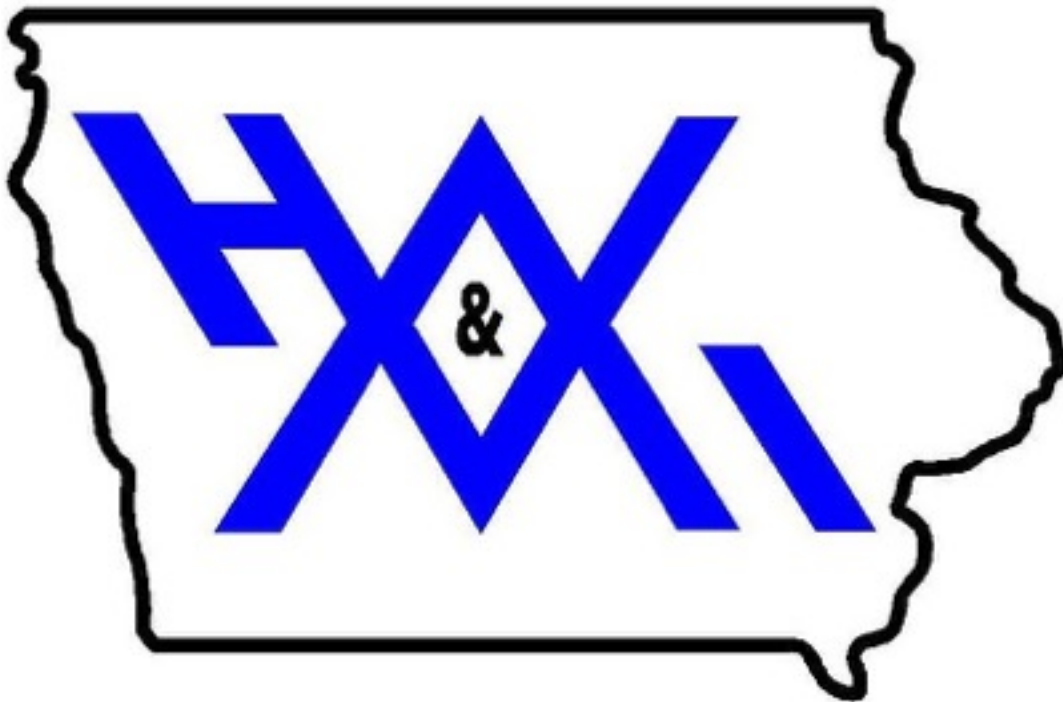


HUFFMAN WELDING & MACHINE, INC.



**6224 AVENUE O
FORT MADISON, IA 52627
PHONE: 319-372-7232
FAX: (319) 372-3469
WWW.HUFFMANWELDING.COM**

MAY 2023 EDITION

SERVICES AT HUFFMAN WELDING AND MACHINE, INC.



Machining / Tool & Die

Full-service shop with new state of the art equipment to handle all your precision needs from huge weldments on our large cnc horizontal boring mill to precision ground tool and die parts.



Fabrication & Welding

Certified AWS Welders in Structural, Pipe, Carbon Steel, Stainless, & Aluminum
Our fabricators are not just welders but they understand how to efficiently and correctly fabricate your projects!



Forming & Sheet Metal

CNC 250 ton x 12' brake with Wila Tooling, 90 ton brake, shears, and more for all your heavy to light precision forming and sheet metal needs



Laser & Metal Cutting

6000 Watt Bistronic Laser
12'x6' plasma & oxyfuel table
Precision CNC miter and autofeed Marvel saw



Paintings and Coatings

In-House Wet Paint, blasting, and Black Oxide
Weekly runs to powdercoat, hot dipped galvanizing and other specialty coaters

Process Equipment & Controls Integration

Since 1971, we have been building entire factory lines from custom conveyors to full production. Contact us to learn about our experience, expert build team, and outstanding project management team.

Electrical, Pneumatic, and Hydraulic Controls

Engineering Services

Software - Autocad, Inventor, SDS/2, Fusion 360, Sigmanest and more
Specialties - Full 3D and 2D machine and part design, reverse engineering with process improvement, strength analysis and FEA analysis,
ERP / File Management to keep track of all your custom part designs and inventory

Manufacturing

We offer a variety of contract options for manufacturing services.

Part production or complete assembly production.

Part stock room, just in time deliveries, quality inspection and more.

Our ERP system helps keep track of your part demands and part scheduling

Structural

Certified Welders, Certified Materials, Certified Coatings, Certified SDS/2 Shop Detailers

We specialize in small structural projects - miscellaneous steel, staircases, mezzanines, etc.

