





Custom Metal Stampings and Assemblies





The Harvey Vogel Advantage

- The expert in the metal stamping industry
- AS9100, ISO 9001 and ISO 14001 certified
- Specialize in high quality, more complex, tight tolerance and appearance oriented metal parts
- Strong quality assurance program and systems
- Complete in-house design, engineering and tool room support and capabilities
- Electronic print transfer and advanced CAD/CAM design capabilities
- World class process design, production work cells and assembly lines
- Continual process improvement and cost reduction programs
- Just in time, kanban, 3rd party warehouse and vendor managed inventory programs
- Value added secondary and assembly services
- Powder coating fully automated paint line
- Your Complete Metal Service Manufacturer

With over 75 years of excellence in manufacturing, our team of 250 + dedicated professionals are ready to provide the best solutions to all of your metal stamping and fabrication needs. With state-of-the-art facilities of 132,000 and 71,000 square feet, we house over 200 metal stamping and fabrication machines offering the ultimate in quality, speed, and reliability. Also, with blanking pressure up to 400 tons, HV meets the closest, most exacting tolerances in stampings from one millimeter to 72" x 36", using any stampable material.

Our complete metal service manufacturer capabilities include metal stamping, fabrication, machining, water jet cutting, powder coating, mechanical assembly and more. Whatever metal forming need you have, "Harvey Vogel can do more for you!"









Prototype Through Volume Production

HV works with you to decide the type of tooling and production method that best meets your volume requirements and cost/benefit needs.

Lesser Volume / Rapid Prototyping

- Samples or prototypes
- Typically less than 5,000 parts annually
- Manufacture with lasers, turrets, water jet machines, and press brakes
- No tooling costs, less value in piece price



Short to Medium Run Volume

- Typically 5,000 to 40,000 parts annually
- Manufacture with stage tools built and maintained in house for life of part
- Usually one tool for each operation (e.g., blank, form, pierce, form)
- Shared die sets to reduce tool cost
- Less expensive tools, lower piece price

Examples of short-run, semi-permanent blank, pierce and form tooling.

Longer Run Volume

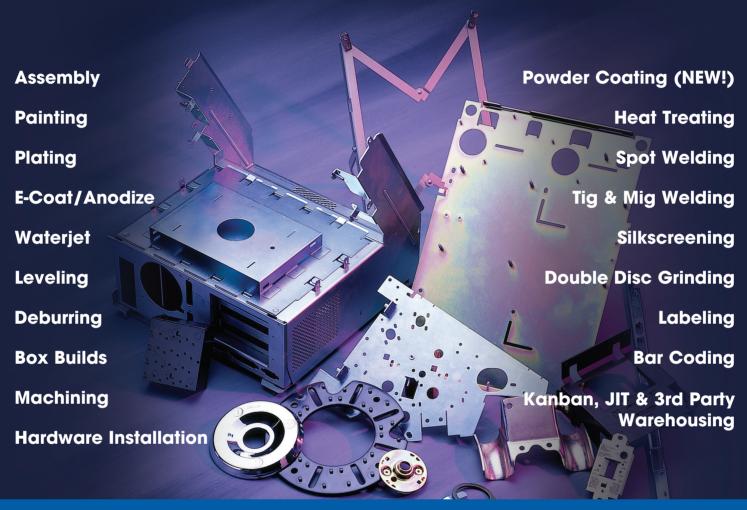
We can meet all of your short to medium run needs with

low cost short-run tooling.

- Typically 40,000 parts or more annually
- Manufacture with progressive tools built and maintained in house
- One tool for all operations
- Final part produced with each stroke of the press
- More expensive tool, lower piece price



Harvey Vogel adds value to everything we do...



All of your metal stamping and assembly needs from one source



"Your Complete Metal Service Manufacturer"



HQRVEY VOGEL MANUFACTURING CO. 425 Weir Drive • Woodbury, MN 55125-1200 (651) 739-7373 • FAX (651) 739-8666

www.harveyvogel.com

Harvey Vogel manufacturing co.

Quality Metal Stampings and Fabrications from Prototype through Volume Production.

