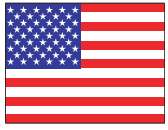


Parts Finishing ***Group***



Family Of Secondary Manufacturing Service Companies

6 Plants Serving The USA & Mexico
Quality Finishes



Parts Finishing Group • Queretaro Mexico – 66,000 Sq. Ft.
Serving Mexico

MAJOR COATINGS

ADHESIVE - Rubber to Metal Bonding

EPOXIES

ZINC RICH COATINGS

DRY FILM LUBRICANTS

ZINC PHOSPHATE

MILITARY

FINISHING SERVICES

Vibratory Deburring

Shot Peening, Shot Blasting

Parts Washing

Honing

Paint Removal

Gun Drilling

**ISO9001:2000
REGISTERED**

800-234-5342

**ISO9001:2000
REGISTERED**

CAGE #5QQ56

FAX: 586-759-4429 • Phone: 586-759-3559

24600 Industrial Highway, Warren, MI 48089

Website - www.partsfinishing.com Email - info@partsfinishing.com

PARTS FINISHING GROUP PLANT/PROCESS MATRIX

PARTS FINISHING GROUP PLANTS

PFG PROCESSES	Automated Deburring, JML, A-1 Parts Washing	HI Tech Coatings	Michigan Hone & Drill	Shot Peening/Shot Blasting Division	PFG Queretaro, MX	
	Numbers Indicate number of Machines at Plants					
Shot Blast/Shot Peen	-	1	-	30	3	Pre-Treatment
Parts Washing	6	2	1	2	1	Pre-Treatment
Deburring	15	-	-	-	1	Pre-Treatment
Phosphate Coating Line	1	2	-	-	1	Pre-Treatment
Paint Stripping Line	-	-	-	3	1	Pre-Treatment
Rust Removal	2	2	-	6	1	Pre-Treatment
Autophoretic	-	-	-	-	-	Coating Line
Adhesives	Yes	Yes	-	-	Yes	
Dip Spin Line	1	2	-	-	4	Coating Line
Drip Drain Line	2	-	-	-	2	Coating Line
Chain-On-Edge Line	3	3	-	-	2	Coating Line
Spray Coat Line	3	-	-	1	1	Coating Line
Tumble Spray Line	-	3	-	-	1	Coating Line
Zinc Rich	Yes	Yes	-	-	Yes	
Dry Film Lubricant	Yes	Yes	-	-	Yes	
Honing	-	-	30	-	-	Machining
Deep Hole Drilling	-	-	10	-	-	Machining
Machining	-	-	15	-	-	Machining
Sorting	Yes	Yes	Yes	Yes	Yes	

FORD MOTOR

S2 (ESS-M3P20-A)
 S-4 (WSD-M21P10-B2)
 S-58 (WSD-M21P10-B3)
 S303 (WSD-M21P10-B3)
 S306 ESF-M99C38-B
 S424 WSK-M31P-A&C
 ESB-M64J24

TYPICAL SPECIFICATIONS

CHRYSLER

PS508 PS4764
 PS80 PS80BLK
 PS174 PS980
 PS933 PS7001
 PS6061 PS8875

GENERAL MOTORS

GM-4276M GM-4435M
 GM-4277M GM-6001M
 GM-4343M GM-6035M
 GM-4345M GM-6046M
 GM-4350M GM-6174M

Arvin Meritor: P91

BMW: 90010

Bosch: 800 00/ 3+4, Y265 F21056/1

British Leyland:

BLS 21 FB 03 ISS2, BLLS 22 OF 3 IS,
 BLS 22 OF 3 IS, BLS.21 FB.04

Continental:

ATE N 106 61

Cummins: 74058, 74013, 74020

Delphi: DX550010, DX551802.