Equipment - Lincoln PythonX Structural Processor, CNC Saws, CNC Pressbrakes,

Ironworkers, Punches, Drills and more.

Equipment Repair & Reverse Engineering

Heavy construction equipment, industrial equipment, OEM replacement parts, and more.

Our expert team has the knowledge to properly repair and fix your broken equipment using repair methods that will last as long or longer than the original equipment!

Installation and Site Support

We can handle the entire installation or help oversee your installation team to make sure your project gets completed and in the end zone!

Our job is not done until you are satisfied!

On The Road Customer Service, Toolroom Supply, and Steel Sales

Our on the road sales force can supply your plant with all their toolrooms needs including hardware, drillbits, steel sales, small engine equipment, power tools, and more.

We have a large on-hand inventory of carbon steel, stainless and aluminum in sheet, plate, rounds, flats, angles, channels, tubing, rebar, and more.

Our massive on-site bolt rooms has grade 5, grade 8, A325, galvanized, stainless, SHCS, & more and we also stock a large variety of hardware at all 3 farm and home locations.

With our Huffman's Farm and Home division we can offer you a huge line card of vendors that we wholesale from www.huffmansfarmandhome.com

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RECENT ADDITIONS AT HUFFMAN'S

2023 Amada Ventis 6KW Fiber Laser - 5'x10' tables - up to 1 1/2" carbon / 1" stainless steel

2023 Mitsubishi Wire EDM MV2400-ST Workpiece Capacity: 41.3" x 32.3" x 16.5"

Davi CNC 4-roll Roller MCA 2020 6' wide x 7/16" capacity - can roll cylinders, half moons, and cones

2022 Doosan CNC mill 48" x-axis, 24" y-axis, 20.1" z-axis with Renishaw probe

2021 Fermat CNC horizontal boring mill with 4th axis - 157.5"x-axis x 98.4"y-axis x 59.1"z-axis x 31.5" spindle travel, 22 ton table capacity, 165.4" of swing on 4th axis

2021 Lincoln Python X Structural Steel Processor with capabilities to cut up to 50 ton/week

2021 SDS/2 Automated Shop Drawing Software – In-house certified SDS/2 detailer

2021 Accurpress 250 TON x 12' 7-axis CNC Press Brake

2021 Ercolina TB60-TC CNC Programmable Pipe and Tube Bender

2021 Marvel Precision Saw 20"x25" capacity, 60 deg miter, +/-0.005 shuttle accuracy

2020 Doosan CNC mill with 4th axis

2020 Doosan CNC lathe with LIVE TOOLING and bar feeder

2018 New Lucas CNC horizontal boring mill 120"x-axis x 98"y-axis x 48"z-axis x 29" spindle travel
332,832 kWh solar field

All new state of the art Lincoln welders with pulse technology

Now with over 65,000 sq feet and up to 10 ton overhead crane capacity

Continued growth since 1971



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CNC MATERIAL CUTTING

Laser - Plasma - Oxyfuel - Saw - Structural Processor

CNC Laser and Plasma

2023 Amada Ventis 6KW Fiber Laser - 5 x 10 tables - up to 1 1/2" carbon / 1" stainless

- 6 x 12 CNC plasma table
- 6 x 12 CNC oxyfuel table
- Subcontracting partners for waterjet

Sawing and Shearing

- 2021 Marvel Precision Saw 20"x25" capacity, 60 deg miter, +/-0.005 shuttle accuracy
- Hot saws, cold saws, special nibblers and material saws, and more
- Sheet metal shear up to 12GA stainless

Structural Steel Processing

- Up to 36" tall material x 60' long
- Beams, Channels, Angles, Square and Rectangular Tubing, Flat Bar
- Processed complete on all 6 sides for quick accurate processing

HOFFMAN WELDING & MACHINE, INC.

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PRECISION MACHINING

Milling - Turning - Wire EDM - Precision Grinding

Manufacturing = CNC machining up to 5000 parts

Large capabilities = Turning up to 165.4" diameter - CNC milling up to 157.5"x 98.4"x 60" with full 4th axis capabilities and probing capabilities

Precision capabilities = Precision grinding and machining to 0.0005

State of the art technology = CNC milling & turning, Wire EDM, 3D modeling and CAM programming, and 3D printing

Investing in new equipment yearly! See our equipment list for our full capabilities!

Engineering and value creation = Solutions for manufacturability & process improvement
Material experience = carbon steels, tool steels, castings, stainless and Nitronic 60, aluminum, specialty alloys, plastics (UHMW, Teflon, etc.)