- 2 facilities totalling 203,000 square feet
- Over 200 punch presses (ranging from 10 to 400 tons) to produce stampings from one millimeter to 72" x 36"
- Short run, medium run and progressive stampings
- · Fabrication, laser, machining and waterjet cutting
- Stamp all material types (steel, stainless steel, aluminum, yellow metals)
- Powder coating and mechanical assembly
- Just in time, kanban, 3rd party warehouse and vendor managed inventory programs available
- Ship worldwide
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HARVEY VOGEL MANUFACTURING CO.



Custom Metal Stampings and Assemblies

HV Facilities and Equipment

Two State-of-the-Art Facilities / 203,000 Square Feet / 250+ Employees

Utilizing hundreds of metal manufacturing machines to produce stampings and fabrications from one millimeter to 36" x 96" while maintaining the closest, most exacting tolerances using any stampable material.

Metal Stamping • Fabrication • Machining • Assembly • Powder Coating

COMPLETE TOOL ROOM FACILITIES: 15+ Experienced Toolmakers - Dedicated CNC Machining Centers (3 Axis with 20 Tool Changer) - 5 Wire EDM Machines - Complete Programming Center - 1 Conventional EDM Machine - Vertical and Horizontal Milling Machines with Diaital Readouts - 4 Tool Room Lathes - 5 Surface Grinders - Drill Presses - 150-Ton Hydraulic Arbor Press - 3-Ton Bridge Crane -Blanchard Grinder.

PUNCH PRESS DEPARTMENT: Over 200 Presses, Capacity Ranging From 10 to 400 Tons, Equipped with Quick Change Set Up, Air Ejection, Pneumatic Cushions, Coil Reels and Straightening Feeders, Including:

- 1 Brown & Boaas 400 Ton Straight Side Press, Bed Size 48" x 96". Speed 30 To 60 SPM Fully Integrated Die Change and Feed Line System, Maximum Coil 1/4" x 32" x 12,000 lbs.
- 1 Bliss 300-Ton Straight Side Press. Bed Size 54" x 96", Speed 30 to 120 SPM Fully Integrated Die Change and Feed Line System, Maximum Coil 1/4" x 32" x 8,000 lbs.
- 1 Bliss 150-Ton Straight Side Press. Bed Size 36" x 60", Speed 50 to 120 SPM Fully Integrated Die Change and Feed Line Systems, Maximum Coil 3/16" x 18" x 5,000 lbs.
- 1 Multi Press 150 Ton Hydraulic Press; Greenard 75-Ton Hydraulic Press. For Draws up to 6 inches.

FABRICATING AND PROTOTYPES: 4 Lasers: (1 Trumpf L3030 6,000 Watt Fiber Laser with Dedicated 8-Pallet Tower System, 2 Trumpf L3030 4,000 Watt Lasers with 8-Pallet Tower System, and 1 Mazak Super Turbo X Mark II; 1,500 Watts, 4 x 8 Sheet Capacity) - 2 Turrets (2 Amada Vipros 255 Turret Presses with Automated Load/Unload) - 13 Press Brakes (3) 8', (5) 10' and (5) 12' with Micro Processor Controls Plus 5 with CNC Axis Back Gage.

SECONDARY OPERATIONS DEPARTMENT: Drill Presses and Tapping Machines for Drilling, Reaming, Tapping, Countersinking and Counterboring Holes WELDING: 4 Spot Welders - TIG/MIG Welding - 600 Amp High Speed Fanuc 5 Axis Robotic Weld Cell (30" x 40" Capacity) - Arc Welding - Component Assemblies LEVELING: 3 Straightener/Leveling Machines - Hammerle TRM 50/750 Precision Flat Metal Roll Leveling Machine MACHINING: 10 Haas CNC Machining Centers (Including New VF5 and DM-2).

DEBURRING DEPARTMENT: 4 Vibrating Units - Belt Sanders - 4 Timesaver Sanders with Automatic Parts Washer/Rust Inhibitors - FT-32 Flo Thru Tumbling Machine - Straightliner - Surface Finishing Machine w/ Fiber/Wire/Abrasive Capabilities - Parts Washer.