DX550041, DX551803, DX551801

Jaguar: JMS 10.22.05

Kamax: KX-5503, KX-5506

Nissan: NES M4601

Porsche: PN 11003-1

US Army (TACOM): 12469117, 12469117

Department of Defense: DOD-P-16232-F

Renault: 01-71-002/--Q

Renault Truck: 01.71.4002/F

TRW: TS2-21-79, TS2-25-60

Volkswagen: TL 196, TL 217,
 TL 233, TL 242, TL 265

Volvo: STD 5752,53

Yale: 402032

ZF: ZFB 998, ZFB 865

GENERAL

LORD-CHEMLOK ADHESIVES - DOW, ACHESON WHITFORD COATINGS - PIGMENTED I.D. PAINTS-PTFE (TEFLON) ®
 MOLYDISULFIDE - MAGNI, FUCHS & DOERKEN

Automated Deburring

Automated Deburring is located in a 50,000 sq. ft. building with seven shipping docks. The plant runs two shifts to better serve customer schedules. Automated has extensive vibratory and tumble deburring equipment. This plant is also well equipped with parts washing and parts drying equipment.

PFG's large and varied bank of equipment enables the company to competitively respond to most any customer application. Experienced in developing advanced solutions to metal finishing problems, Automated Deburring's engineering staff and processing personnel are quick to provide creative solutions to the customers deburring needs.

Automated's two-shift operation enables PFG to schedule parts for one day turnaround or same day service on emergencies. This large plant has the capacity to mass finish production parts involving the following processes:

- **Derusting**
- **Drying**
- **Radiusing**
- **Chamfering**
- **Polishing**
- **Rust Inhibiting**
- **Rust Removal**
- **Parts Cleaning**
- **Ball Burnishing**
- **Tumble Deburring**



Vibratory Finishing

A1 Parts Washing

This production parts washing service delivers the solution to parts cleanup for an extensive range of part sizes. Equipped with new State-of-the-Art cost effective washing systems, A1 Parts Washing can respond promptly to customer needs for part processing.

Stainless steel rotary drum type machines are used for small parts applications. A computerized washing line is used for fragile parts. Continuous belt type washing systems are available for parts up to 18" x 35". The processing steps include pre-wash, rinse, rust inhibit, blow-off and dry.



Parts Washing

This plant also has a large conveyORIZED parts washer and dryer for fragile parts that require gentle handling. In addition, A1 is able to remove rust by choosing from several custom mass production processes.

Through professional parts washing services, manufacturers and component producers are assured of effective chip removal and the elimination of grit, oils, coolants, and stamping compounds from ferrous and nonferrous parts.

Offering **24 hour processing service**, A1 Parts Washing operates an inspected and approved wastewater treatment system.

Parts Finishing Group Is Your One Stop Solution Shop



Dip/Drain line at the modern 50,000 sq. ft. plant in Warren, Michigan.

PFG has 3 large coating plants that specialize in the application of the following coating groups:

- Adhesives – For Rubber to Metal bonding
- Dry Film Lubricants
- Zinc Rich Coatings
- Lacquer and Enamel Coatings
- Military - Epoxy - CARC

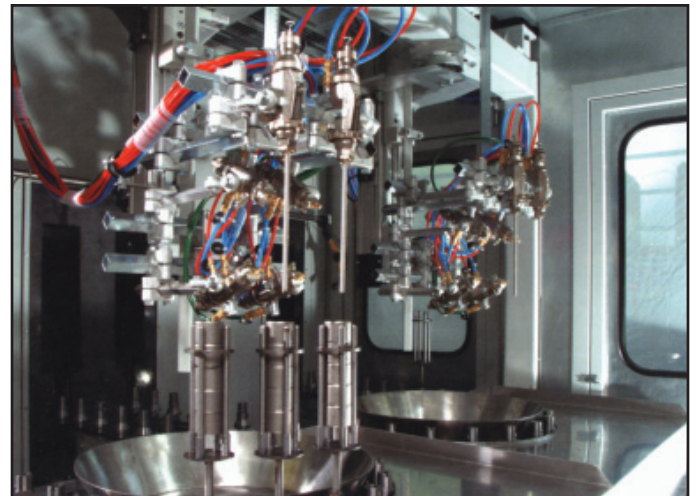
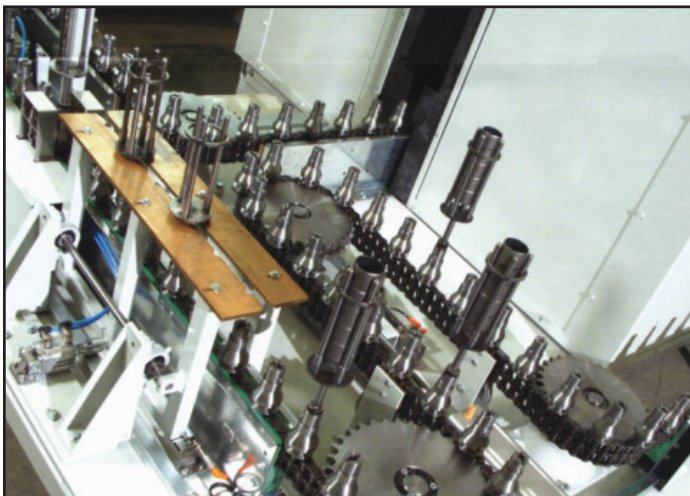
All of these plants are equipped with pre-treatment phosphate coating and shot blasting equipment.