Reverse engineering available = OEM replacement parts shipped nationwide

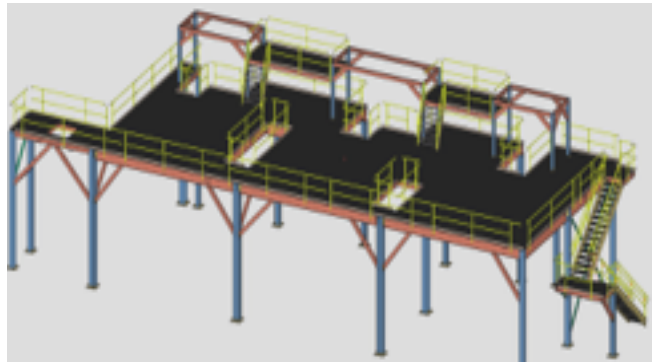
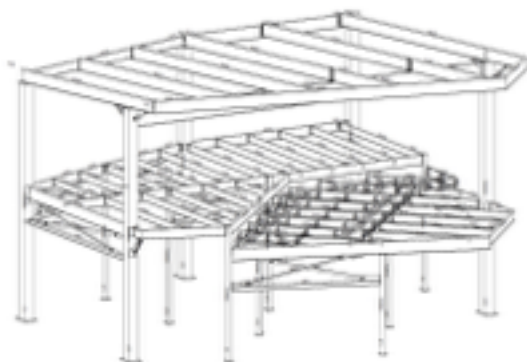
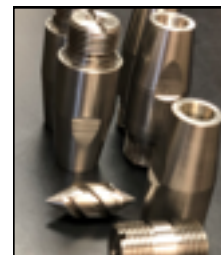
Part fit and tolerance knowledge to help ensure proper clearance and fit of parts

Repair machining = Journal & housing repair, bore & bush, metalizing

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FABRICATION - STRUCTURAL STEEL

Structural Steel & Misc Metals – Metal framed buildings, Staircases, Mezzanines, Platforms, Handrail (made with CNC programmable tube and pipe bender), Embeds, Rebar, Gates, Anchor Bolts

2021 Lincoln PythonX Structural Processor

STRUCTURAL STEEL FABRICATION REINVENTED

- Process all 6 sides of up to 36" tall x 60' long structural members
- Copes, Miters, Holes, Slots, Chamfers, and more

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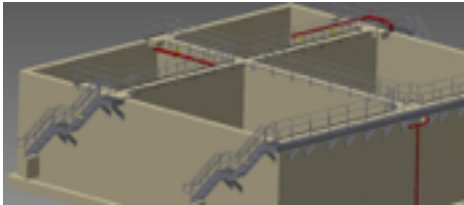
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Other equipment includes: Forming up to 250 ton x 12', Ironworkers, Punches, Drills, stud welders, CNC Saws and availability of our full machine shop

Experience with various structural requirements:

- Shop drawings by certified SDS 3D detailer
- ASTM and customer specs on materials, fasteners, galvanizing
- Certified AWS welders, inspection and tagging of all members
- Ercolina TB60-TC CNC Programmable Pipe and Tube Bender for handrail and more



FABRICATION – CUSTOM

TRAINED & CERTIFIED AWS WELDERS

We train, we certify, we manage, we inspect

MULTIPLE PROCESSES AND MATERIAL EXPERIENCE

Aluminum - Stainless - Carbon - Specialty Alloys

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GTAW / GMAW / SMAW / Spot and stud welding equipment
Bore welder & boring machine / Onsite capabilities for MIG, Stick and TIG

LARGE FACILITIES

10 ton cranes, jib cranes, & efficient and well thought out work areas

TECHNOLOGY

Utilizing the latest technology in Lincoln inverter and pulse welders
State of the art equipment for material production - 6 axis structural processor, Davi CNC 4-roll roller, 7-axis 250 ton pressbrake, CNC tube bending and rolling, drills, ironworkers, full service machine shop and more.

INSPECTIONS

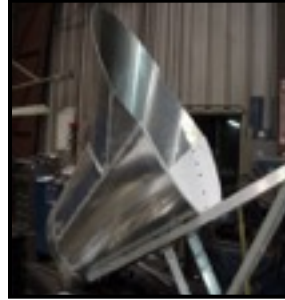
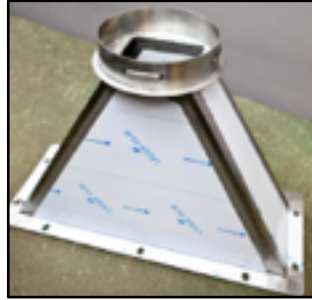
In-house Visual, Dye-Penetrant, and Magnetic Particle Inspection
3rd party inspections available as needed



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FORMING AND SHEET METAL FABRICATION