INSPECTION DEPARTMENT: Coordinate Measuring Machines CMMs Hexagon Global 5 Green 7.10.7 and Brown & Sharpe Global Image 575. 2 1/2 D Planar InspecVision System. Coordinate Inspection Machine (CIM) with Hewlett Packard HP85 Computer -Micrometers - Indicators - Hite Indicator - Height Gauges - Gauge Blocks - Surface Plates - Optical Comparator - Rockwell - Hardness Tester - Go-NoGo Gauges - Optical Profile Projector (20X), Virtek Laser / QC Scanning System - 4 Camera 100% Inspect Vision System for Assembly or Inspection. Keyence Image Dimension Measurement System.

POWDER COATING: 470 FT Automated Line - 5-Step Cleaning Process - Environmental Room & Touch Up Batch Booth

ASSEMBLY DEPARTMENT: 16 Automatic Hardware Insertion Machines - 4 Riveting and Staking Machines - D4 Atlantic Barcode, Label Machines - 3 Aro Drilling Machines - 1 Procunier Drilling Machine - Numerous Machines/Facilities Automated for Project Specific.

MATERIALS WAREHOUSE: 71,000 Square Foot Warehouse. Over 1,500 Different Types and Gauges of Materials Certified to Physical and Chemical Properties. Isolated and Secured Storage Area for Special Materials - 3 Shears, Capacity 12 Feet, 1/4" Thick.

CUSTOMER MANAGED INVENTORY WAREHOUSE: Customer Part Stock System for Just In Time and KanBan Delivery to Customer Dock or Warehouse.

SHIPPING: 12 Ship Docks - Air - Parcel Post - Truck - YRC - UPS - Fed Ex - 5 Counting Scales (Small Parts Plus 5,000 lb. Scale) - Complete Inventory of Packaging Materials - 3 Delivery Trucks (including 1 Semi-Trailer) - Bar Coding - Auto-Bagger.

"Your Complete Metal Service Manufacturer"















Custom Metal Stampings and Assemblies

HV Overview

Harvey Vogel Manufacturing Co. (HV) is a complete metal service manufacturer that was founded in 1942. HV has two facilities totaling 203,000 square feet of manufacturing space and employs over 250 people running three shifts a day up to seven days a week.

Manufacturing Capabilities

- Metal stamping
- Sheet metal fabrication
- Laser cutting
- CNC machining
- TIG welding
- Robotic welding
- Mechanical assemblies
- Powder coatina
- Complete secondary services

Certifications





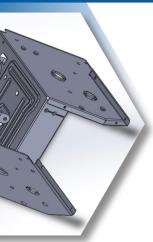


Production Machinery

- Over 200 stamping presses (from 10 to 400 tons)
- Fiber optic laser (6,000 watt)
- 3 CNC laser cutting systems (6,000 watt)
- 2 CNC laser automation systems (24 x 7)
- 2 CNC turret punch presses
- 2 Hydraulic presses for draws up to 6"
- 13 CNC controlled press brakes with 5 axis gauging
- 10 CNC machining centers
- 5 wire EDM machines
- Multiple MIG/TIG/Arc/Spot welders
- Stock reels and feed line equipment
- 3 Hamerlee leveling systems
- 5-stage automated powder coat line



HV Overview



Manufacturing Services

- Design recommendations
- Cost saving techniques
- Rapid prototyping
- In-house tool & die
- Hardware insertion
- Part leveling, grinding & sanding
- Auto sealed air foam-in-bag packaging
- Part deburring & cleaning
- Powder coating



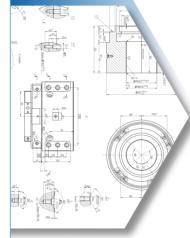
Stocking Programs

- KanBan
- Just in time
- Dock-to-stock
- Pull systems
- Customer-site managed inventory



Quality Assurance Capabilities

- First article inspection reports
- Receiving inspection data
- In-process/final inspection data
- Calibration database
- Corrective/preventative action
- CMMS & optical comparators
- PPAP and capability studies
- Statistical Process Control
- AS9100 Certified



Software & Accepted Electronic Files

- Key Creator Cadkey
- SolidWorks
- Auto-Cad
- Pro-Engineer
- IGES / DXF files

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- Stamp all material types (steel, stainless steel, aluminum, yellow metals)
- Powder coating and mechanical assembly
- Just in time, kanban, 3rd party warehouse and vendor managed inventory programs available
- Ship worldwide
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Custom Metal Stampings and Assemblies

