



The Hendrick motto is proudly displayed in the lobby of Hendrick Manufacturing in Carbondale, PA

The Hendrick Motto:

"Do the right thing," was coined by Michael L. Drake during his tenure as president of the Hendrick Companies. It inspires every employee to do their best, be honest, respectful, and to interact with others with integrity. It embodies Hendrick's commitment to our customers, vendors and employees to always do the right thing.

Since 1876, Hendrick has been innovating perforated metal solutions for a wide range of industries. Our expertise is unparalleled in the industry. The broad based knowledge that comes from working with multiple industries gives us a unique perspective on the latest manufacturing technologies and applications.

Our capabilities go way beyond perforation. We offer an array of high-tech fabrication options that can eliminate labor, time, and provide cost-savings for your completed assembly. Plus, our extensive range of services go one step further with partial to complete turn-key contract assembly operations.

YOUR PERFORATION AND FABRICATION EXPERTS



WHY HENDRICK

Hendrick

What Makes Hendrick a Reliable Supplier?

Inception Date

1876

Over 145 years of perforating and fabrication experience, providing quality you can trust.

Raw Material

30m+

In annual purchases. This purchasing power assures you access to metal during shortages.

Industries Served

20+

Hendrick's depth of experience assures that you get products that match your needs.

Customer Satisfaction Score

94%

Based on 108 completed surveys between 2021 and 2023.

Average Employee Tenure

11 Years

Offering you knowledge and experience for excellent quality and service.

High Speed All Across Punch Presses

9

This is our core capability, providing the fastest and most economical perforating method. MANUFACTURING FOOTPRINT

125 K SQ FT

Employing an impressive array of machines, Hendrick uses the latest manufacturing technologies.

ISO 9001 Certification

2015

Hendrick's built-in Quality and Lean approach assures you'll get satisfaction with every order.

Perforating Patterns

2000+

In addition to our existing library of options, we can work with you to design a custom pattern.

Other Benefits

Flexible Supply Chain

- · Vendor managed inventory
- Kanban
- Consignment raw material or finished product
- ·JIT
- Blanket order contracts
- Toll processing

Financial Strength

- Disciplined cost focus
- · Solid operating results

Vertical Integration

- In-house tooling capabilities (design and manufacturing)
- In-house punch manufacturing

Lean Committed

- · Dedicated lean resources
- Continuous, best practice lean events company-wide

Family Owned

- · Privately held
- Nimble-quick decisions

CAPABILITIES

Engineering and design support services

From basic projects, to those requiring complex and challenging solutions, Hendrick provides quality driven design assistance. We promote collaboration with our customers' engineers at each stage in the product life cycle.

Services include:

- Prototyping and production engineering support
- Revision control and product data management throughout the production cycle
- Design assistance for manufacturability and cost savings

Design and value engineering assistance is offered, providing a cost-effective approach to production.

Drafting Software

Solidworks Professional

- Creating 3D Part and Assembly Models
- · Part Fitment Verification
- Creating Technical Drawings for use in Production
- Outputting Flat Patterns for Punching and Laser Cutting
- Determining weight of raw material and finished products

AutoCAD

- Creating 2D Part and Assembly Drawings
- Creating Technical drawings for use in Production
- Creating Flat patterns for Punching and Laser Cutting
- Perforation Tooling Design

CAPABILITIES

Hendrick

Material Options

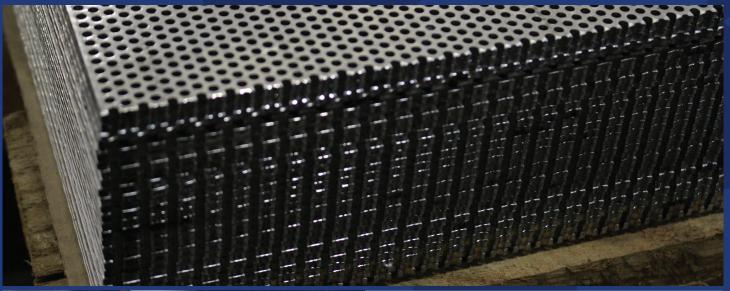
We maintain a large inventory of popular raw materials in stock, in both sheets and coils, providing you with buying power that leads to very competitive pricing and shortened lead times.

Plus, our no-minimum order policy offers the same fast delivery and lower pricing on small to medium volume orders.

Tooling

With hundreds of precision highspeed perforating tools available, we can readily produce most hole pattern requirements.

Hendrick's in-house manufacturing of tools and punches assure that tooling can be made for custom jobs.