MATERIAL CUTTING - 2023 Amada 6000 fiber watt laser - can cut 1 1/2" carbon steel / 1" stainless, CNC Marvel Bandsaw, 6'x12' CNC plasma and oxyfuel cutting

FORMING - Accurpress 250 TON x 12' 7-axis CNC Press Brake

ROLLING - Davi CNC 4-roll Roller MCA 2020 6' wide x 7/16" capacity - can roll cylinders, half moons, and cones

TUBE BENDING - Ercolina TB60-TC CNC Programmable Pipe and Tube Bender

TUBE ROLLING - Cole-Tuve PK-35 Tube/Round/Angle Roller

Spot Welder / Rivnut and other sheet metal fasteners assembly

Our engineers can provide 3D layouts, modeling for ductwork projects, transitions layout and design, and our experienced team can ensure project success!

Production Forming / Custom Ductwork / Transitions / Hoppers / Chutes / Tanks



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PAINTING, COATINGS, HEAT TREAT AND SURFACE TREATMENTS

Stainless Finishes:

HWMI is an expert in polished stainless with 1000's of projects completed in various stainless finishes.

Passivation - In-house passivation

Pickling – in-house pickling

Polishing - Polishing equipment with specialized finishes

Electropolishing / plating and more

Food grade finishes --- over 40 years building food grade equipment with a thorough understanding of the variety of weld finishes / CIP (clean-in-place) designs and much more

Experienced in standard Ra roughness and other finish callouts - 2B Finish / 4b brushed / 5b satin / 7b reflective / 7b mirror / 9b bead blast / 10b – electropolished

We run the best Walter Surface Technologies equipment ensuring consistent finishes!

In-House Services:

Blasting - variety of media available (experience with SSPC standards and specifications)

Wet Paint (full filtered paint booth) – experience in a variety of specifications and standards and various quality procedures. We have worked with epoxies, polyurethanes, alkyd's and more. We have quality procedures and can meet mil thickness requirements and more. We have painted many specialty projects including items such as turbines, piping, equipment and more. Let us look at your painting needs!

Black oxide ebonized coating in-house

Passivation - Variety of stainless finishes and protective coatings with passivation of stainless welds and small jobs in-house

Weld-Up / Spray Metalizing for repair work

Deburring – hand and vibratory deburring machine

Polishing - HWMI has provided various polished finishes on stainless and aluminum with a variety of specialized polishing equipment in-house.

Partnerships:

Powder Coating --- we pickup/deliver from our powder coat supplier weekly on a standard route truck.

Yellow Zinc and Other Coatings

Hot Dipped Galvanizing with expediting next day turnarounds available ASTM A123 (or any ASTM specification)

Heat treating and Stress Relieving- in-house and through a partner with quality documentation and testing reports available if requested

Plasma Coatings – all types of plasma and spray metalizing coatings

Hard Chrome – Hard chrome buildup up to .017" in buildup for long lasting wear components

Heat Treatment - Induction / carburizing / case hardening / annealing (normalization) / nitride coatings / cryogenic treatment / and more

Materials:

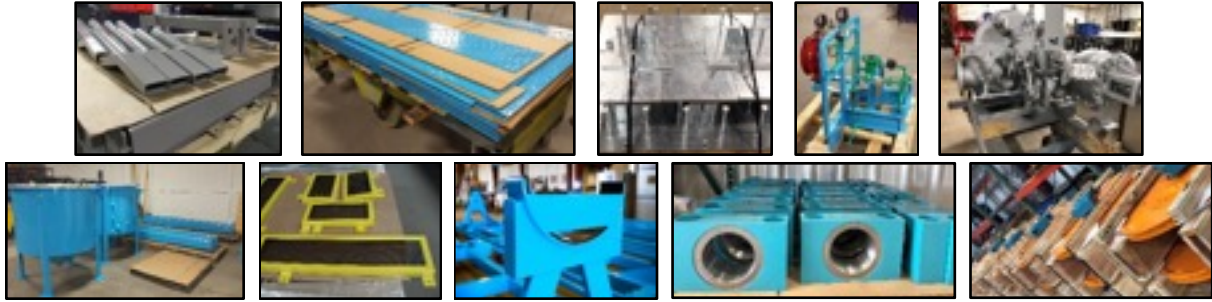
We can partner with you in the initial design phase of your project and consult our many highly experienced designers and engineers along with our expert heat treat partners to help determine the best material for the hardness or ductility you are trying to achieve. We are experienced with almost all materials --- 4140 / 4140 PH / 4340HT / Stressproof 1144 / A2 / D2 / Nitronic / Safurex / 316 / 304 / Aluminum 3003 and 6061 / and many more!

