




# & MONROE HINGE STAMPING

Piano Continuous • Butt Hinge • Heavy Duty • Mil-Spec hinge • Loose Joint Hinge • Plastic Living Hinge • Formed Hinge • Strap • Plastic Hinge • T-Hinge • Weld-On • Custom

2990 Technology Drive  
Rochester Hills, MI 48309

 **AS9100D** | PH: 888-695-1754 | sales@askmonroe.com  
**ISO 9001:2015** | FX: 800-453-9683 | www.monroehinge.com

# ABOUT US

Monroe specializes in the manufacturing of a variety of hinge types including: continuous hinge, piano hinge, butt hinge, plastic piano hinge and custom designed hinges. We also provide related hardware and stamping.

Materials used in our manufacturing process include: steel, galvanized steel, stainless steel, brass, aluminum, and bright stainless steel.

We are equipped to produce special and fabricated hinges and perform such operations as hole punching, forming, offsetting, notching, countersinking, finishing and plating.

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AMERICAN HINGE MAKERS

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# How can we help?



Here at Monroe, we take great pride in our commitment to quality, value and service. We are proud of our extensive line of stock hinges as well as our custom manufacturing capabilities. Our skilled team members offers a wide variety of services to help meet your needs.

We place great value on forming strong, lasting customer relationships. Our goal is to help you with your "problem of the day". Please give us a chance to earn your business.

<b>General Hinge Specs</b> 	<b>Hinge Styles</b> 	<b>Hinge Styles 2</b> 
<b>Custom Hinge</b> 	<b>Hinge Assembly Formation</b> 	<b>Our Capabilities</b> 
<b>Industries Served</b> 	<b>Quality</b> 	

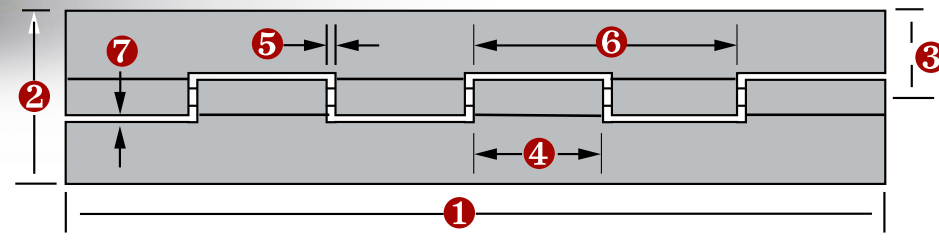
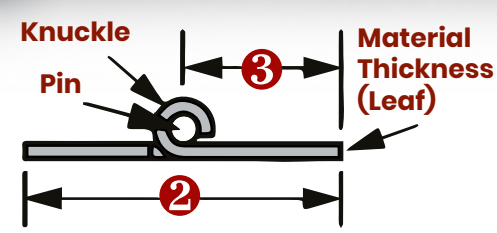
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# MONROE HINGE

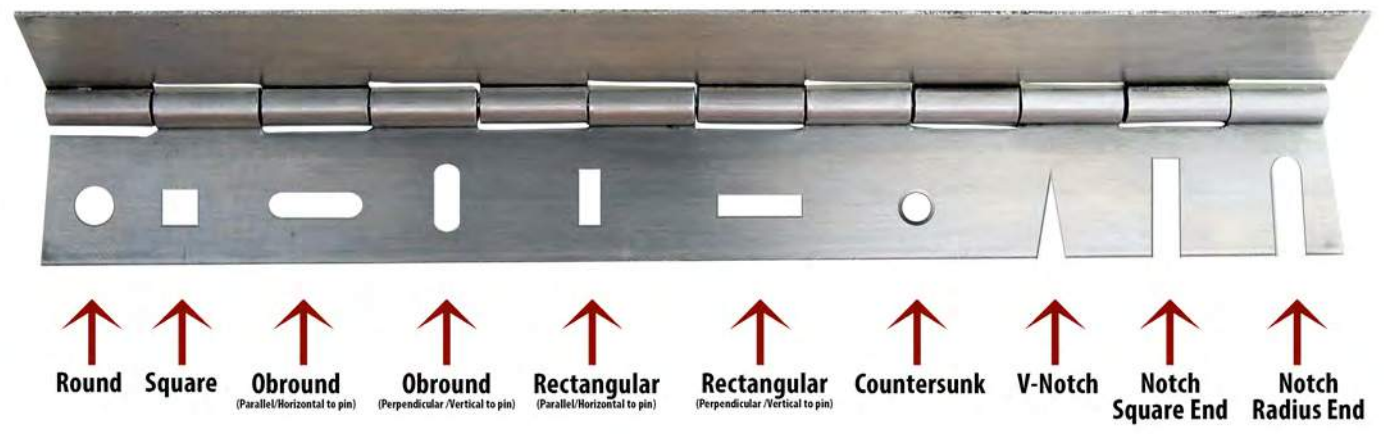
## GENERAL HINGE SPECS



- 1 Hinge Length** - The length of the leaves measured parallel to the pin.
- 2 Hinge Width** - The overall dimension of the leaves measured across the knuckle.
- 3 Leaf Width** - Dimension from the center of the pin to the outer edge of the leaf.
- 4 Knuckle Length** - The nominal or typical dimension of the knuckle measured parallel to the pin.