Aluminum

• 3003, 5052, 6061, plus more

Cold Rolled Steel Hot Rolled Steel Galvanized Steel

• G90, G60, E.G. plus more

Stainless Steel

• 304, 316, 430, plus more

Plus copper, brass, monel, plastic and more!

Hendrick MANUFACTURING

INDUSTRIES

Industries We Serve

Quality materials for diverse applications

Hendrick supplies perforated metal and fabrication to over 20 end markets across the globe, both directly and through our distribution channel partners. Whether you fit one of our major industries or a smaller, niche market, we have the manufacturing expertise and flexibility to provide quality materials for diverse and demanding applications.

- Acoustical
- Agricultural
- Architectural
- Automotive
- Commercial Lighting
- Conveyor Flights
- Distribution
- Electronic
- Environmental
- Filtration
- Food Processing

D. Speaker Grill

Hammer & Powder Mill

A. Fan Tray for Telecom Chassis

C. Coffee Roaster Cooling Tray

B. Medical Incubator Tray

E. Gondola Wall Panel F. Automotive Truck Grill

HVAC

- Industrial Equipment
- Medical
- Mining & Aggregate
- Recycling
- Retail
- Security
- Telecommunications
- Transportation







Get Industry Specific Information



PERFORATING

Hendrick

All-Across, High Speed Perforating Presses

All-across perforating presses provide a unique method of producing holes in metal quickly and economically. Unlike other perforating methods, Hendrick's all-across equipment can punch multiple rows of holes across the sheet, up to 60" wide, in one single stroke—and is capable of punching up to 600 strokes per minute. The equipment automatically feeds material and punches to complete a sheet extremely quickly. It's such an efficient way to perforate, other metal fabricators come to Hendrick for projects that require perforating to minimize their costs.

Unlimited patterns in round, square, slotted, ellipse, hexagon and a variety of decorative patterns.

- Perforation sizes from 0.027" in diameter and up
- Thicknesses ranging from .002" to 0.25"
- · Perforate in sheet or coil



Get Industry
Specific Information

Additional In-House Perforating Services:

- Shearing
- Degreasing
- Leveling
- Knotching
- Forming
- Deburring
- Polishing



PERFORATING

Perforating for Low-Medium Volume Production or Unique Patterns

For low volume or custom patterns, Hendrick can service your needs with our state-of-the-art CNC punch equipment. With punching equipment ranging from 20 to 50 tons, presses can produce components that are up to 60" wide and up to 3/8" thick. Meeting tight tolerances is not an issue. Plus, our punch/plasma combination machines can perform multiple operations that can reduce production costs.



"Hendrick's latest punching equipment provides amazing quality and speed—up to 1600 strokes/min."

Get Industry
Specific Information



FABRICATING



Our Broad Range of Capabilities

Hendrick offers a full-line of sheet metal fabrication capabilities with dedicated equipment and experienced staff. We specialize in low to medium volume work, whether its value-add to our perforating process or a project that uses our complete end-to-end fabricating capabilities. Regardless of size, volume or material, our fabrication options can eliminate labor, time, and provide cost-savings for your completed assembly.

- Significant tool library
- Large to small components
- Prototype to production
- Partial to complete turn-key contract assembly operations

Multiple Fabrication Services Available

- Punching
- Bending
- Notching
- Rolling
- Drilling
- Water Jetting
- Laser Cutting & Etching Polishing
- Plasma Cutting
- MIG & TIG Welding

- Spot Welding
- · Hardware Insertion
- Heat Treating
- Turning
- Tapping
- Grinding
- Assembly
- Stamping



Forming	Whether you require one bend or need complex multiple bends, Hendrick can flawlessly form your parts to your exact drawing specifications.	Stainless Steel (.020" to .250") CRS (.020" to .375") Galvinized, Aluminized, Copper, & Brass (Call for info)
Punching	From high speed punching to our combo punch and laser equipment, Hendrick has the technology to deliver.	Aluminum (.020" to .500") Stainless Steel (.020" to .250") CRS (.020" to .375") Galvinized, Aluminized, Copper, & Brass (Call for info)
Laser	The 8kW of fiber laser technology produces the fastest processing speeds with a high level of accuracy and unsurpassed quality with tolerances down to +/005.	Aluminum - to 1" Stainless steel - to 1.5" Mild steel - to 1" Copper – to .390" Brass – to .390"
Welding	Hendrick offers welding support for small weldments to heavy plate welding fabrications to complete your component assembly.	TIG, MIG, Spot, Stud Heavy plate or thin gauge Most alloys, including carbon steel, stainless steel, and aluminum.

