

GEM Manufacturing, Inc.

TURNING

GEM Manufacturing, Inc. is a contract manufacturer specializing in high mix, low to mid volume CNC Turned and Milled products.

We manufacture over 2,000 different part numbers annually in volumes from 5 to 50,000. Our Commitment to servicing our customers through quality production, competitive pricing, and excellent customer service has been the bedrock of the company for 40 years.

Single Source responsibility, Lean, Six Sigma, has latest technologies and the management team has over 100 years of combined machining industry experience.

ISO 9001:2008 registered, API Q1 Compliant

Fully Level 3 PPAP and APQP Support

Industries Served –

Agriculture

Hydraulic

Energy

Additional Markets – Many other Industrial Applications



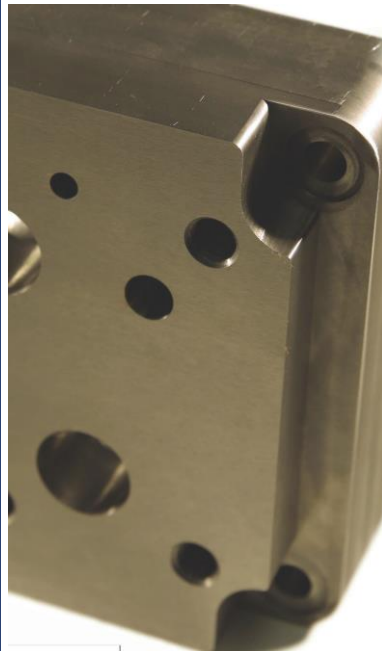
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TURNED PRODUCTION PARTS

Hydraulic Barrels

- Tight Tolerances <math><0.0005</math>, Ra <math><32</math>
- Lowered Piece Price 20%
- Great Finishes, burr free
- Provide raw and finished goods inventory management

Locking Hub

- Lowered Operations from 8 to 5.
- Improved Quality
- Lowered Piece Price 50% from Previous Supplier
- Kanban Inventory System that provides raw and finished goods inventory management
- Level 2 PPAP as part of formal APQP Process



WHY GEM?

- 40 years in Business
- 30+ years as Trusted Supplier to a number of Fortune 500 OEMs
- Latest Technology
- LEAN Manufacturing
- Six Sigma
- Highly Skilled Staff
- State of the Art Facilities

Specialists in the Machining of:

- Carbon/Alloy Steels
- Stainless Steels
- Aluminum & Brass
- Cast Iron
- Forgings
- Housings
- Casting Bodies
- Shafts
- Pins
- Bolts
- Special Fittings
- Spindles
- Flanges
- Pulleys
- Bushings
- Gear Blanks
- Spools
- Cable Fittings
- Custom Fasteners
- Stainless Fittings
- Adapters
- Light Assemblies
- Valve Bodies
- Pistons
- Spacers
- Receivers

CERTIFICATIONS:

- ISO 9001:2008 Certified
- VERISYS Registered
- ANSI-ANAB Accredited
- API Q1 Compliant

+ TURNED SERVICE PARTS

Provide service parts for numerous major agriculture equipment manufactures, energy, fluid handling, etc.

More than 3000 'active' part #s.
1500-2000 P/Ns might run in a given year.

Manage raw and finished goods inventory – might carry product for three years.

1. Receiver Covers for Fluid Handling Industry

- 1.625" 6061 Material
- 1 Machining Operation
- Bulk Packed
- Anodized
- Kanban Inventory

2. Spacer for Agriculture Service

- 395mm DI Casting
- 3 Machining Operations
- Pre-Machined Paint to lower costs
- Work holdings made to minimize impact to finish

3. Locking Hub for Agriculture

- 5.750" 4140 Q&T
- 1 operation
- Reduce costs 20%
- Raw stocked @ Supplier
- Kanban of Finished parts to smooth demand spikes

4. 15" Piston for Energy Industry

- 15.000" 316 SS, 350 lbs
- <0.002 Tolerances
- 2 operations
- Reduce costs 15%
- Crane Assist Load/Unload

1.



2.



3.



4.





EQUIPMENT LIST

CNC Turn/Mill Centers

- 3- Mazak SQTN CNC Turning Centers w/ Y Axis
- 2- Mazak SQTN CNC Turning Centers w/Milling
- 1- Mazak DUAL TURN Turning Center with Robot

CNC Milling Centers

- 3- Makino A51 Horizontal Milling Centers
- 1- Haas VF2 Super Speed Vertical Milling Center
- 1- Mazak VCN510 Vertical Milling Center

Plus Other Equipment

Parts Washers, CNC Horizontal Saws, Dot Matrix Marking Machines, Surface Grinders, Sunnen Hone, Numerous Shop Lathes and Mills

Fully Equipped Quality Lab Equipment

Manual and Programmable CMMs, Fixtures, Air Gaging, Flatness Testing, Laser Micrometers, etc.

CAPABILITIES

Single Source Responsibility in:

- Heat Treat
- Plating and Coatings
- Grinding
- Broaching
- Gun Drilling
- Welding
- Light Assembly
- Special Packaging

Hub, Pulley, Castle Nut, Ball and Quick Connect Receiver – from Forged Aluminum, 6061, 1045, 4140



Tachometer Drive, Pin Assemblies, Threaded and Welded Studs – from 1215, 4140, 6061, 8620



Shafts, Pins, - from 303, 4140, 1045, 12L14



Call or visit our website for more information! gem-mfg.com

