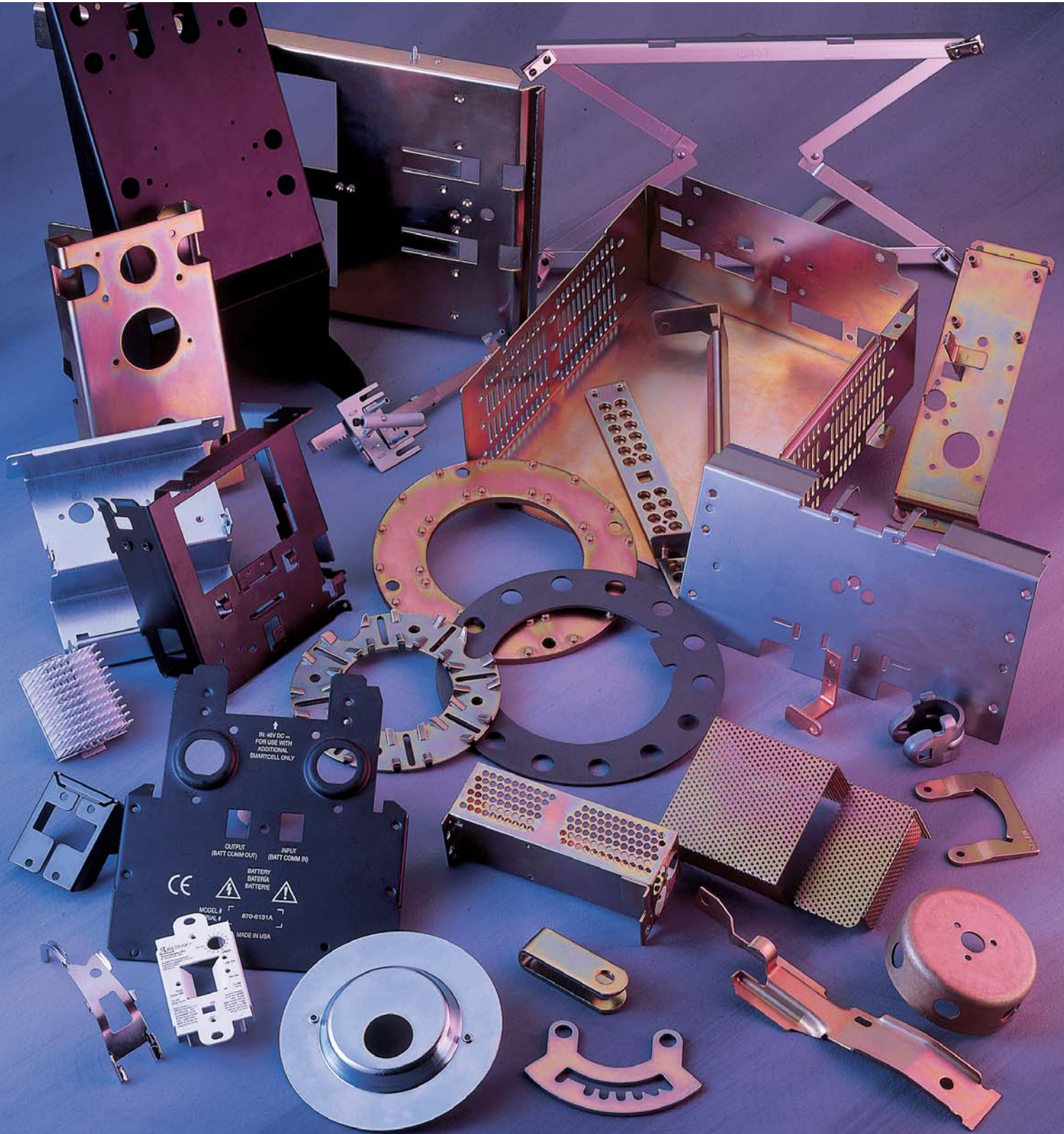




HARVEY VOGEL MANUFACTURING CO.

Custom Metal Stampings and Assemblies



“Your Complete Metal Service Manufacturer”



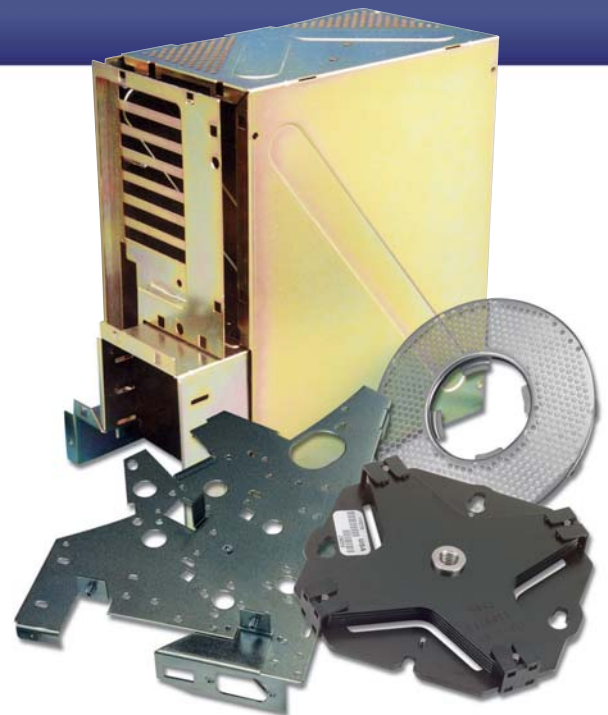
# "WE CAN DO MORE FOR YOU."