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QUALITY CONTROL AND INSPECTION

ISO 9001:2008 COMPLIANT

Full ISO 9001:2008 compliance manual and implementation

QUALITY DESIGN AND REVIEW

3D design with review for fit, function and manufacturability

PE approvals for designs including Finite Element Analysis

THE RIGHT TEAM AND PROCEDURES

The right team with experience inspecting and ensuring compliance with a variety of tolerances and design requirements

Global Shop enterprise resource planning (ERP) software and project management and scheduling, 3D design and CAM Programming, Geometric Modeling for Structural Steel SDS/2, and more

ISIR, PPAP, PPVP, Certificate of Conformance, and CPK reporting capable
SAM approved, CMMC Cyber Security

THE RIGHT EQUIPMENT AND TOOLS

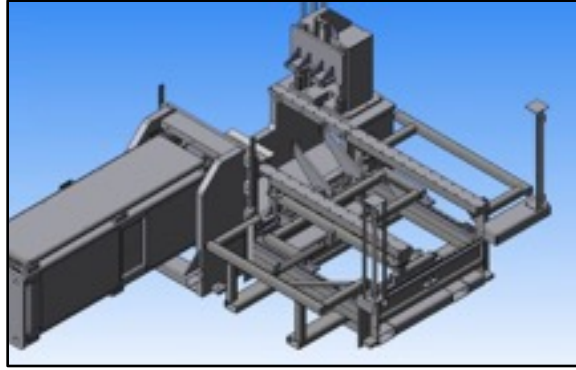
- Renshaw RMP60 probe inspection
- Renishaw OMP60 probe inspection
- Multiple granite inspection tables
- Full range of precision calibrated micrometers and calipers
- Specialty micrometers for threads, internal measurements and more
- Precision calibrated height gages
- Hardness testers, paint mil gages
- Subcontract partners for laser and CMM detailed 3rd party inspections
- Fabrication In-house Visual, Dye-Penetrant, and Magnetic Particle Inspection
- Providing 100% customer satisfaction and per spec parts since 1971



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WE WORK HARD TO CREATE VALUE FOR OUR CUSTOMERS BY UNDERSTANDING YOUR PROCESSES AND DEVELOPING INNOVATIVE SOLUTIONS THROUGH DESIGN EXPERIENCE, DESIGN TECHNOLOGY, IN-HOUSE PROCESSES, AND UNDERSTANDING MANUFACTURABILITY

ENGINEERING DESIGN AND PROJECT MANAGEMENT

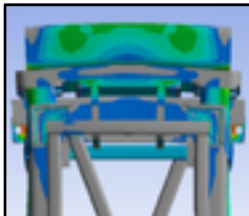
MECHANICAL AND PROCESS IMPROVEMENT DESIGN

AutoCad 2D & 3D inventor / SDS structural shop drawings with PE approvals and finite element analysis / Global Shop ERP and project management and scheduling

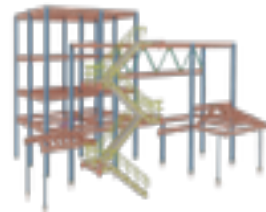
A LARGE TEAM OF DESIGN AND PROJECT MANAGEMENT EXPERTS WITH OVER 300 YEARS OF COMBINED EXPERIENCE

We think outside the box and utilize technology and experience to solve your problems.

OUR PROCESS



- Understand how parts or components work and the end goals for the parts
- Define and understand quality expectations
- Think outside the box and be innovative
 - Provide suggestions on improved design for function or reducing cost
- Keep you informed in all phases of the design and manufacturing process
- Quality Control – part inspection, final testing
 - We get the ball in the endzone and ensure your complete satisfaction.



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PROCESS EQUIPMENT ASSEMBLY **AND** **PROJECT MANAGEMENT**

**WE HAVE MANAGED AND MANUFACTURED FULL FACTORY LINES WITH
EXPEDITED LEADTIMES AND EXCEPTIONAL VALUE**

***If you don't think it can be done. Think Again. Then Call us. That's
what we do***

Experienced Mechanical and Controls Team Members

We Manage Projects From Start to Finish:

- Engineering – New design or completion of any drawings as required / understanding the needs of each project
- Procurement of all raw materials and components (Developing the best vendors since 1971)
- Fabricating all frames and parts / Machining all components
- Coatings – In-house wet paint or black oxide, and outside processes such as yellow zinc, anodizing & hard chrome
- Heat treatments – stress relieving, heat treatment (case hardening, flame and induction hardening, carburizing, etc.)
- Complete mechanical assembly
- All pneumatic and hydraulic systems and plumbing
- Wiring of main controls and components
- In-house hydraulic fittings and hose manufacturing
- PLC programming – subcontracted or we will work with your team to complete programming here for test out
- Runout, Debugging and testing before shipment
- Final skidding, crating, and shipping
- Installation support or full Installation by HWMI