Markets Served

Aerospace Military Medical **Agricultural & Construction Machinery** Computer **Recreational Equipment Industrial Automation Gaming Small Engine** Lawn & Garden

Telecommunications Data Storage Networking Equipment 2nd & 3rd Tier Automotive **Contract Manufacturing Fabrication** Lighting **Banking Food Service Equipment Business Systems**



Manufacturing Processes



Stamping

Short-Run (Stage Tool)

- · Low tooling cost
- Typically 5,000 to 50,000 EAU
- One time tooling charge
- One tool each operation

Progressive Tool

- Higher tooling cost
- Typically 50,000 EAU & above
- One tool all operations



Fabrication

Lasers Turrets Press Brakes

- No tooling cost
- Typically under 5,000 EAU
- Prototypes
- Start up
- Lower volumes



Machining

Vertical CNC Machining Centers

- Tighter tolerances
- Spindle speeds up to 12,000 RPM
- Two heights to 20"
- Thru spindle coolant



Waterjet Cutting

5 Axis Waterjet Cutting

- Thickness up to 6"
- Sheet size up to 6' x 12'
- Nearly all materials

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Parts and Projects Like Yours...

World Class Manufacturina

Harvey Vogel Manufacturing is recognized as a highly diverse supplier of top quality metal stampinas. fabrications and assemblies from start-up applications to Fortune 500 companies.

With over 200 presses, up to 400 tons. Harvey Voael can accommodate any metal stamping need from short and long run to simple and complex parts and assemblies. Our innovative production designed work cells with conveyors and assembly lines produce parts more efficiently, at the lowest cost,



Automotive Service Equipment

- Operations to manufacture are blank, form, heat treat, shot blast, plate and plastisol handle
- Tight tolerance parts with heat treat



ATM Cash Dispenser

- 31 total pieces of hardware
- 9 different types are inserted post plate
- Very tight tolerances



After Market Recreational Equipment

- Fishing boat anchor
- Waterjet cut, form, plate
- 3/8" and 1/2" aluminum



Computer Assembly

- 5-piece assembly, very tight tolerances
- Leveling to .005 across length of part
- Metallurgical testing performed
- Coordination of many outside suppliers and processes



Lottery Chassis

- 7-piece assembly, mild steel with spot welds
- Design input from inception for cost reduction
- Stage tool incorporated to minimize labor costs
- · Weight reduction by use of tooled features
- Custom packaging to eliminate cost and waste

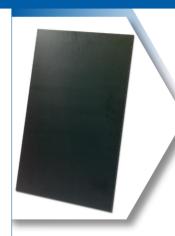
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Parts and Projects Like Yours...



Medical Equipment

- Medical cart for capturing patient information
- Very tight tolerances
- Aesthetic requirements & paint
- Powder coat in-house



Food Service Equipment

- 18" x 20" plate used for keeping food warm in the fast food industry
- Plate is aluminum leveled to 0.20 flat across length of part
- Plate has a highly cosmetic black anodized surface



Agriculture Industry

- Multi-part assembly
- TIG weld
- Complex forms
- Aesthetic requirements & paint
- Powder coat in-house



2nd and 3rd Tier Automotive

- Shifter assembly for military vehicle
- Parts manufactured using stage tools
- 100% cost reduction through process improvements
- Powder coat in-house

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Prototypes

Your partner for precision metal fabricated assemblies

In the process of developing new or improving existing products, your engineering team needs capable partners that are integral to your team. Delivering results in a fast-paced schedule is the key to the success of your project. Harvey Vogel is the ideal partner to become an extension of your team as we can deliver accurate prototypes in as little as 24 to 48 hours.



Supporting Your Engineering

Harvey Vogel will work closely with your team through the design phase to provide components that meet the most exacting form, fit, and function requirements. Our experience will support a Value Analysis/Value Engineering (VAVE) process that balances performance and cost. The payback to you through this process will be recognized through your product launch and production.