- 5 End Play** - The amount of axial movement that is between the leaves.
- 6 Pitch** - The dimension from a point on the knuckle to the same point on an adjacent knuckle on the same leaf.
- 7 Paint Clearance** - The minimum dimension between the outer face of the knuckle and the opposing edge of the leaf cut out over the entire range of pivotal movement of the hinge.

- Things to **SPECIFY** when ordering
- ◆ Series Number (If known)
  - ◆ Material Thickness and Type
  - ◆ Hinge Length
  - ◆ Open Width
  - ◆ Knuckle Length
  - ◆ Pin Diameter
  - ◆ Staked or Not Staked
  - ◆ Finish Required
  - ◆ Hinges with Holes
    - If yes, what size and are they countersunk or not?
  - ◆ Quantity



**Request Quote**  
1-888-695-1754

## MONROE PIANO CONTINUOUS HINGE

Monroe is the piano hinge (continuous hinge) specialist. We have a large selection of standard piano hinges and can manufacture any variety of specialty piano hinges to suit your needs. The piano design allows the hinge to hold more of the object it is attached to and provide better support. They are available in six or seven foot lengths in a variety of materials including steel, stainless steel, aluminum, as well as plastic.

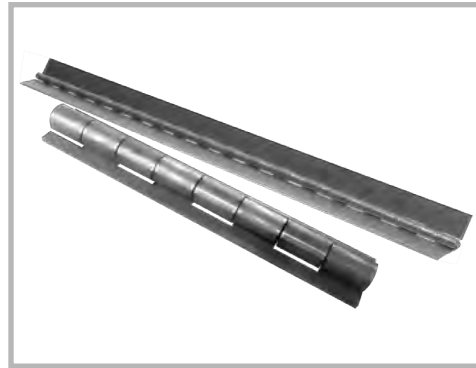
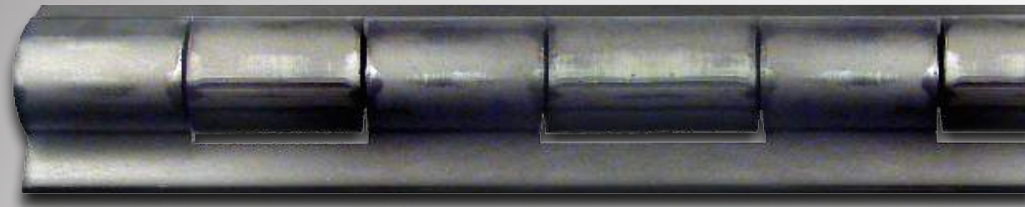
### Please Note

- All Monroe steel piano hinges are constructed of commercial grade materials.
- We deliver custom ordered steel piano hinges in 2 to 6 weeks based upon type of customization.
- Monroe recommends keeping piano hinge lengths a multiple of knuckle length to ensure a freely rotating pin.

**If piano/continuous hinges are what you are looking for, Monroe can supply your business. With short lead times and strong in-stock position, we're on it.**

Monroe Piano Continuous Hinge Series				*All our steel piano/continuous hinges (except stop hinges) open a full 270°.	
<b>M1435</b> Low gauge, small open width, and small knuckle for light weight industrial applications	<b>M1240</b> Low gauge, medium open width, and medium knuckle for light to medium industrial applications	<b>M1250</b> Medium gauge, medium to large open width, and large knuckle for light to medium industrial applications	<b>M1260</b> Large gauge, medium to large open width, and large knuckle for medium to heavy industrial applications	<b>M1267</b> Large gauge Stainless Steel, medium to large open width, and a large knuckle for medium to heavy industrial applications	<b>M747</b> Heavy gauge, large open width, medium to large pin, and large knuckle for heavy duty industrial applications
<b>M741</b> Heavy gauge Stainless Steel, large open width, and large knuckle for heavy duty industrial applications	<b>M1247</b> Customizable hinge providing heavy gauge Stainless Steel, large open widths, and medium knuckle for medium to heavy duty industrial applications	<b>M901</b> Heavy gauge Stainless Steel, large open width, and large knuckle for heavy duty industrial applications	<b>M902 and M1210</b> Customizable hinge providing a heavy gauge Stainless Steel, large open width, and heavy-duty knuckle for heavy duty industrial applications	<b>M1125</b> Heavy gauge Stainless Steel, large to extra-large open width, and large knuckle for extreme industrial applications	<b>M1110 and M1120</b> Heavy gauge Stainless Steel, extra-large open width, and heavy knuckle for heavy to extreme industrial applications

# HINGE STYLES



## PIANO/CONTINUOUS HINGE

Continuous hinges are made with two independent leaves. Generally they are 6 inches or longer in length but are otherwise similar to butt type hinges. Continuous hinges can be modified in many different ways to fit your exact needs.