PFG has a wide variety of processing equipment to effectively match process to application

Coating Processes

**Chain on edge, Wet Spray, Tumble Spray
Dip & Drain, Dip & Spin**

Plants are facilitated with new, high-speed, state of the art equipment which consistently produces world class quality parts. The chain on edge machines are capable of coating inside only and outside only surfaces. The dip/drain line is an emersion process that can completely or partially coat various components. The tumble spray process effectively mass coats small parts. The dip/spin can mass finish various sizes and types of parts that need coating on all surfaces.



Chain on edge line at the state of the art 44,000 sq. ft. plant in Warren, Michigan.

Parts Finishing Group Locations Provide Logistical Savings

Phosphate Coating

PFG has 5 large Jessup phosphate coating lines located in the USA and Mexico.

Capabilities:

- Zinc Phosphate-Ca-Mod, Medium, Heavy
- Manganese phosphate • Phos & Oil
- Swageable Phosphate • Wet Chem. Lab
- Dry to the Touch • Alkaline-Rust Removal
- Acid-Rust Removal • Pickle & Oil



Hi speed zinc phosphate barrel coating line at the 66,000 sq. ft. plant in Queretaro, Mexico.

SHOT BLASTING

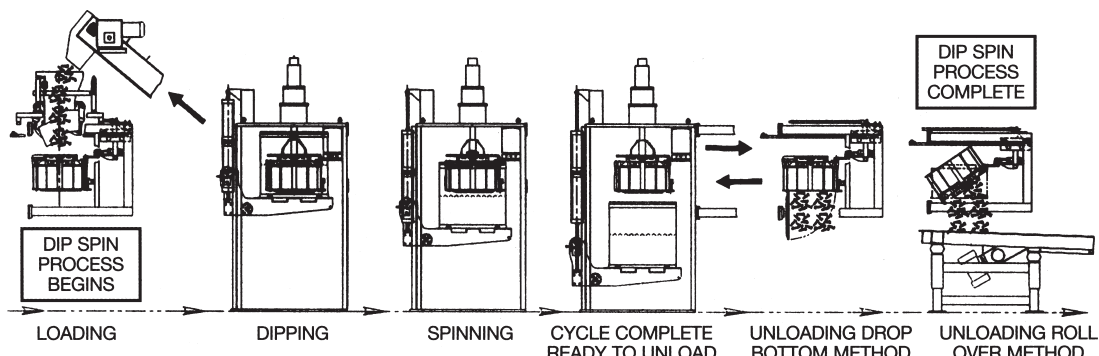
In addition to the two large peening/shot blasting plants in Detroit, PFG has blasting equipment located on-site at all three large coating plants. PFG also shot blasts for customers on a contract basis.

PAINT REMOVAL

PFG has paint removal capabilities at four plants in the USA and one in Mexico. Two of the plants have Kolene removal lines 900°F liquid salt. Two of the plants have burn-off ovens. This process enables PFG to clean fixtures and reclaim parts if necessary. PFG also strips parts for others.

The Dip Spin Process

For Mass Metal Finishing

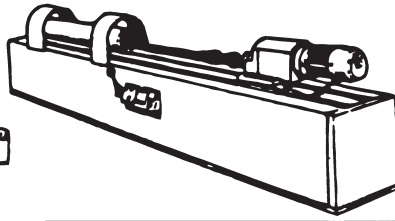


2 PFG Plants Utilize The Dip Spin Process.

Zinc Rich, Adhesives, Dry Film Lubricants, Iron Phosphate, Acid Etch, Aluminum Wash, Lacquers and Enamel Coatings that can all be applied using the Dip Spin Process.

