

Valley Gear & Machine Inc.



Helical, Worm, & Key Ways

*For all your machining, gear cutting,
and custom machine building needs!*



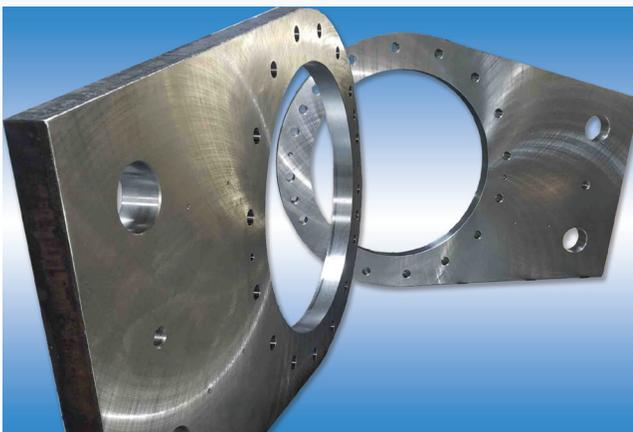
Specialized Equipment Design & Build



Worm & Worm Gears



Parts



Large Format Plate Work

Visit our website at
www.valley-gear.com

CUSTOM GEARS & SPROCKETS

With Valley Gear's versatile production facility, we can produce a variety of **sprockets, pulleys & gears**, including helical, spur, rack, ring, and worm gears. We can process in aluminum, brass, bronze, copper, plastic, stainless steel, cast iron, or standard steel grades and in sizes up to 42" in diameter.



Small Gears & Worms



Worm & Worm Gears



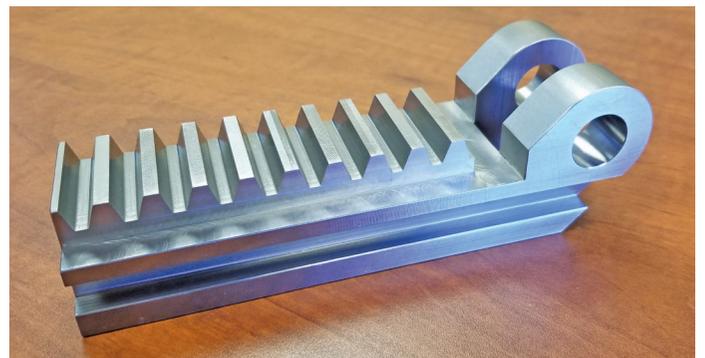
Custom Racks



Custom Sprockets



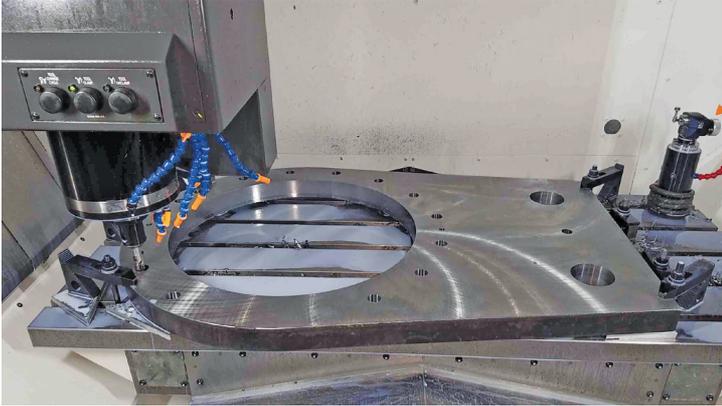
Cluster Gears



Specialized Rack

CNC MILLING & TURNING

Valley Gear primarily relies on Okuma CNC Mills and Lathes which utilize “cutting edge” technology. We are able to produce high-tolerance parts at competitive pricing and FAST turnarounds. We are capable of full 3D contour work allowing us to produce mold cavities to standard 2D flat work. Our CNC lathes offer bar feeds and live tooling. We can use your provided CAD files, or we can design and provide you with 3D CAD models of your parts.