At Monroe Hinge, we offer a wide variety of continuous hinges in gauges from .025 to .375 inches thick. Continuous hinges can be manufactured to a customer's drawing or a Delson design. When tooling is needed, Delson is equipped with a modern tool room to take your hinge from concept to finished part.



## MIL-SPEC HINGE

We offer every variety of mil-spec hinges. Including the MS 20257 series, MS 35821/35831, MS 2001, AA 55589, MS 20253 Pins and AA 55486 pins. We can supply special and specific hole patterns and special lengths. Identification impression are available at an additional cost.



## BUTT HINGES

A butt hinge is a hinge with two rectangular metal plates with screw holes joined by either a pin or rod.

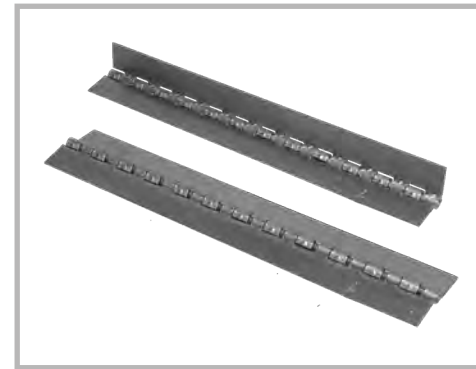
Butt Hinges are most commonly used in multiples and are usually made are often made of brass, stainless steel, or aluminum to prevent corrosion.



## PLASTIC LIVING HINGE

Plastic Living Hinges are a safe, non-corroding, and economical alternative to steel and aluminum continuous hinges. Made from flexible alloyed polymers, these one-piece, molded hinges allow for silent and maintenance free operation in custom sizes.

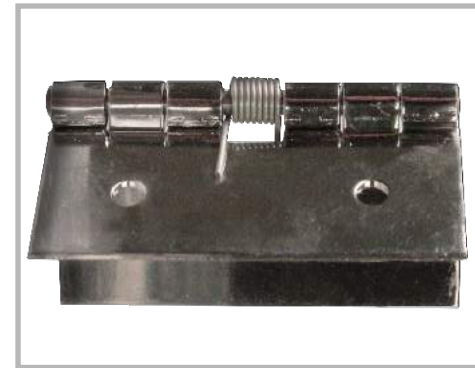
Plastic Living Hinges have numerous benefits including the fact that they do not wear or deteriorate in harsh conditions, and their built in UV resistance provides protection from the brutal effects of the sun. Monroe offers superior plastic living hinges that are available in the standard black or white and also custom colors.



## WELD STOP CONTINUOUS HINGES

Weld Stop Continuous Hinges differ from standard continuous hinges in the fact that they are welded to stop at a specific angle depending on the project specifications. Weld Stop Continuous Hinges allow for fast and accurate alignment as well as reducing costs and preventing friction.

Monroe Hinge & Stamping is prepared to provide you with quality Weld Stop Continuous Hinges that are custom-made to meet you design requirements.



## SPRING LOADED HINGE

Spring Loaded Hinges utilize the internal energy of a spring to go beyond normal hinge applications. In addition to providing a wide range of motion, Spring Loaded Hinges also can be used to hold a door open or push it shut depending on installation.

Monroe Hinge & Stamping has the capabilities to manufacture Spring Loaded Hinges in a wide variety of lengths, metals, and finishes to meet your project needs.



## TAKE APART & SLIP JOINT HINGE

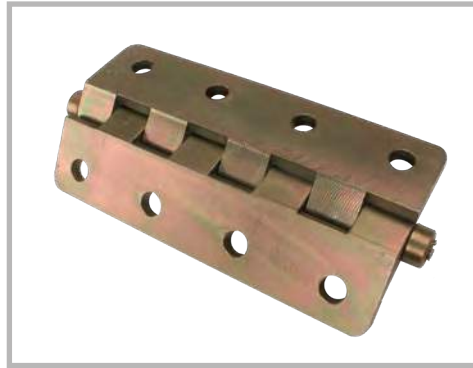
Take Apart Hinges or slip joint hinges, are used for easy and quick door removal and are ideal when doors need to be frequently removed. Take Apart Hinges are commonly used on removable doors, panels and gates.





## FORMED, FABRICATED & LASER CUT HINGES

Monroe Engineering is equipped to form the hinge leaves to almost any desired shape. The usual purpose in bending is to facilitate shaping the hinge to the contour of the door and door-post, or to obtain a certain arc in which the door will swing. We are also able to add-on parts by welding, forming or stamping.