FABRICATING

8kw Fiber Laser Cutting

With 8kW of laser cutting power, we've removed several obstacles for precise, custom designs when cutting metal. This latest in laser technology produces the fastest processing speeds, a high level of accuracy with toler-ances down to +/- .005 and unsurpassed quality. Plus, we've broken the barrier for material gauge. The maximum sheet size is 84" x 160".



Hendrick's 8kW laser produces clean, smooth edges and no material warping.

Hendrick MANUFACTURING

How to Order Perforated Material

Hendrick offers an unlimited number of pattern configurations in a wide range of materials. To assure quick and accurate quoting or delivery, please refer to these guidelines when ordering Hendrick's perforated materials.

Material – Indicate the type of material required and thickness or gauge. See page 6 for a list of Hendrick's raw materials. Other metals and plastics are available.

Quantity – Indicate number of sheets or linear length of coil required.

Sheet Size – Provide width and length. We can accommodate any size up to 60" wide.

Common sheet widths: 36", 48" and 60". Common sheet lengths: 96", 120" and 144".

Specify Hole Specs

1. Hole Shape



Round





Slotted



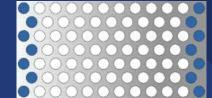


2. Pattern Arrangement

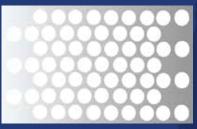
Unfinished or Finished **End Pattern**

* Pattern is based on a tworow tool. The end pattern for a four or eight-row tool may have a different appearance.





Staggered Pattern, 60° (Standard) or 45°



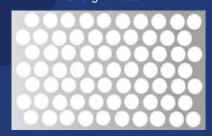
Unfinished End Pattern*



Specialty



Straight Pattern



Finished Pattern

HOW TO ORDER PERFORATED MATERIAL

3. The hole size in inches**









Contact Hendrick for Special Patterns

Round

Square

Slotted

Hexagon

4. The hole centers (distance from the center of one hole to the center of the nearest hole in the next adjoining row) in inches.**









Contact Hendrick for Special Patterns

Round

Square

Slotted

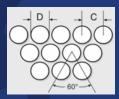
Hexagon

**Note: Industry standards recommend not making the distance between holes smaller than the material thickness. If you a smaller distance, contact Hendrick to discuss your needs.

Provide Open Areas

Provide the open area (total hole area, compared to sheet size) on the perforated sheet, indicated by percent. Typical open areas range from 2 to 80%, however 70% and higher can distort the material.

Round - 60° Staggered Center



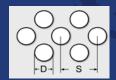
D²x90.69

Hexagon



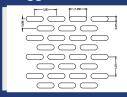
100 x D²

Round - 45° Staggered Center



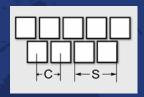
157.08x D²

Round End Slot - Staggered Center



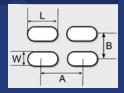
W(L-.215W) x100

Square – Straight or 45° Staggered Center



157.08x D²

Round End Slot - Straight Center

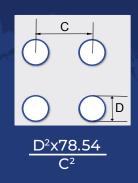


W(L-.215W) x100

HOW TO ORDER PERFORATED MATERIAL

Hendrick

Round - Straight Centers



Square End Slot -Staggered or Straight Centers



Make it Easy!



Visit Hendrick's Online Open Area Calculator Page

Specify Margins

Indicate the areas around the sheet which are un-perforated. Specify "Minimum" or "No Margins" when it's not important. When margins are required, state the margins for each side of the sheet. Wider margins can lead to distortion and may require additional leveling, increasing costs.

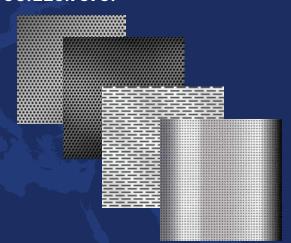
Provide Additional Information

- 1. Forming Provide forming operations that will be required to ensure formability of the sheet.
- 2. Finishing If additional finishing is required to achieve a decorative appearance, durability or protection.
- 3. End use Our experienced engineering staff will review your design to assure all your end requirements are met.

Regardless of order size, small to large, Hendrick partners with our customers to optimize designs for improved quality, functionality and cost-savings.

PATTERN SAMPLES

A wide selection of perforated patterns are available in a variety of shapes, sizes and materials. The following pages provide a quick reference of Hendrick's popular perforated pattern options. If you don't see what you need, contact a sales representative to discuss your requirements at 800.225.7373.