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!"

## 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



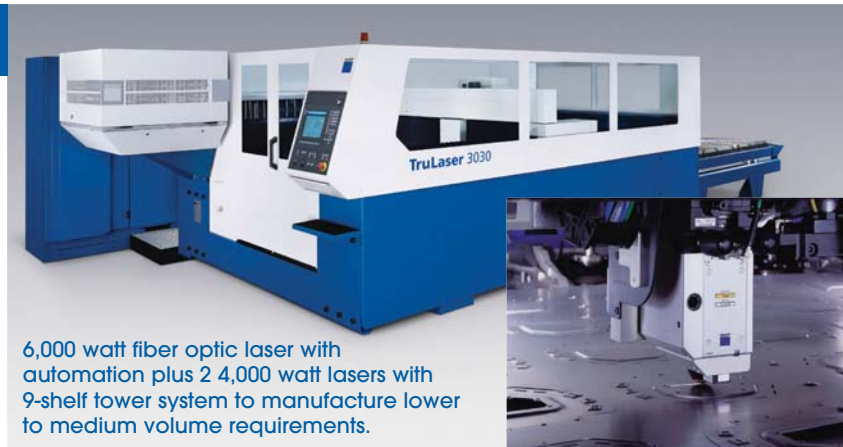
Harvey Vogel is an AS9100, ISO 9001 and 14001 Certified Company

# 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

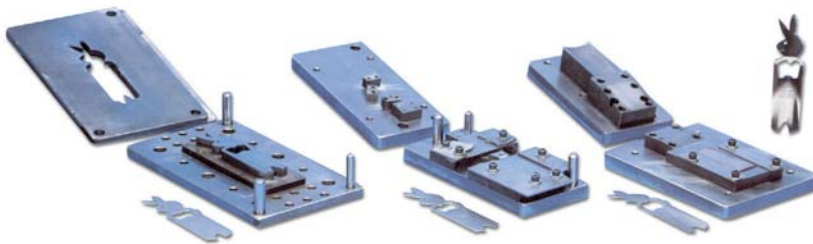


6,000 watt fiber optic laser with automation plus 2 4,000 watt lasers with 9-shelf tower system to manufacture lower to medium volume requirements.

## 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

We can meet all of your short to medium run needs with low cost short-run tooling.

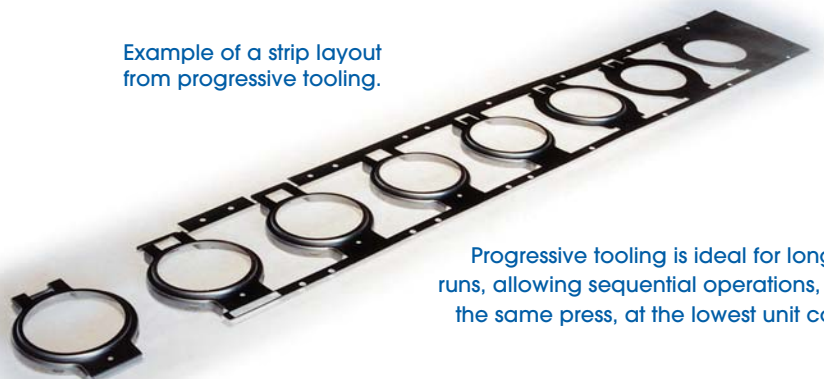


Examples of short-run, semi-permanent blank, pierce and form tooling.

## Longer Run Volume

- 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

Example of a strip layout from progressive tooling.



Progressive tooling is ideal for longer runs, allowing sequential operations, on the same press, at the lowest unit cost.





# Harvey Vogel adds value to everything we do...

Assembly

Painting

Plating

E-Coat/Anodize

Waterjet

Leveling

Deburring

Box Builds

Machining

Hardware Installation

Powder Coating (NEW!)

Heat Treating

Spot Welding

Tig & Mig Welding

Silkscreening

Double Disc Grinding

Labeling

Bar Coding

Kanban, JIT & 3rd Party Warehousing

All of your metal stamping and assembly needs from one source



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
- AS9100, ISO 9001 and ISO 14001 certified



**"Your Complete Metal  
Service Manufacturer"**

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