## HEAVY DUTY HINGES

Heavy duty hinges are made of various hinge styles used in heavy duty applications. The material thicknesses for Heavy Duty Hinges range up to 1/4" (one quarter inch) thickness. Monroe Hinge & Stamping Company has the capabilities to manufacture heavy duty hinges in a wide variety of lengths, metals and finishes.

Heavy duty hinges are used in products, industrial settings and many other applications where hinge strength is a crucial factor.



## PLASTIC HINGE

Monroe Hinge offers a wide variety of plastic hinges including plastic living hinges, CFC, CFD and many more.

Monroe can also manufacture plastic hinges to your exact specifications and will be equipped to produce special and fabricated hinges and perform such operations as hole punching, forming, offsetting, notching and etc. Holes can be added depending on quantity requested.



## STRAP HINGES

Monroe's strap hinges come in all styles and sizes, from heavy duty to light duty. They are used in many commercial and residential applications including for gates and doors.

Our strap hinges are all made of steel and are available in zinc plate finish, some strap hinges are available in zinc plate black finish.



## TEE HINGES

Monroe's tee hinges are available in a assortment of sizes and series. Monroe's tee hinges are all zinc plated or zinc plated black and made of steel.

Tee hinges are used in many commercial and residential applications including for gates and doors. Characterized by a wide selection of series and sizes our tee hinges are perfect for most applications.



## DOOR & CABINET HINGES

Monroe's door and cabinet hinges enhance the design of any home, with finishes that range from stainless steel and polished brass to yellow zinc and polished bright chrome.

Characterized by a wide selection of finishes, styles and sizes our door hinges are perfect for most around the house applications. We specialize in high-volume orders for door hinges.

Please see our descriptions for finish types.



### Special & Custom Orders Available



Request Quote

1-888-695-1754



Available custom options to accommodate your requirements

## OUR QUALITY

- ◆ Six Sigma/REDX Capabilities
- ◆ EDI Electronic Data Interchange
- ◆ C of C Certificate of Compliance
- ◆ Certified to meet ISO 9001:2015
- ◆ JIT
- ◆ PPAP/APQP
- ◆ KAN BAN/LEAN



# CUSTOM HINGES



Monroe specializes in not only a multitude of standard hinges, but also in custom hinges made exactly to your project requirements. We are equipped to perform operations such as hole-punching, offsetting, notching, countersinking, and plating in order to meet any specialty orders or intricate design requests that you have.

Monroe Hinge & Stamping Company is proud to continue to serve the defense, industrial, aerospace, and commercial industries, and we hope to do business with you in the future!

## CAPABILITIES

[Click Here](#)

See our Capabilities & our Online Guide on **How to Order Hinges.**

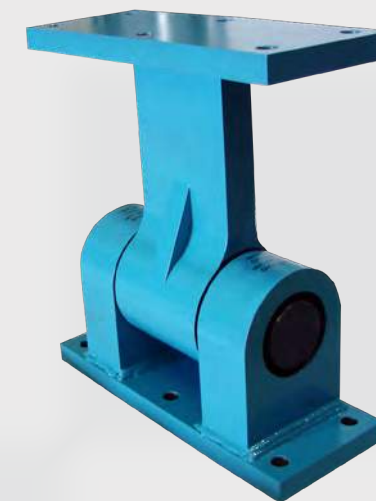
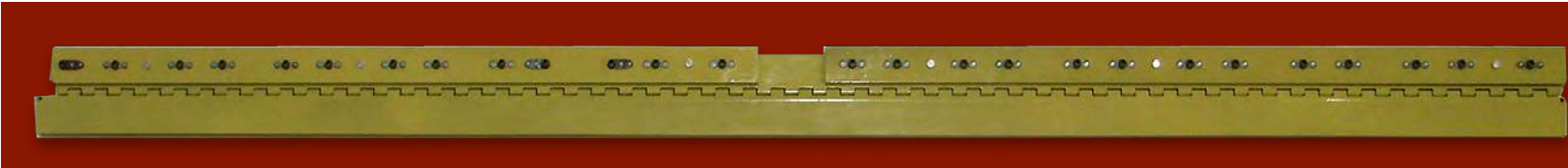
## CUSTOM HINGES

We specialize in the production of custom hinges, mil-spec hinges and pins, piano hinges and much more. We use a wide range of materials in our manufacturing process including: steel, stainless steel, aluminum, and others.

