



ARISTOTLE

METAL WORKS

PRESS BRAKE FORMING SERVICES

ACCELERATE PRODUCTION

ENHANCE QUALITY

OUTPACE THE COMPETITION

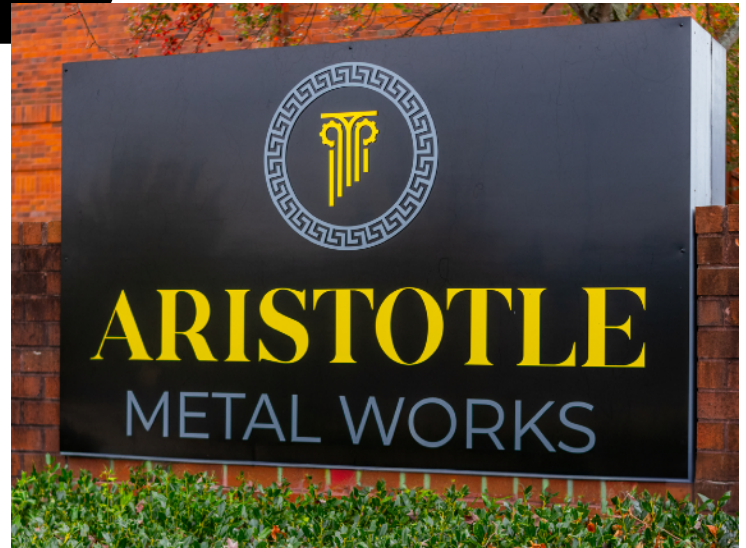
SHAPE YOUR VISION WITH METAL BENDING

Welcome to Aristotle Metal Works

At Aristotle Metal Works, we turn precision into an art form. Our dedication to accuracy and detail is not limited to laser cutting; it extends powerfully into our metal bending services. When your project requires the transformation of metal into intricate forms and angles, trust us to deliver with matchless precision.

Our advanced press brake technology ensures that each bend in your metal meets not just our high standards, but yours too. Whether it is helping you pick the right materials or fine-tuning the bending process, we're committed to making sure your project comes out just as you planned.

Let's get started on making your vision a tangible masterpiece. Give us a call at Aristotle Metal Works, and let's create something incredible together.



Customized Bending Solutions: Our Offerings

- ❖ **Precision Bending:** Executing accurate bends on sheet metal to specific angles and dimensions.
- ❖ **Air Bending:** The sheet is not completely pressed into the die, reducing force used and allowing greater flexibility in bend angle.
- ❖ **Forming Complex Shapes:** Handling intricate and complex bending requirements that may involve multiple bending operations or specific sequences.
- ❖ **Hemming:** Folding an edge over onto itself to create a smooth edge, often used in automotive parts for safety and aesthetics.
- ❖ **Custom Tooling and Dies:** Creating custom tools and dies for specific projects that require unique shapes or precision.
- ❖ **High-Tonnage Bending:** Utilizing press brakes with very high tonnage to bend thick or hard metals that require more force.
- ❖ **Radius Bending:** Forming smooth rounded bends instead of sharp angles, often for decorative or functional purposes in metal products.
- ❖ **Prototyping:** Offering bending services for prototyping to help visualize the design process and to troubleshoot before full-scale production.
- ❖ **Low-Volume Production Runs:** Catering to custom or specialty projects that do not require large quantities but need professional bending services.
- ❖ **Automated Bending:** Using CNC technology to automate the bending process for high precision and efficiency in production runs.

We Have The Right Tool

Discover the MVD iBend Press Brake, engineered for precision, efficiency, and rapid production in metal bending

- 1. Complex and Highly Accurate Bends.** Equipped with four computer-controlled axes, our press brake ensures precise and consistent bends for specific requirements.
- 2. Quick Turnaround Times and Consistent Product Quality.** CNC control unit enhances machine efficiency, enabling automated bending operations for quick delivery and consistent quality.
- 3. Reducing Waste and Increasing Efficiency.** The precise motorized back gauge accurately positions metal sheets to the millimeter, minimizing waste and maximizing efficiency.
- 4. Reduced Downtime and Boosted Productivity.** MVD iBend Press Brake's Punch Tool Holder enables fast tool changes, increasing productivity and reducing downtime



EXTENSIVE INDUSTRY SPECTRUM

Our precision bending technology ensures high-quality finishes, with the flexibility to handle complex designs and a variety of materials. With a strong commitment to customer satisfaction, we tailor our services to meet the unique needs and specifications of each client.

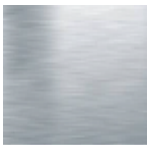
- Medical Devices
- Aerospace & Aviation
- Marine
- Construction
- Electrical & Electronics
- Energy Sector
- Metal Furniture & Fixture
- Industrial Equipment & Tools
- Defense & Military
- Pipe Fitting
- Environmental Remediation
- Security
- Academia & Research
- Motors & Drives
- Robotics
- Oil & Gas
- Automotive



MATERIAL CAPABILITIES

The MVD iBend Press Brake excels at forming a wide range of metals. Here's a breakdown of the most common materials and their typical thickness ranges.

Common Metals



Mild Steel

Grades

- A36
- A572

Dimensional Limitations

- Area: 5-8 feet (~1.5 m x 2.4 m)
- Thickness: up to ¼ inches (25.4 mm) thick



Stainless Steel

Grades

- 303
- 304/L
- 316/L

Dimensional Limitations

- Area: 5-8 feet (~1.5 m x 2.4 m)
- Thickness: up to ¼ inches (25.4 mm) thick



Aluminum

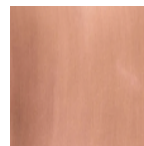
Grades

- 5052
- 6061

Dimensional Limitations

- Area: 5-8 feet (~1.5 m x 2.4 m)
- Thickness: up to ¼ inches (25.4 mm) thick

Special Metals (upon request)



Copper

Properties

- Excellent electrical conductivity
- Thermal conductivity



Brass

Properties

- Excellent machinability
- Good strength
- Corrosion resistance



Titanium

Properties

- High strength-to-density ratio
- Ability to withstand high temperature
- Good Corrosion resistance

LET US EARN YOUR TRUST

With over 25 years of expertise in the metal fabrication industry, we are excited to spotlight our bending services, combining unmatched precision, steadfast dedication, and deep-seated knowledge. Our commitment to precision shines through in every project, as we employ meticulous care, stringent quality control, and a laser-focused approach to meet your specific needs. We guarantee efficiency and precision in delivering your projects, minimizing delays by adhering to deadlines and exact specifications. Trust in us to transform your vision into reality with the precision and attention it merits.



OUR CORE VALUES

Accountability

We hold each other accountable

Excellence

We strive for continual improvement

Service

We deliver the best service possible

Quality

We create top-quality products

Integrity

We act with integrity, seen or unseen

MISSION STATEMENT

To lead our industry by striving for excellence in quality and the customer experience.

We are certified
We are partnered
We are associated



ARISTOTLE METAL WORKS

CONTACT US



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