CUSTOM MATERIAL HANDLING AND PROCESSING EQUIPMENT FOR HEAVY INDUSTRIAL



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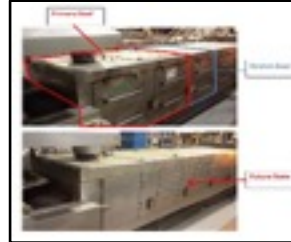
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PROCESS EQUIPMENT REBUILDS

We have a expert team to lead your equipment rebuild project. When we are done it will look and run like new! Whether it's a new build or a refurb, contact us, and see why companies have trusted us to build their equipment since 1971!

We can reverse engineer and modernize or beef up your equipment to improve areas of weakness and give you what you really want! We have made process improvements on customer process ovens, conveyors, choppers, extruders, shears, and much more.



JOURNALS, HOUSINGS, & PART REPAIR

Multiple repair processes in-house for quick turn-arounds!

In-house Spray Metalizing and weld buildup of worn components

In-house Portable Bore Welder - Weld & Bore from 1.9" up to 10" Diameter x 36" outside faces

Partners in other coatings such as hard chrome buildup up to .017"

COATINGS AVAILABLE TO MAKE YOUR REBUILT SHAFTS, JOURNALS, HOUSINGS, AND PARTS LAST LONGER



CONSTRUCTION EQUIPMENT REPAIR

Wrecked equipment rebuilds – boom arms, buckets, sheep foots, scraper repairs, asphalt reclaimer and equipment repairs, pile driver equipment repairs, misc damaged or wrecked equipment, and much more.



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ELECTRICAL, PNEUMATIC, AND HYDRAULIC CONTROLS ASSEMBLY

In-house licensed electrician and mechanical assembly experts

Every large production line and machine we manufacture has controls. We can work with you to do initial electrical runs back to control panels or armorblocks, do complete panels on simple systems or partner with a control panel shop or your in-house team on complex panel builds and PLC programming. We have experience in pneumatic systems and cabinets as well as complete hydraulic design/builds.

In-house hydraulic fittings and hose making

Runouts and machine acceptance testing can be completed in-house with use of our motor starters, VFD controllers, pumps and other various test out equipment.



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EQUIPMENT INSTALLATION **&** **ON-SITE WORK**

Our road crew travels weekly to work on bridges, install projects, and help with turn-arounds.

Our craftsmen know how to handle precision installations and work safely. The team will work to effectively communicate, think outside the box, and develop solutions to keep costs down while ensuring quality.

Onsite welding and repair



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WHY US?

Convenience - From concept to completion - one-stop turnkey shop

Solutions - We do what others can't and create innovative solutions to meet schedules, budgets
and project goals

Quality - Exceeding your expectation is always a priority at Huffmans

Safety - Strict safety program and superior record with regular OSHA consultation visits

Confidentiality - We hold high confidentiality clearances with some of the largest companies

and work hard to ensure your proprietary information remains yours!

Large Capacity - Large manufacturing spaces, In-house equipment capacity, and project management experience for big projects

Dedication - Focused project teams - on time, on budget. PERIOD

Satisfaction - Continuous improvement to make sure you are always happy

Community, Customer, Family, and Employee Focused

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FULL SERVICE SHOP

American craftsmanship, producing guaranteed quality.

From prototypes to full production, HWM has the experience and capacity to provide excellent leadtimes and pricing.



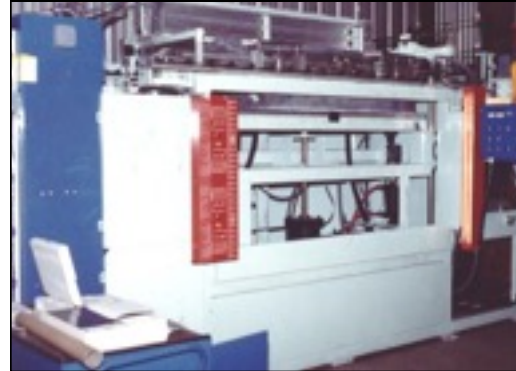
RELIABLE AND EXPERIENCED

10 Project Managers with over 300 years experience. Over 110 employees total each providing excellent value and expertise.



THANK YOU

Our dedicated team promises to provide value to you in all we do. We will provide you with what you need, when you need it, and at the most competitive price. We Thank You for the Opportunity!