Large Plate Work



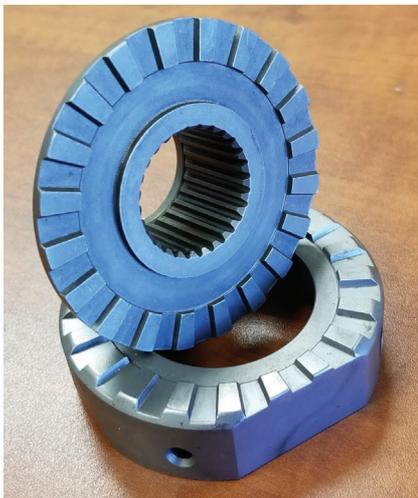
Precision 3D Contour Work



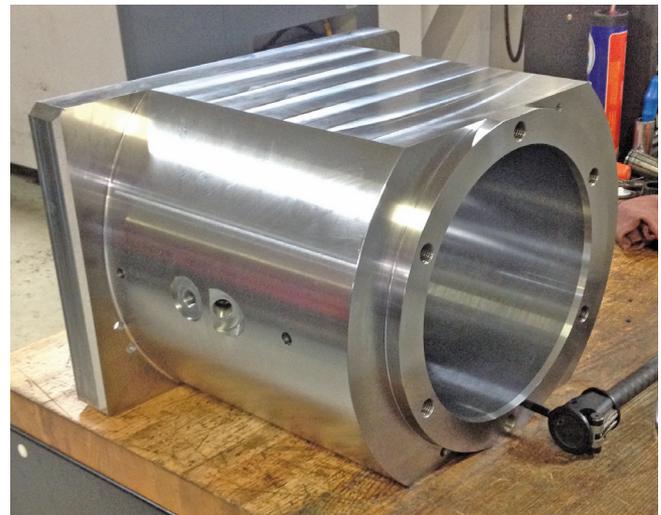
Weldment and Fixture Work



Aluminum Plate Work



Specialized Cog Teeth



Specialized Spindle Work

MACHINE BUILDING

Valley Gear provides **custom machine design and build capacities**. We work with the customer's product requirements and help to develop the machine solution from concept to build and to final installation/run-off. We have machinery on almost every continent of the world. Our first 30 years of business were built solely on word-of-mouth, our quality is paramount to our success and yours.



Automotive Auto Decoiler and Cutter



Ag - High Speed Tile Perforator



Ag - High Speed Drilling Machine (3 Row)



Automated Radiator Core Assembly Machine



Custom Utility Lift



Custom Utility Lift

DESIGN, PROTOTYPES, & CUSTOM ELECTRICAL CONTROLS

Have an idea? Valley Gear can help you design it and make the prototype. Our electrical engineer can work with you to develop and build your customized electrical control.



3D Scan - Reverse Engineering



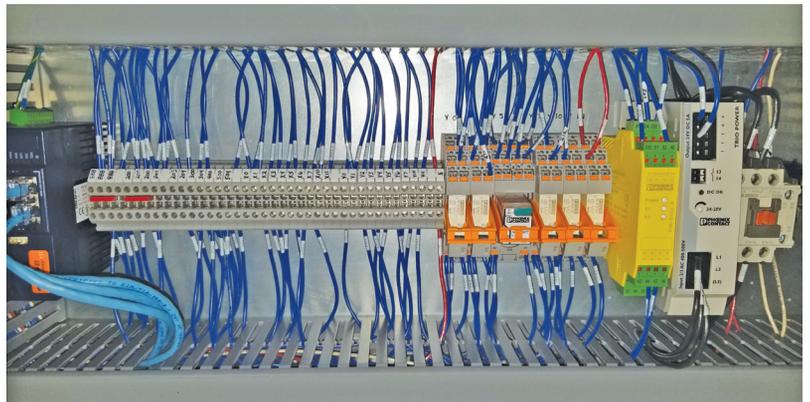
Electrical Control - Inside



Electrical Control - Outside



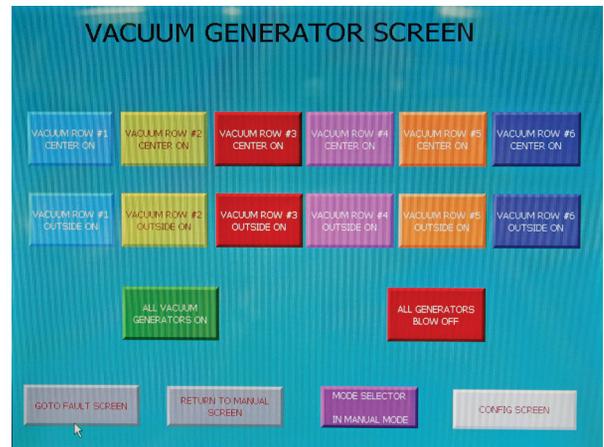
Ski-Doo Modified Secondary Clutch Tower



Custom Electrical Control



Custom Air/Drill Cylinder



PLC Touch Screen

FIXTURING & WELDMENTS

Valley Gear can provide you with **weldments and fixtures**. We can design and build for you, or we can process your prefabricated parts. We strive to provide quick turnarounds for those “just in time” jobs.

Fixture Work



GEAR BOXES

Valley Gear produces a wide range of products from 30 HP to 50 HP units. Many of these units are products formerly produced by **Ramsey Winch, Braden Winch, and Tulsa Winch** companies along with Valley Gear's own 4-speed gear box. Units include single to 4-speed units with or without reverse and/or neutral positions. Transmissions, hanger bearings, power dividers, and speed reducers, along with full-service repair and repair parts are available. Valley Gear produces everything except for the bolts, seals, bearings, and castings.