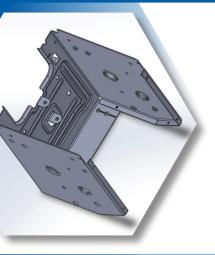
Prototype Capabilities

Our customers benefit from our experience as well as the tools that we have in our tool box. Utilizing multiple CAD platforms on the front-end, we are able to easily work with your designs to help establish a process.

- Laser
- Water Jet
- Turret
- Press Brake
- Assembly
- Welding
- Powder Coating



Prototypes



Case Study 1 Gear Case

Our customer was in process of a complete redesign of their power equipment product line. They were on an aggressive timetable and needed to prototype most of the new designs to prove them out. Our engineering team played an integral role in the VAVE process to ensure that the case could be manufactured cost effectively. The size of this part is 14" x 11" x 11".



Case Study 2 Rotating Base

Our customer needed a new design for a rotating base for an existing product. The initial parts were completed in three days to support required product testing. The testing process identified some issues with the existing design and the part was redesigned. Harvey Vogel made new parts in an equally short timeframe to support additional testing and acceptance to support the product launch. The size of this part is 10° x 6° x 6° .

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Performance Powder Coating

Fully Integrated Manufacturing Saves Time & Money

Harvey Vogel's new state-of-the-art powder coating system saves time and money on your projects that require a painted finish. Outsourced painting requires packing and shipping parts to another facility. It can take weeks for the parts to return for final assembly and shipping.

In-house powder coating enables HV to ship product days and even weeks faster. The other advantage of a full-service operation is the cost savings. Controlling all the aspects of your project under one roof allows us to price aggressively.

Get high-quality parts faster and at a great price with Harvey Vogel Manufacturing Co., your full-service metal manufacturer.

System Overview

- In-Line Overhead Monorail Powder Coating System - 470-foot long variable speed conveyor
- 5-Stage Stainless Steel Washer - Product size up to 12" wide X 48" high X 48" long
- In-Line Dry Oven
- Parker Ionics Q-Flo-4500 Powder Booth with Accessories - 2-person booth with manual guns
- Parker Ionics Q-Flo-1500 Powder Booth with Accessories - 1-person booth with manual gun for samples/prototypes
- **Environmental Room for Powder Booths** - 25' X 36'
- In-Line Cure Oven



Finishes for Every Part

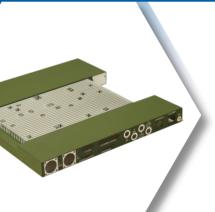


Medical Chassis



Agriculture Flow Control

Precision Masking & Plugging | Difficult Angles | On-Site Quality Control | Color Matching | Various Finishes



Military Communication



Packaging Machine - Cover

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Assembly

Your partner for complex assemblies

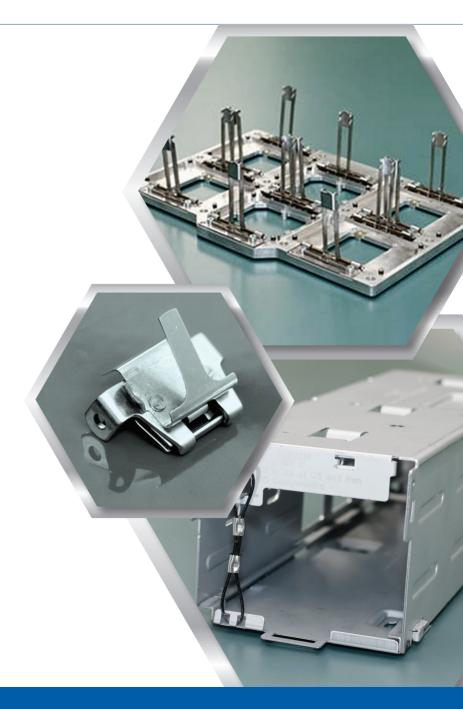
Harvey Vogel now adds even more value by assembling your complex stampings and components into more advanced sub-modules that can then be easily assembled right into your final OEM product. Save time and money with assemblies from Harvey Voael.

From a Few Components to Hundreds

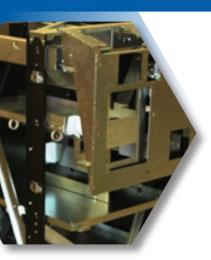
At Harvey Vogel we can simply assemble a few parts for you or complete a Bill of Materials (BOM) of hundreds of different components. Our strong project management teams allows us to build, procure and assemble various metal, plastic, wiring and other components to create your final product with the highest quality. We can also finish your parts to meet any of your requirements. This greatly simplifies your process by using only Harvey Vogel instead of hassling with potentially hundreds of vendors.