REFERENCES / CONFIDENTIALITY

We have a long list of references we can supply at your request. However, many of our customers ask for confidentiality and we have the strictest policies and agreements in place. Your confidential projects are secure at HWM. We will always seek your approval before using pictures or prior to working with subcontractors, etc. We hold the highest confidentiality rating with some of the largest industries in America and the government allowing us to build some of the most proprietary equipment in our secure facility.

Huffman's has grown since 1971 by word of mouth due to the quality of work and level of service we provide. Our customers continue to come back to us time and time again.

Let us show you why Huffman's is a trusted source for all your projects.

Our key customers include those in the rubber, ammunition, steel production, foundries, chemical production, fertilizer production, commercial construction, agricultural equipment manufacturers, food grade equipment, automotive manufacturers, plastic and polyurethane injection and rotational molding, power generation, locomotive bridges, and the United States Government.

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GOVERNMENT SAM AND CYBERSECURITY APPROVED

Small Business / Hubzone Business

HUFFMAN WELDING & MACHINE, INC.

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Forming up to 250 tons x 12'



Full Paint Booth



Large Capacity Turning and Milling



Sheet Metal Shop



CNC Technology --- HWM is efficiently manufacturing for tomorrow

OUR EQUIPMENT AND FACILITIES



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Boring up to 120" x 98" x 29" with Cat50 Spindle

Full Service Sales, Supply, and Trucking Services



Large Inventory of Fasteners and Parts



Large Saw Cutting and Material Handling

Fully automated 6 axis structural processor

Continuously Upgrading and
Improving Our Processes and
Systems



Large Steel Supply Warehouses



Full Service Sales, Supply, and Trucking Services



Stainless Passivating In-House Process
Equipment and Specialty Polishers



Continuously Upgrading and
Improving Our Processes and
Systems



3D Printing

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Team Capabilities

- Founded in 1971 with over 110 employees companywide and 55 at Huffman Welding & Machine, Inc. division with many craftsmen having over 60 years and 100,000+ hours of experience in machining, fabrication, machine building, equipment repair, specialty repair, quality inspection, and material cutting and supply.

Fabrication and Welding

- Lincoln Structural Steel 6 axis processor as noted below under "material cutting"
- MIG, TIG, Stick, Spot - Carbon, Stainless, Aluminum, Specialty Alloys
- On-Site MIG, TIG, and Stick for Stainless and Carbon
- Onsite MIG for Aluminum
- 15+ Welding Power Sources. - We run new Lincoln electric welders with pulse-on-pulse and power mode technology and inverter technology. 500+ amp units and more
- Automatic weld positioners and rollers and other fixturing
- Portable pipe and plate chamfer milling machine
- Bore welder and boring machine 1.9" up to 10" bores
- Nelson stud welder up to 1/2" dia
- In-house Visual, Dye-Penetrant, and Magnetic Particle Inspection

Plate and Tube - Forming / Rolling / Bending

FORMING - 2020 Accurpress - 7-axis CNC, 250 TON x 12', 12" stroke
--- Utilizing the world's most accurate pressbrake and tooling technology
--- Precision WILA new standard tooling including goosenecks and roll-a-vee
--- Box Brake for light GA box forming
ROLLING - Davi CNC 4-roll Roller MCA 2020 6' wide x 7/16" capacity - can roll cylinders, half moons, and cones
TUBE BENDING - Ercolina TB60-TC CNC Programmable Pipe and Tube Bender
TUBE ROLLING - Cole-Tuve PK-35 Tube/Round/Angle Roller
Fastening - Spot Welder / Rivnut and other sheet metal fasteners assembly

Material Cutting - CNC Laser, Plasma, Oxyfuel, Structural Processor

- Lincoln PythonX Structural processor - 6 sided processing 36" tall x 60' long for beams, channels, angles, square and rectangular tubing for all copes, miters, holes, slots, chamfers, etc.
- Amada 6000W Fiber Laser with 5x10 table - up to 1 1/2" carbon and 1" stainless thickness capacity
- CNC Plasma and Oxyfuel Table with 6x12 table up to 12" thick capacity
- Subcontracting partners for waterjet
- Multiple handheld high-powered plasma and acetylene torches and air arc machines
- Pexto Shear - 10' x 10 ga - 1/4" x 3'

Saw Cutting

- Marvel Precision Vertical with Miter Cut Bandsaw - VT5063SW fully automatic 20x25" capacity, 20" rounds, At 45 deg - 20x17 or 17 on rounds, At 60deg 20x11.25" or 11.25 rounds. 1 1/2" blade Flood and mist coolant Position accuracy of +/-0.005 Stock cut lengths for machining of no more than .040" over machined lengths on large parts
- Automatic-band saws, hot saws, cold saws, special nibblers and material saws, and more.

