter**  
Adjustable stainless steel cutting blades for dough sheet strip cutting.



**Triangle Cutter**  
Used for cutting croissants, scones and other triangle-shaped specialty products.

**Oval Cutter**  
Used for cutting tortillas, pizza crusts, flatbreads, etc.