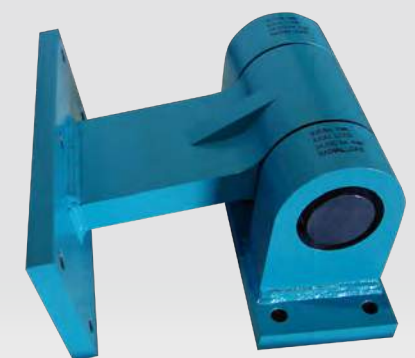
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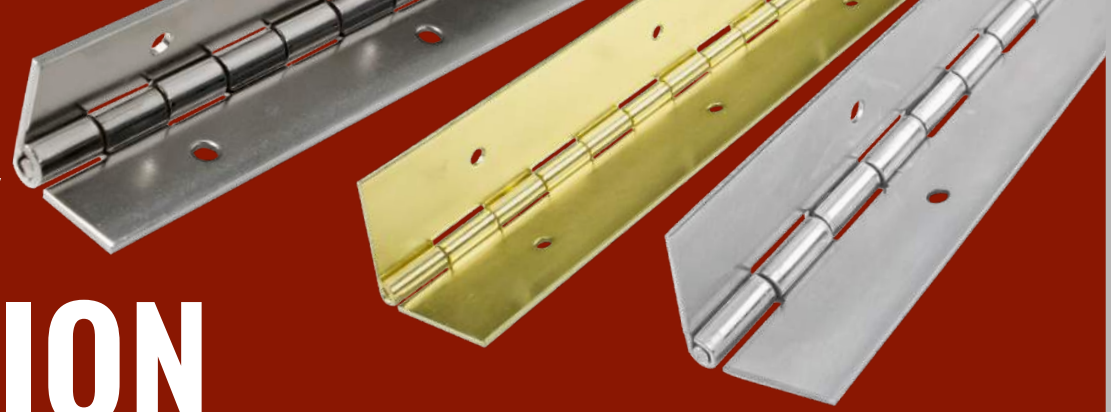
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## CUSTOM HINGES



# HINGE ASSEMBLY FORMATION



# OUR CAPABILITIES



Monroe Hinge is your source for custom and off-the-shelf hinges. We have robust manufacturing capabilities with the ability to fabricate your custom hinges. We can fabricate in a wide variety of materials and accommodate most lengths, width forms, swages, hole patterns and much more.

We are proud to serve customers across North America in the automotive, medical, filtration, heavy equipment, oil & gas, and transportation industry sectors.




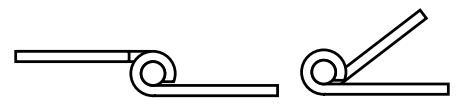
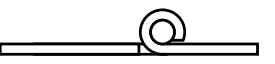
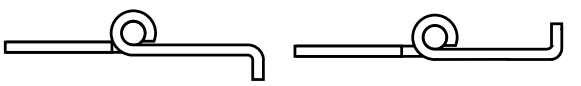
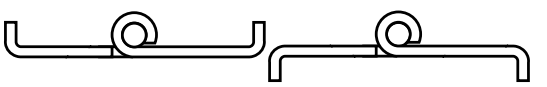
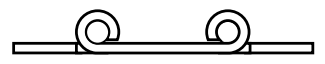
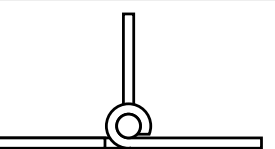

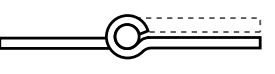

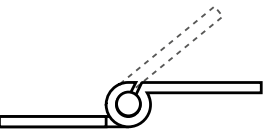
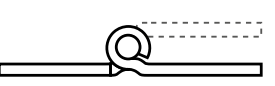
Find out more about our capabilities! 

**CAPABILITIES**  
[Click Here](#)

Hinge Metal Forming	Secondary Operations
<ul style="list-style-type: none"> <li>• CNC Punching</li> <li>• CNC Laser Cutting</li> <li>• CNC Stamping</li> <li>• Press Brake Forming</li> <li>• Punch Press Stamping</li> <li>• Metal Stamping</li> </ul>	<ul style="list-style-type: none"> <li>• Tooling</li> <li>• Staking</li> <li>• Plating</li> <li>• Cleaning</li> <li>• Painting</li> <li>• Anodizing</li> <li>• Die Tapping</li> <li>• Heat Treating</li> <li>• Tapping &amp; Deburring</li> <li>• Value Added Processes</li> </ul>