Michigan Hone & Drill

Michigan Hone and Drill delivers full line honing and deep hole (gun) drilling services. MHD also has a complete machine shop to produce prototype and short run production parts. Additional equipment includes: CNC, Bridgeports, Mills, Grinding, EDM and tube cutting. One stop shop for deep drilling, then honing and then facing. Large bank of machines and open capacity enables PFG to react to large temporary OEM outsourcing resulting from down machinery or delays in installing new lines. **PFG fills the gap.**



• Full Line Honing Service
• Gun & Deep Hole Drilling Service

PROTOTYPES • PRODUCTION • REPAIRS
• AUTOMOTIVE • AIRCRAFT • INDUSTRIAL • DEFENSE

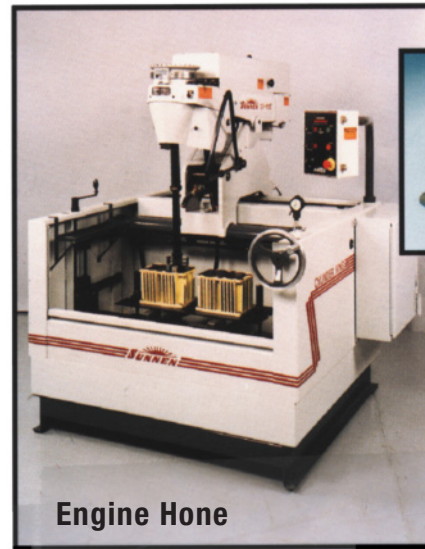
TECHNICAL CAPABILITIES

Honing - 30 Vertical & Horizontal Honers .06"-14.00" Dia. to 120" Long

Gun Drilling - 10 Gun Drills .06" to 2.00" Dia. to 108" Long

Quality Control is maintained using SPC, Air Gages and Surfometers. Gages are calibrated to Military Standard 45662. ISO 9001-2000

Production / Prototypes / Repairs



Engine Hone

WE DRILL & HONE

- Ball Screws
- Bushings
- Cylinders
- Stampings
- Engines
- Gears
- Connecting Rods
- Piston Liners
- Valve Bodies
- Gun Barrels
- Die Castings
- Tubing etc.

MATERIALS: Steel, Cast Iron, Aluminum, Brass, Bronze, Carbide, Plastic, Ceramic & Chrome

QUALITY CONTROL / INSPECTION: SPC, Air Gauges, Surfometers, Carbide Tipped, Bore Gages

- All Sizes, Gages Calibrated to MIL STD .45662

TOOLING: Complete Wide Range Of In House Tooling For Most Applications, (Example .450" Mandrel To Hone 25" Length). We Utilize Conventional, CBN, Diamond Abrasives, and Carbide-tipped Drills.

OTHER SERVICES: Deburring, Part Washing, Shot Peening, Tumble Blasting, Spray Painting

GENERAL: Same Day Service Available

HONING MACHINERY: Horizontal Sunnens, Vertical Micromatics

DRILLING MACHINERY: Eldorado, National and Pratt & Whitney Drills

800-567-1736

OR CALL 248-616-9310 • FAX: 248-616-0799

32370 Howard Street, Madison Heights, MICHIGAN 48071

Bellevue Processing and Metal Prep

In September 2006 Bellevue Processing purchased Metal Prep Technologies in Detroit. These two plants are extensively equipped with shot peening and shot blasting equipment. The Metal Prep plant specializes in larger parts that are processed on spinner hanger shot blasting equipment. Both plants have a wide variety of wheelabrators, Pangborns, table machines and flow through blasting equipment. Each of these plants have blast rooms for very large parts.



Tumble Blaster

Shot Peening Applications:

For work hardening and part process repeatability.

Shot Blasting Applications:

Removal of rust & scale from Castings - Forging - Electrical Steel - Military Plate.

Table Blasting Applications:

Custom work to prevent distortion or nicks. Partial blasting of mached parts z- Gears, Bushings, Spinner Hanger using custom racking.