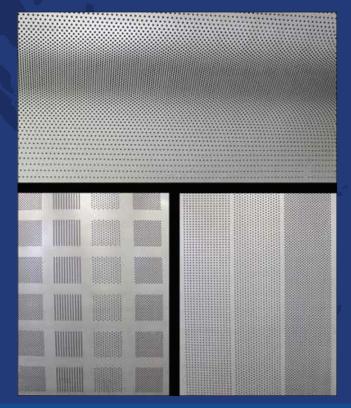
Visit Hendrick's Searchable Database of 100+ Popular Patterns & Download PDF/CAD Files of Any Pattern



UNIQUE PATTERNS AVAILABLE

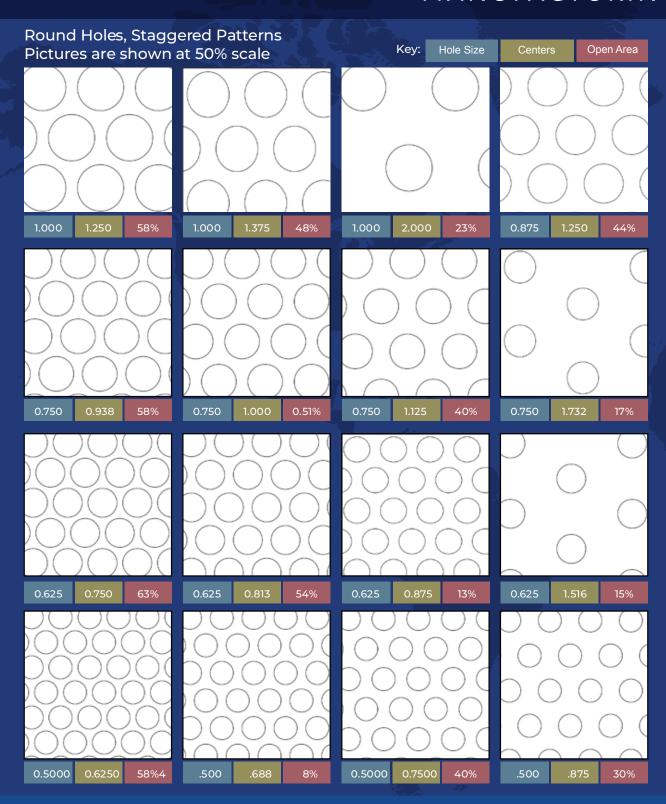
Hendrick is now capable of providing unique patterns on our high-speed, multi-punch Perforating Presses. No special tooling is required to punch these distinct patterns. Our software control systems and multi-stage gagging produces the custom patterns, all in the same set up for a truly distinctive look.

Hendrick is the only perforator in North America who has the capabilities of producing these unique patterns using a high-speed press.