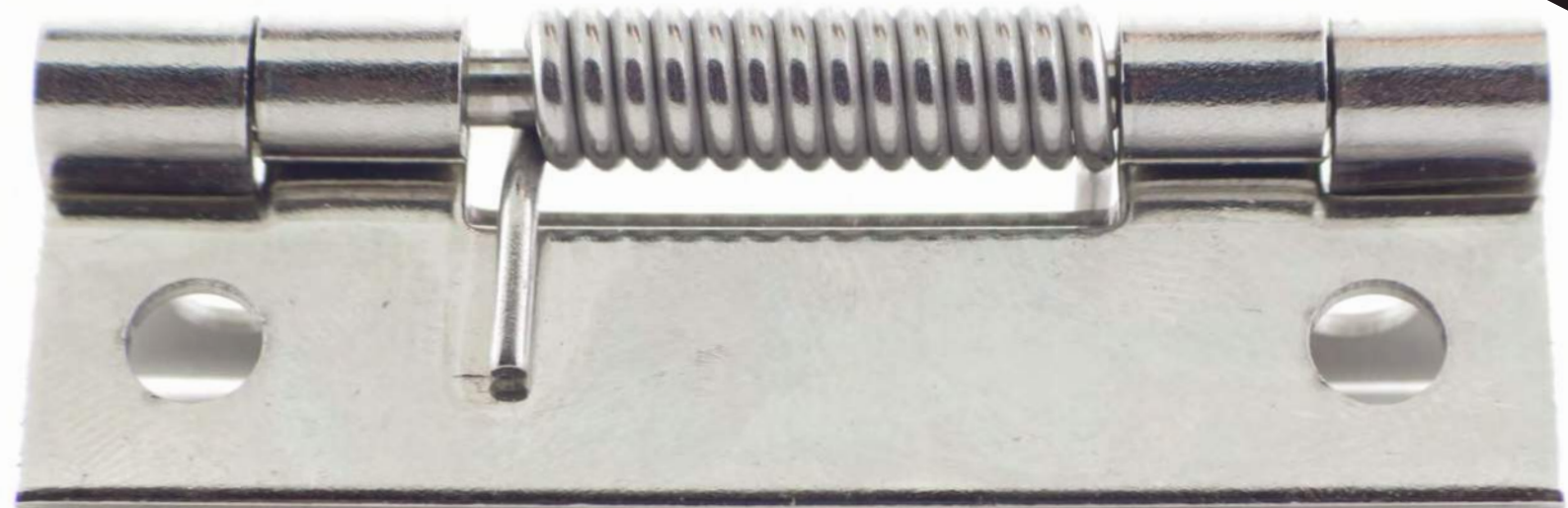
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<b>Plain or Standard Assembly</b> <i>Leaves lay flat in the same plane in an open position</i>	
<b>Reverse Assembly</b> <i>Opposing leaves extend laterally from opposite sides of the pin in the open position. Leaves will not close to parallel position</i>	
<b>Unequal Leaves</b>	
<b>One Leaf Formed 90</b>	
<b>Two Leaves Formed 90</b>	
<b>Multiple Barrel</b>	
<b>Multiple Leaves</b>	
<b>One Leaf Half Swaged</b> <i>One leaf swaged one half of pin diameter</i>	
<b>Both Leaves Half Swaged</b> <i>One half of pin diameter</i>	
<b>One Leaf Full Swaged</b> <i>The diameter of pin</i>	
<b>One Leaf Reverse Swaged</b> <i>The diameter of knuckle or reverse swaged leaves will not close to a parallel position</i>	
<b>Offset</b> <i>Forming of one or both leaves to more clearance between the leaves in closed position</i>	

# INDUSTRIES SERVED

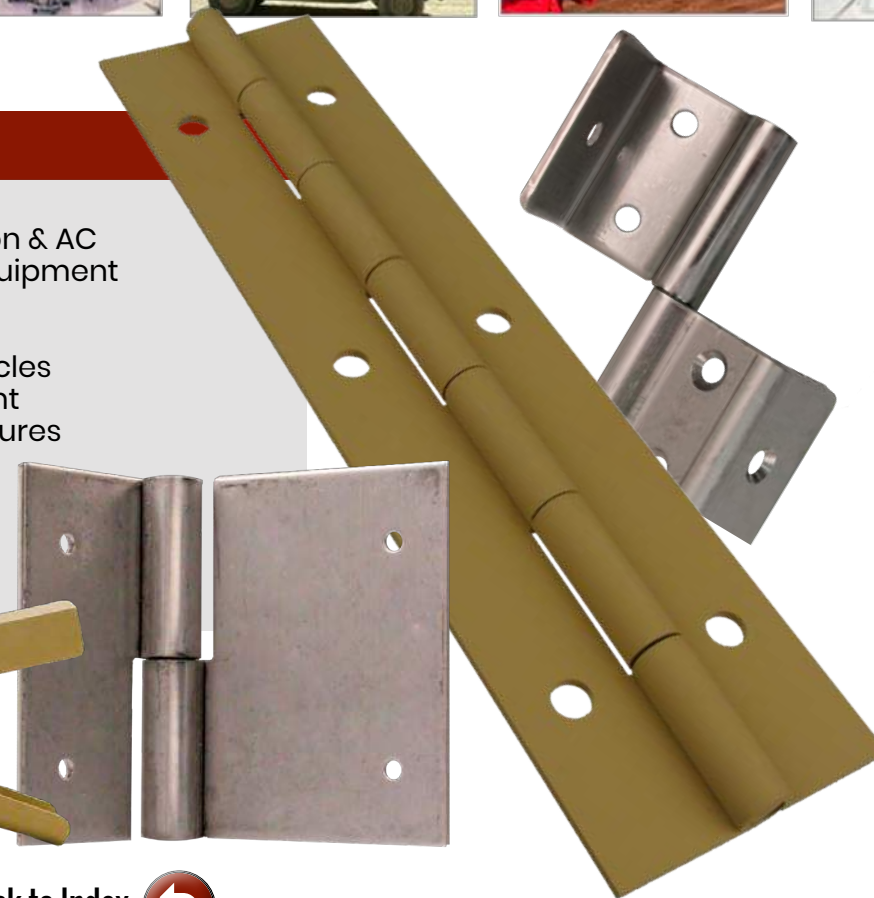
Over the years, Monroe and its subsidiary organizations has completed a multitude of projects for customers in a wide variety of industries. Through this experience we understand the unique attributes and specific requirements of these industries.

