

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

114 South Central Avenue • Duluth, Minnesota, USA, 55807

218-624-5734 • 800-767-5734

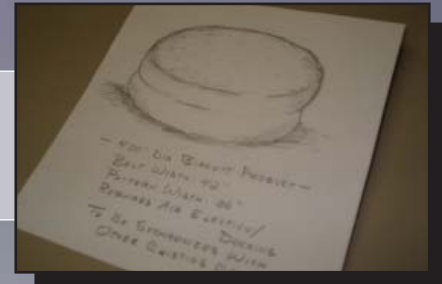
www.moline.com • sales@moline.com



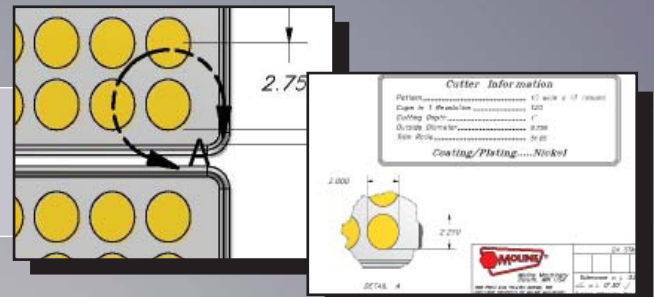
Industrial Cutters...

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.



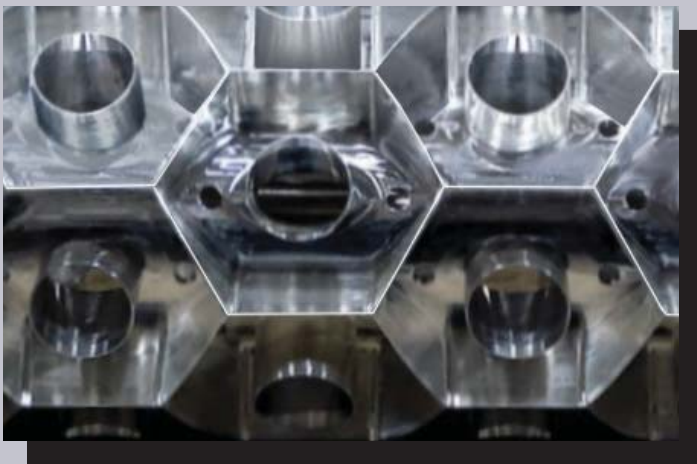
Air Ejection

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



Industrial Cutters...

Construction Materials

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

Optional Coatings

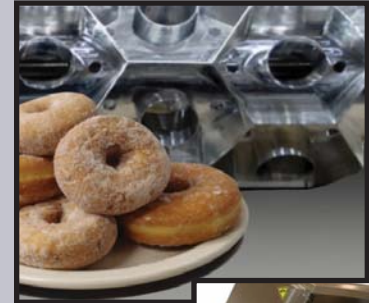
- Nickel Plating
- Electroless Nickel Plating
- Teflon (or other nonstick coatings)

Construction Techniques

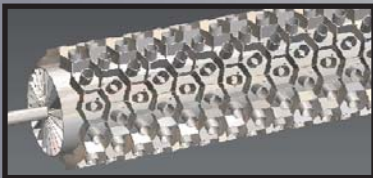
With five CNC mills and complete machine shop facilities, Moline provides fast service and top quality equipment.

Engineering Staff

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

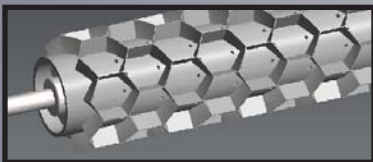
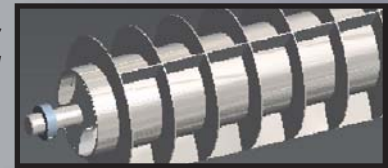


Moline Has A Cutter to Suit Your Production Needs



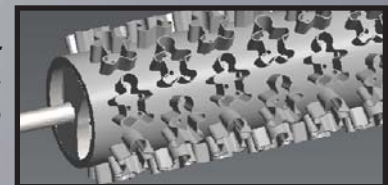
Scrapless Hex Donut Cutter
Used for cutting yeast-raised donuts. The hex pattern eliminates trim dough web.

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



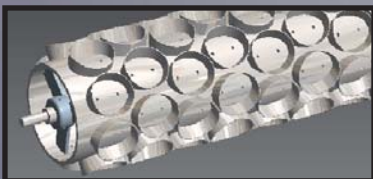
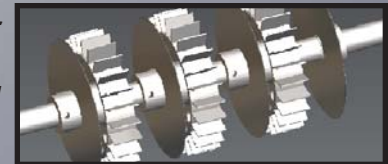
Scrapless Hex Biscuit Cutter
Used for cutting biscuits and bismarks. The hex pattern eliminates trim dough web.

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



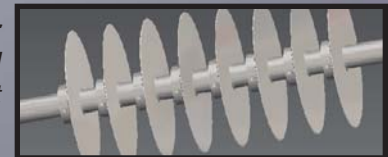
Round Donut Cutter
The round donut cutter is used for cutting yeast-raised donuts, and some bagel products.

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.