Gear Box Assemblies



Ramsey 4MS Gear Box



Gear Box Internals

EQUIPMENT

Valley Gear is constantly updating our state-of-the-art equipment. Some of our equipment includes:

HOBBS:

- 2 Gould & Eberhardt 48" dia / 4" face vertical hobb
- 1 Wuhan W1YJ3 - 120" diameter / 33" face vertical hobb
- 2 Barber Coleman - Model 16-36
- 2 Barber Coleman - Model 16-16
- 3 Barber Coleman - Model 12 w/ differential
- 2 Barber Coleman - Model 6

SHAPERS & SHAVERS:

- 2 Barber Coleman - 4 1/2" stroke / 12" diameter
- 3 Fellows 4-7" stroke / 24-36" diameter
- 2 Red Ring Gear Shaver

BROACHING:

- 3 Broaching Machines - Colonial, Oil Gear and Lapointe - vertical and horizontal

CNC MILLING:

- 1 Okuma MB-66VB - 15,000 RPM spindle w/Rotary Table, Renishaw Probing System, gauging and MM probing and 4 & 5 axis operations.
- 1 Okuma MB5000H - w/Pallet changer, quick change tomb stone part holding, gauging and CMM probing.
- 1 Miltronics Bridge Mill BR60
- 2 Fadal Machining Center - Model 6030 w/rotary table
- 3 Fadal Machining Center - Model 4020 w/rotary table

CNC TURNING:

- 1 Okuma LB3000EX - Live tooling, 1 5/8" sub spindle, 2 3/4" bore, 10" chuck
- 1 Okuma Crown L1420 - 3 1/2" bore, 15" chuck, 56" tailstock, 12" max OD
- 1 Okuma Cadet - 2 5/8" bore, bar feed, 16" length, 10" chuck, 9" max OD
- 1 Okuma LB15 - 8" chuck, 9" max OD

OD GRINDING

- 1 Okuma GP26T
- 1 Landis manual grinder

SURFACE GRINDING

- 1 Gallmeyer & Livingston Model F
- 1 Hammond
- 1 Reid

SLOTTING/KEYS

- Morey Slotter

TEST EQUIPMENT

- Mitutoyo CMM
- Illinois lead checker
- Rockwell tester
- Sunnens bore gauge set

HONE EQUIPMENT

- Sunnens Hone MBC-1805D - horizontal
- Sunnens Cylinder King CV-616D vertical

GENERAL SHOP EQUIPMENT

- Amada Saws
- Cyclone sand blaster
- Forklifts
- Welders
- Chopsaw

CAPABILITIES

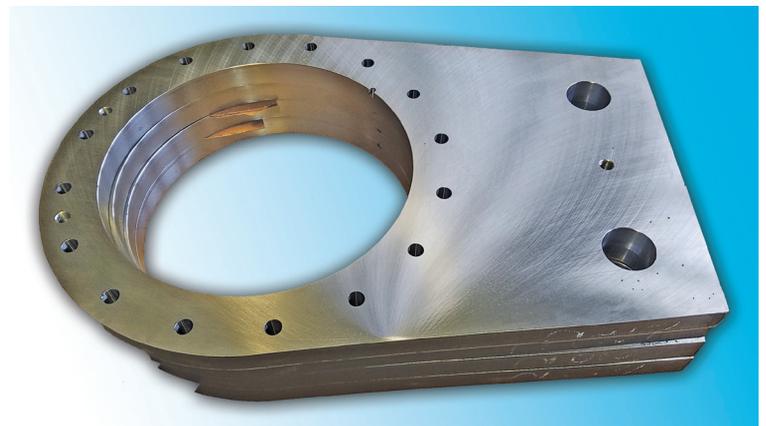
- *Small, large or prototype orders welcome
- *Large variety of materials available
- *Services include design work, CNC milling, CNC turning, gear cutting, broaching, hobbing, grinding, and reverse engineering.
- *Outsourcing includes heat treating, ceramic/chrome coating services, pattern/casting services, powder coating, bevel, and spiral bevel gears.

SOFTWARE

AutoCAD, Master Cam, Solid Edge, Solid Works



Upgraded SKi-Doo Secondary Clutch Tower



Large Plate Work

ABOUT US



In 1989, we started out as a small, local machine shop in a 40 x 60 (2,400 sq. ft.) building in the back yard of our owner, Richard Booms. Over the years, we moved into our current location, expanding several times to a total now of over 26,000 square feet of manufacturing area. Our current talented staff has a combined total of over 265 years of engineering, customer service, sales, design, manufacturing, and machining experience.

Our products include a machine called a Perforator, used in the agricultural drain tile industry. We designed, patented, and produced this machine to aid in the removal of water in any area through the use of perforated plastic corrugated tile. We build various other specialized machinery to meet our customers' needs.

We have purchased 3 gearbox/winch companies and now produce several styles of multi-speed industrial transmissions, hanger bearings, and speed reducers with all components manufactured here in Bad Axe, Michigan. These products are mainly used in the oilfield, mining, food processing, custom truck and trailer and plastics industries.

We are a gear shop equipped for any size job. No job is too small. We are located in a farming community, and we proudly provide what our customers' needs are whether it be an excavator part, tractor part, race car part or a tractor-pulling part. Just bring in your broken or worn sample, and our talented staff will get you back on the job.

We are a qualified source for all your metal working needs.

Please call or email us today for a quote.



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