Below you can find a selection of industries that we have served and have valuable experience and insight with.

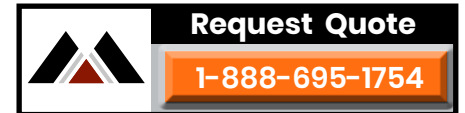


## Industries & Products Continued

- Air Conditioning Equipment
- Audio Distribution Components
- Automation Equipment
- Automotive (tier 2 or 3)
- Bath & Shower
- Cabinets
- Components Automation Equipment
- Computer Equipment
- Controls & Instrumentation
- Electronics & Control Cabinets
- Hardware Distributors
- Heating, Ventilation & AC
- Manufacturing Equipment
- OEM Products
- Power Systems
- Recreational Vehicles
- Security Equipment
- Subsystem Enclosures
- Storm Doors
- Specialty Vehicles
- Toolboxes



## OUR QUALITY



Monroe Hinge & Stamping quality system has been certified to meet ISO 9001:2015 and AS9100D standards to better serve our aerospace customers. We often work with our customers on APQP, PPAP, DFMEA, PFMEA and other customer quality requirements.

Please make quality system inquiries to our Quality Manager, John Birg at [jbirg@askmonroe.com](mailto:jbirg@askmonroe.com)

For product inquiries  
Email: [sales@askmonroe.com](mailto:sales@askmonroe.com)

### CAPABILITIES

[Click Here](#)