Flow Thru Applications:

For large or long parts plate up to 48" x 100"



Spinner Hanger

OTHER SERVICES INCLUDE:

Both plants have PAINT REMOVAL BURN OFF OVENS and the Bellevue plant has a KOLENE PAINT REMOVAL LINE - 900°F LIQUID SALT. Both plants provide: RUST REMOVAL - PARTS WASHING - DEBURRING - DEFLASHING - STRESS RELIEVING - SORTING - INSPECTION AND PACKAGING.

Thermochemical Parts Stripping Service Kolene® Molten Salt

PFG has installed a Kolene® stripping System which utilizes molten salt technology. Kolene® salt baths replace conventional systems such as burn off ovens, solvents & fluidized beds. The Kolene® salt bath process simply converts organic paint into inorganic by-products, carbon dioxide, nitrogen & water. Any inorganic constituents in the original paint slough off the part being stripped where the organic composition has been destroyed.

Types Of Applications

- Parts Stripping • Rack Stripping
- Tool Holding Fixtures
- Fasteners-Strip Off Patching
- Strip Cosmetically Defective Parts
- Strip Under / Over Specified Thickness

Removes Coatings From These Metals

- Steel
- Aluminum
- Castings
- Copper
- Titanium
- Forgings
- Brass
- Bronze
- Stainless Steel

Removes 100% Of Coatings In Minutes

- Varnishes
- Polymers
- Nylon
- Teflon
- Epoxies
- Lacquer
- Card
- Plastisols
- Adhesives
- Polyester
- Vinyls
- Autophoretic
- E-Coat
- Powder Coat
- Fluorinated
- Polymers

Metal Prep Ph: 313-843-2890
Fax: 313-843-8606
5650 W. Jefferson
Detroit, MI 48209

Bellevue Processing Ph: 313-921-1931
Fax: 313-921-1934
5143 Bellevue Ave.
Detroit, MI 48211

"Parts Finishing Group is Your One Stop Solution Shop"

Parts Finishing Group Locations

Quality parts at low prices with fast service.

JML Painting

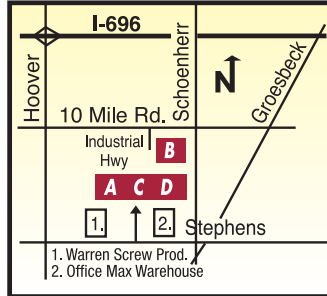
A. JML Painting

13251 Stephens Rd.
Warren, MI 48089
586-755-4053
586-755-6929 Fax

Hi-Tech Coatings

B. Hi-Tech Coatings

24600 Industrial Hwy.
Warren, MI 48089
586-759-3559
586-759-4429 Fax



Automated Deburring

C. Automated Deburring

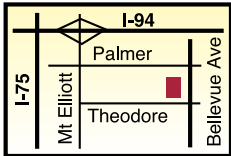
13251 Stephens Rd.
Warren, MI 48089
586-755-4053
586-755-6929 Fax

A1 Parts Washing

D. A1 Parts Washing

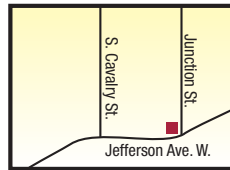
13251 Stephens Rd.
Warren, MI 48089
586-755-4053
586-755-6929 Fax

Bellevue Processing



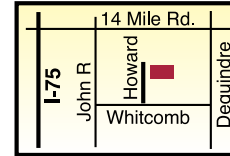
5143 Bellevue Ave.
Detroit, MI 48211
313-921-1931
313-921-1934 Fax

Metal Prep



5650 W. Jefferson
Detroit, MI 48209
313-843-2890
313-843-8606 Fax

Michigan Hone & Drill



32370 Howard St.
Madison Hts., MI 48071
800-567-1736
248-616-0799 Fax

PFG-Queretaro Mexico

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Carretera a Chichimequillas
Km 4.5 El Marques,
Queretaro Mexico 76260
011 5244 2253 0126
011 5244 2253 0127 Fax
USA phone 800-234-5342



ISO9001:2000 Registered • CAGE #5QQ56

800-234-5342 586-759-3559
FAX 586-759-4429

Parts Finishing Group

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