



HARVEY VOGEL MANUFACTURING CO.

Custom Metal Stampings and Assemblies



HV Facilities and Equipment

Two State-of-the-Art Facilities / 203,000 Square Feet / 300+ 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 Digital 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 & Bogs 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: (2 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 (3 Amada Vipros 255 Turret Presses with Automated Load/Unload) - 15 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: 5 Straightener/Leveling Machines - 2 Hammerle TRM 50/750 Precision Flat Metal Roll Leveling Machine MACHINING: 12 Haas CNC Machining Centers (Including New VF4 and DM-2).

DEBURRING DEPARTMENT: 4 Vibrating Units - Belt Sanders - Grinders - 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 Proconier 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"

HARVEY VOGEL MANUFACTURING CO.

425 Weir Drive Woodbury, MN 55125-1200
(651) 739-7373 • FAX (651) 739-8666

www.harveyvogel.com



Harvey Vogel is an AS9100, ISO 9001 and 14001 Certified Company