### OUR QUALITY

- KAN BAN/LEAN
- JIT
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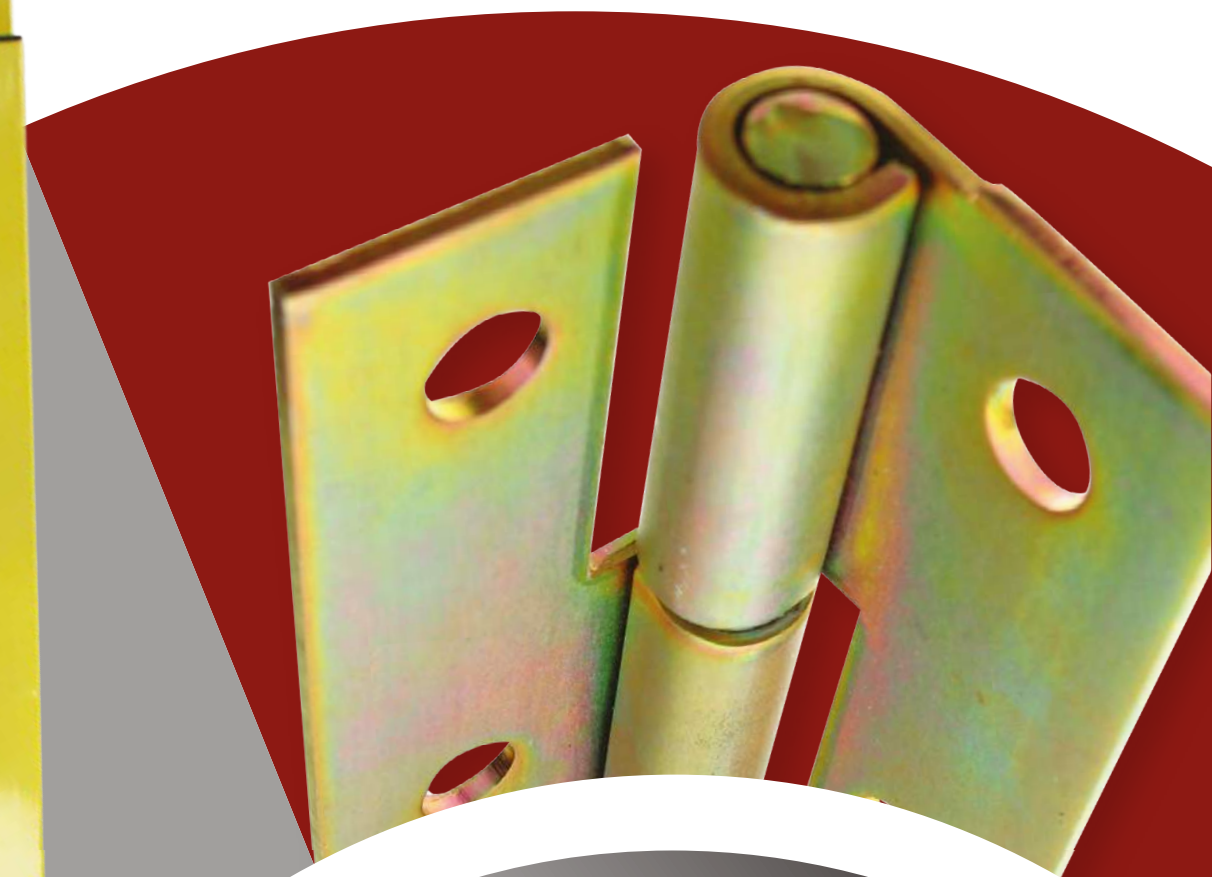
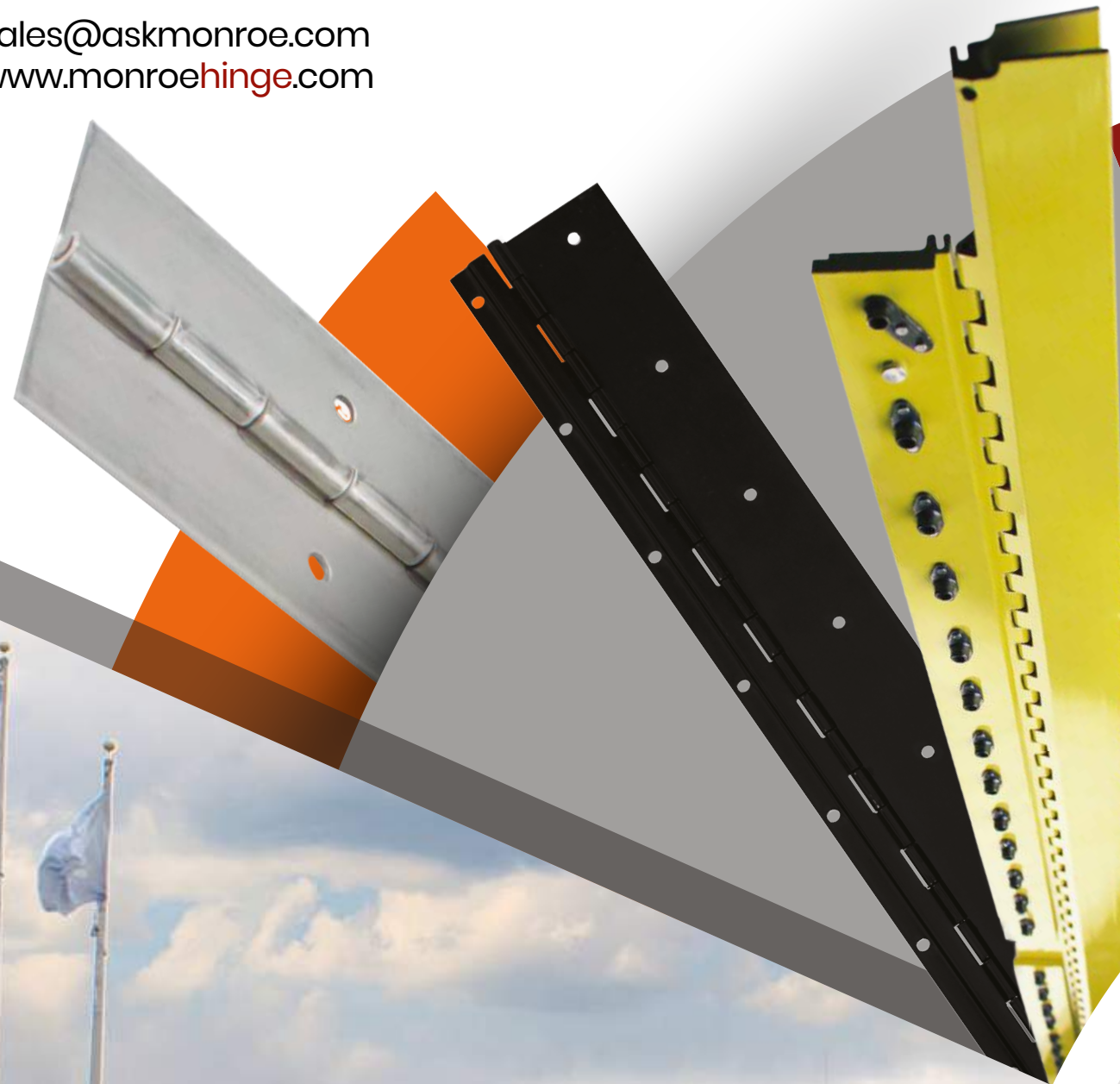




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**MONROE**

HINGE & STAMPING

Monroe Hinge & Stamping's mission is to provide our customers with industry leading response time in production, sales and customer service while maintaining effective and efficient quality systems.