Painting, Sandblasting and Special Coatings

- Large exhausted wet paint booth
- Various size sandblasters (large capacity for big vehicles/equipment)
- Cleanroom for clean part drying
- In-house spray metalizing
- In-house black oxide coating system
- Subcontracting partners for powder coating, galvanizing, heat treat, plasma coatings, and hard chrome buildup up to .017" and more

In-House Shaft and Journal Repair (Welding & Spray Metalizing)

- Weldup of any shaft end or any diameter with automated weld positioners
- Spray metalizing with buildup capabilities between 3/16"-1/4"
- Bore Welder 1.9" up to 10" bores up to 10" deep roughly 36" long outside to outside on faces
- H-frame presses up to 150 ton x 4' x 8 1/2' for removal/installation of bushings, bearings, gears and more

Material Handling

- Cranes spanning 275' long with 18' hook height / 30 TON capacity

Wire EDM

- 2023 Mitsubishi Wire EDM MV2400-ST Workpiece Capacity: 41.3" x 32.3" x 16.5"

Milling - CNC large horizontal capacity up to 157.5" x 98.4" x 31.5" with 22 ton table capacity and 3 mills with 4th axis including largest new CNC boring mill

- CNC Fermat WFT 13 New 2021 horizontal boring mill with full 4th axis rotary table. 157.5" on x-axis, 98.4" y-axis, 59.1" Z-axis, 31.5 w-axis, Swing of 165.4" diameter on 4th axis with max cutting diameter of 115.2", 22 ton table with size 70.8"x86.6", 5.1" cat 50 spindle with 31.5" of travel. 40 tool changer and Fanuc 31iB controller and Renishaw RMP60 probe, and 90 degree rotatable head
- CNC Lucas purchased new 2018 40T1210 horizontal boring mill with 20 ton table capacity and range of 120" x-axis x 98" y-axis, 5.1" Cat 50 spindle with 29" of travel. 32 tool changer and Fanuc Oi-MF controller. 90 degree rotatable head
- Doosan (2) - 1 each 2022 / 1 each 2020 CNC vertical mill - 41.3" x-axis x 22.4" y-axis, 20.1" z-axis and 4th axis milling with Renishaw OMP60 probe
- 2ea purchased 2017 Acer CNC toolroom mills including 4th axis CNC capabilities
- Multiple traditional horizontal and vertical mills up to - 4" spindle, 84" cross travel, 74" on y-axis, 60" vertical with a 4" x 36" spindle

Turning - CNC with live tooling for milling and bar feeders / Large Capacity Lathes up to 60"

- Doosan purchased new 2020 CNC lathe with live milling tooling - GT3100M with 28.3" over bed, 23.2" over saddle and up to 49" between centers, turret with hydraulic chuck and bar feeder up to 4" dia and live tooling for milling, 2800RPM Spindle, 47HP
- Milltronics CNC lathe with 18" chuck x 24" of travel x 48" between centers
- Monarch lathe 60" dia. x 108" length (50" over carriage)
- LeBlond lathe - 48" x 216" length
- Using our heavy duty steady rests and rollers we can machined shafts over 35 feet long
- 8+ other lathes for specialty jobs

Precision Grinding

- Blanchard Grinding up to 36"
- Cylindrical Grinding 14" x 4'
- Surface Grinding 10" x 2'

HWMI Heat Treat

- Oven Dimensions: Inside 8" Tall x 11 1/4" Wide x 16" Long
- Subcontracting partners for larger items that need heat treat or stress relieving, etc.

Quality and Inspection - ISO 9001:2008 Compliant

- Renishaw OMP60 probe and Renishaw RMP60 probe
- Climate controlled inspection room
- Multiple granite inspection tables
- Full range of precision calibrated micrometers and calipers
- Specialty micrometers for threads, internal measurements
- Precision height gage
- Hardness testers, paint Mil gage
- Subcontract partners for laser and CMM detailed 3rd party inspections
- Fabrication - In-house Visual, Dye-Penetrant, and Magnetic Particle Inspection
- Providing 100% customer satisfaction and quality approved parts since 1971

Floor Space

- Over 65,000 Sq Feet of building. assembly/fabrication capabilities for assemblies over 275' long. Contact us for all your large fabrications and projects.

Trucking and Delivery

- Full fleet of delivery trucks including box trucks and semi flatbeds

Material Supply and Inventory

- We have much of the material needed for jobs on-hand and available the day of the job.
- Industrial supply inventory at HWMI/HF&H is one of the area's largest for

HUFFMAN WELDING & MACHINE, INC.

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BOB HUFFMAN
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HANK HUFFMAN
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Senior Project Manager



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