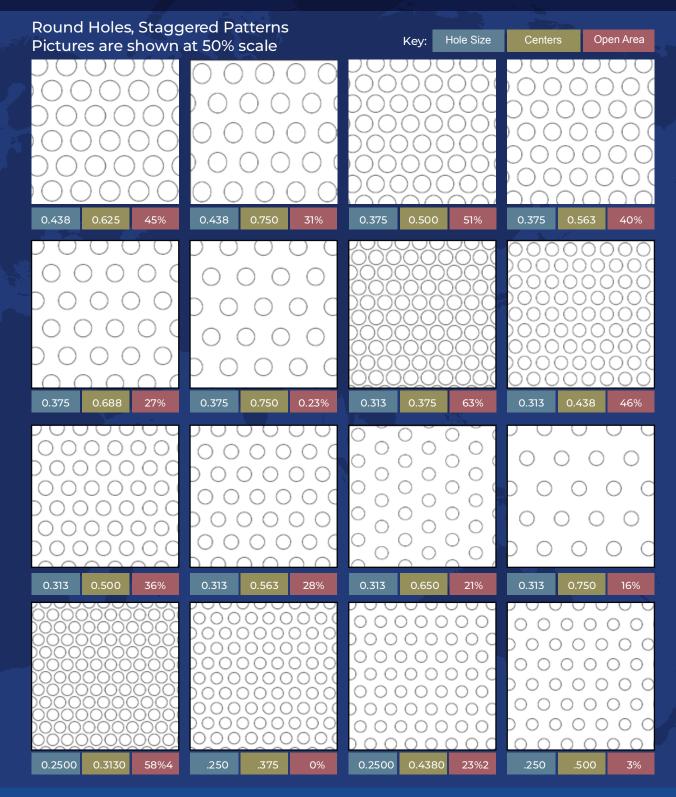


PATTERN SAMPLES Hendrick

MANUFACTURING

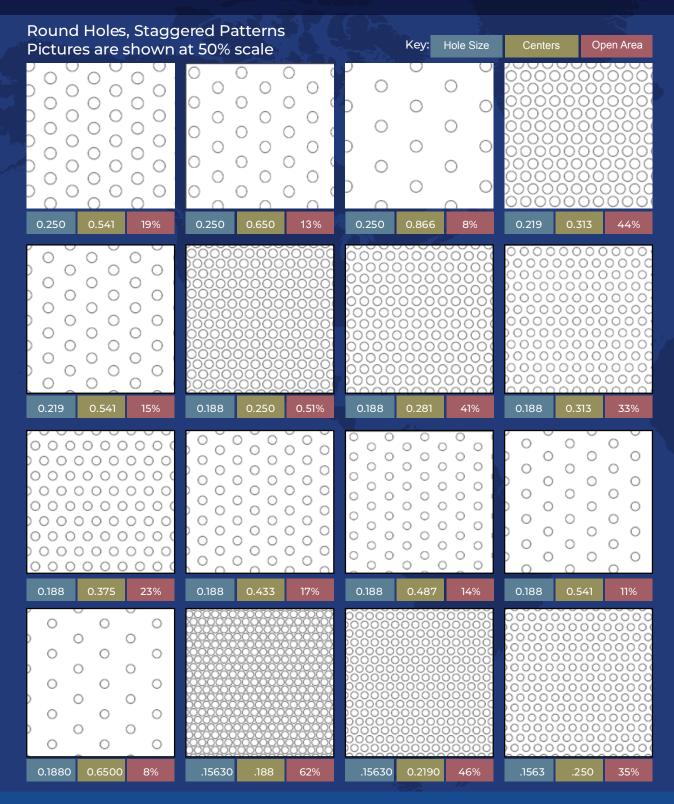


PATTERN SAMPLES



PATTERN SAMPLES

Hendrick



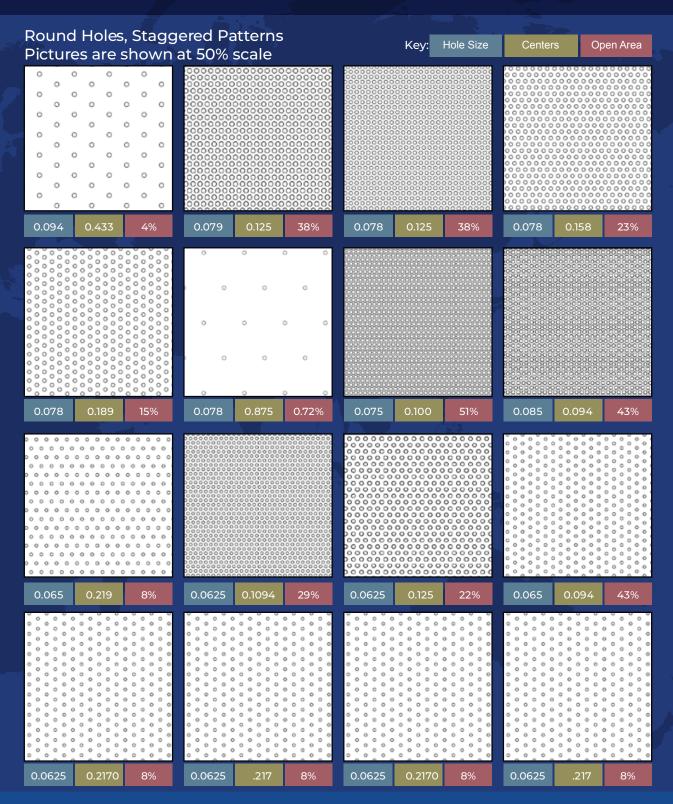
PATTERN SAMPLES



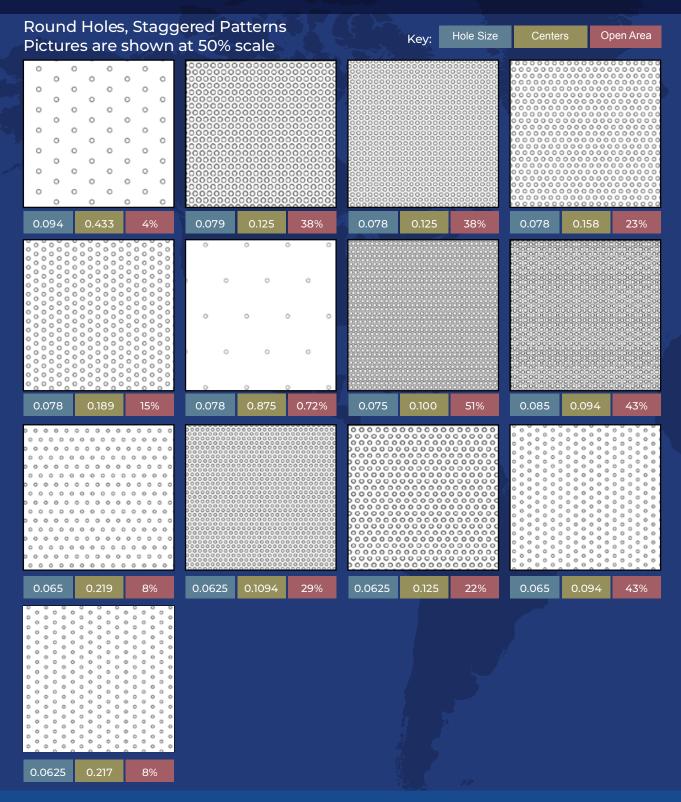
PATTERN SAMPLES Hendrick MANUFACTURING

Dound Holes Stage	gorod Dattorns		
Round Holes, Stage Pictures are shown		Key: Hole Size	Centers Open Area
0.125 0.325 13%	0.125 0.375 10%	0.125 0.379 10%	0.125 0.433 8%
0.117 0.156 51%	0.117 0.271 17%	0.109 0.156 44%	0.109 0.172 36%
00000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000
	000000000000000		0.094 0.156 33%
000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000

PATTERN SAMPLES

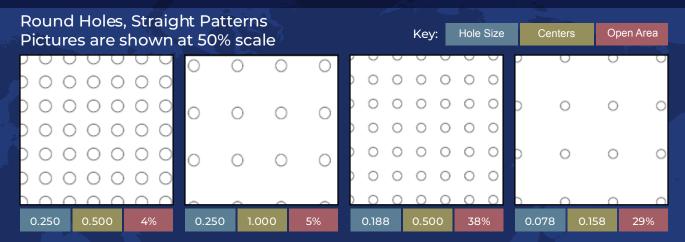


PATTERN SAMPLES Hendrick MANUFACTURING

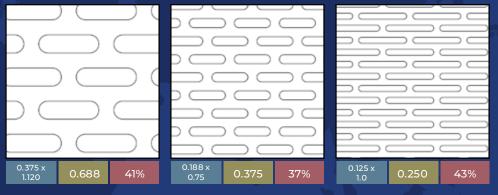


PATTERN SAMPLES

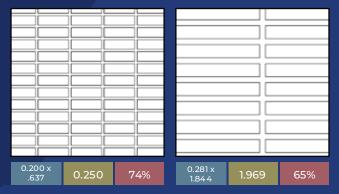
MANUFACTURING



Slotted Holes, Stagggered Patterns



Slotted Holes, Straight Patterns



PATTERN SAMPLES Hendrick MANUFACTURING



PATTERN SAMPLES

Square Holes, Straight Patterns Hole Size Open Area Pictures are shown at 50% scale 0.250 0.250 0.375 x 1.120 Other Patterns Diamond (Left) Ellipse (Center) Hexagon (Right) 0.313 x 0.875 0.250 x 0.750 0.281 Cloverleaf (Left) Malcane (Center) Minicane (Right) 0.281 x 1.84 4 36%

800.225.7373

Hendrick delivers solutions that give you the competitive edge.

DONT SEE WHAT YOU NEED?

Hendrick has hundreds of perforation tools in stock or we can build a tool to suit your needs!

Contact a sales representative to discuss your application at **800-225-7373**.







Perforating & Fabrication

Hendrick Manufacturing

1 Seventh Avenue Carbondale, PA 18407 Phone: 800-225-7373 Fax: 570-282-1506

Screen Solutions

Hendrick Screen Company

3047 Medley Road Owensboro, KY 42301 Phone: 270-685-5138 www.hendrickscreen.com screen@hendrickcorp.com

Architectural Metals

Hendrick Architectural

1 Seventh Avenue Carbondale, PA 18407 Phone: 877-840-0881 www.hendrickarch.com arch@hendrickcorp.com