Our Assembly Experience

Harvey Vogel is a leader in the manufacturing of difficult metal stampings and assemblies for a wide variety of industries. With over 75 years of excellence in manufacturing, our team of over 200 dedicated professionals is ready to assemble your stampings, fabrications and purchased components into your final creation. Whatever type of assembly, submodule or value add you need, Harvey Vogel can pull it all together for you!



Assembly



Case Study 1 **Automated Teller Machine**

This precision assembly consists of 77 metal stampinas, 34 purchased components, and hundreds of hardware pieces using over 20 vendors. The end result is a sophisticated ATM. Harvey Voael stamps the complex metal components and assembles them into a sub module saving the customer thousands of dollars and significantly reducing the number of vendors required.

Core services provided:

- Metal Stampings & Fabrication
- Welding, Painting & Plating
- Purchased Components:
 - Plastic
 - Slides
 - Locks
 - Custom Packaging
- Final Assembly



Case Study 2 **Medical Transfer Cart**

Completely designed by Harvey Vogel, the final product consists of 22 metal components and 15 purchased components from 13 separate vendors. The end product is a transfer cart for distributing medical supplies and medicine in hospitals. Harvey Vogel ships all the final carts to the end customer saving time and money.

Core services provided:

- Metal Stampings & Fabrication
- Powder Coatina
- Purchased Components:
 - Plastic
 - Rubber Bumpers
 - Casters
 - Hardware & Hinges
- Final Assembly

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Contact Personnel

In order to facilitate the most efficient handling of any requests, we ask that you contact the following personnel regarding those subjects indicated. Thank you so much for choosing Harvey Vogel Manufacturing Co.

Bob Verhey President & CEO

Dave Daley Vice President of Finance

SALES, QUOTATIONS and PRICING

Matt Mountain, Vice President of Sales & Marketina

Bob Sproull, Sales Manager

Scott Peterson, Sales Account Engineer

Mike Higgins, Sales Account Engineer

Kasey Kruger, Sales Account Engineer

Phil Vesaas, Sales Account Engineer

John Griswold, Sales Account Engineer/Marketing Manager

Dave Larson, Director of Process Engineering Ted VanRanst, Process Engineer Manager Diana Ous, Process Engineer Associate Loni Reule, Credit & Invoicing

Stacey Blizzard, Sales Administrative Associate

Steve Longhenry, Senior Sales Engineer

CUSTOMER SERVICE, PRODUCTION SCHEDULING and DELIVERIES

Marnie Dantzer, Vice President of Operations

Scott Dowson, Director of Materials Management & Customer Service

Jake Darsow, Materials Manager

Brian Linehan, Production Control Manager

Pam Banaszewski, Production Expediter Karen Cordova, Production Planner

Brittany Symanietz, Production Planner

QUALITY CONTROL

Darren Dershem, Director of Quality & Continuous Improvement

Tim Keeley, Quality Control Manager

Nick Hoffmann, Manufacturing Quality Engineer Gene Tremaine, Manufacturing Quality Engineer Jeff Staton, Manufacturing Quality Engineer

ENGINEERING and OPERATIONS

Kent Stepan, Director of Engineering

Jay Case, Director of Operations

John Nosbusch, Director of Operations / HV West

Jim Plumer, Operations Manager / HV West Wess Buren, Shipping Manager

"Your Complete Metal Service Manufacturer"









and 14001 Certified Company







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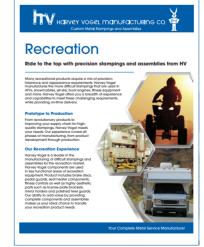






"Our most important mission is complete customer satisfaction!"

> - Bob Verhey, **President & CEO**







Your Complete Metal Service Manufacturer

Metal Stamping Sheet Metal Fabrication Laser Cutting CNC Machining Water Jet Cutting TIG Welding Robotic Welding Mechanical Assemblies Powder Coating Complete Secondary Services



