

## COMPANY OVERVIEW

Since 1985, FMG Enterprises has been an industry leader in sales, remanufacturing, and service of OEM and FMG-branded vacuum pumps and packages. FMG is the preferred choice for global customers whose business depends on ultra-reliable, cost-effective high vacuum systems in manufacturing and other applications.

From 5 to 20,000 CFM pumps, FMG sells and services a broad range of new and remanufactured industrial vacuum pumps. We ensure proper installation and customization of pumps to meet customer-specific application requirements. FMG specializes in Dry, Vane, and Cryogenic pumps. We also buy used and excess-inventory pumps. FMG has long-standing relationships with major vacuum pump manufacturers. Plus, FMG is an authorized service center for pump OEMs, including Anest Iwata, Hanbell (FMG-Dry), Ulvac, and Osaka.

FMG introduced the pump industry's first certification program for remanufactured pumps. FMG-Certified™ pumps are warrantied after a full remanufacturing process. Pumps are completely disassembled, all parts and materials cleaned of process and particulates, paint stripped, repairs made, parts replaced as needed (with optimal components meeting or exceeding standards established by the original manufacturer), reassembled, re-painted, rigorously inspected, and extensively endurance tested.

FMG provides in-house service at our 20,000 sq ft facility in Santa Clara, CA. Plus FMG offers best-in-class support solutions including tracking of customer pump history, on-site pump management, pump exchange program, plus customer training. **Special discounts** are available for Government and University customers.

Our highly-experienced equipment engineering professionals consistently deliver the superior quality and reliability required by our customers. **FMG's Number One Priority:** Keep our customers' systems on-line, no matter what.

### BRANDS SUPPORTED

- Agilent
- Leybold Precision
- Alcatel Adixen Pfeiffer
- Osaka
- Anest Iwata
- Seiko Seiki
- Edwards
- Stokes
- Busch
- Sumitomo
- CTI-Cryogenics
- Toyota
- Ebara
- FMG
- Tuthill Kinney
- Hanbell
- Varian
- Welch



### PUMP TYPES

- Cryogenic
- Dry
- Vane
- Scroll
- Turbomolecular
- Diffusion
- Piston
- Screw
- Diaphragm

### PERIPHERAL TYPES

- Blowers
- Cryogenic Compressions
- Helium Leak Detectors
- Oil Filtration Systems
- Pump Motors
- Roots Blowers

# THE VACUUM PUMP REPAIR & REBUILD EXPERTS

SINCE 1985 - LEADER IN INDUSTRIAL VACUUM PUMP SALES AND SERVICE



## FMG ADVANTAGE

FMG factory-trained technicians provide maintenance capabilities that ensure reliable, high-quality vacuum pumps. We partner with our customers to deliver custom-tailored services including installation, maintenance, troubleshooting, repair, and removal of vacuum pumps and peripherals.

FMG employees receive continuous education on hazardous materials, safe handling, and decontamination to ensure compliance with all Local, State and Federal environmental laws.

### PUMP MANAGEMENT

- Installation and start-up of new pumps and support hardware.
- Solutions advice on system configurations and equipment for correct process application setup.
- Tear down and cleaning of exhaust pipelines from pump to abatement systems.
- Safety walk-throughs by FMG On-Site Support technicians.
- Decommission and complete disposal of pumps from tools.
- Shutdown and start-up pump support during customer scheduled shutdown events, including major holidays.

### VACUUM PUMP TRAINING PROGRAM

- Customer training on pump start-up, shutdown, and preventative maintenance.
- Enables the customer's team to better understand the inner workings of vacuum pumps, and enables them to recognize early signs of trouble to help prevent premature failures and costly downtime.

### VANE TO DRY PUMP UPGRADE

- Replacement of Vane pump with a Dry pump eliminates the risk of process contamination due to oil migrating from the Vane pump and reduces costs.
- 1-year cost-of-ownership for a single Vane pump often exceeds the cost to switch to an FMG-Certified Dry pump.

### FMG-CERTIFIED™ WARRANTY

- 1 Year Warranty: Turbomolecular, Cryogenic & Dry Pumps
- 6 Month Warranty: Vane, Scroll & Piston Pumps

*Damage due to process-related failure or improper maintenance not covered by warranty.*

### TURN-AROUND TIME

- Emergency: 24 - 48 hours
- Pump Exchange: 2-3 working days, if pump is in stock
- Rush: 5 working days
- Standard: 15 - 20 working days

### CUSTOM PUMP TRACKING

- Proprietary computerized tracking of every vacuum pump through the entire remanufacturing process.
- Since 1987, historical data on customer pump systems is used to track pump MTBF by system and location, and profile the pump performance.

### REMANUFACTURING HIGHLIGHTS

- Over 100,000 pumps remanufactured.
- Vane & Dry pump shafts or sleeves can be chrome-oxide coated to eliminate leaks.
- FMG-designed hydraulic disassembly tool reduces rotor and claw galling.
- Cleaning system eliminates cross-contamination.
- Turbo pumps stripped and cleaned with specialized equipment and balanced in our in-house clean room.
- Plastic media strips particulates from internal components, without removing metal.

### IN-HOUSE MACHINE & WELDING SHOPS

- Surface regrinding and machining reduces the need to replace expensive parts and expedites turn-around time.

### IN-HOUSE MOTOR & ELECTRICAL SUPPORT

- Rebuild or modification of any electrical control panel.
- Motor bearings replaced on every dry pump and blower.
- Motor end-plates re-sleeved with stainless steel sleeves, when necessary.

### IN-HOUSE PAINT SHOP

- Standard OEM colors used.
- On request, special colors used to indicate corrosive, non-corrosive, Fomblin, etc.
- Low VOC paints ensure that volatile organic compounds are out-gassed in FMG's "Bay Area Air Quality Permitted" spray booth, not in the customer facility.

### TESTING FEATURES

- Run-tested for a minimum of 24 hours.
- Motors load-tested separately after pump disassembly.
- Speed and load-tested to AVS Standards.
- Endurance tested for minimum of 200 cycles per pump.
- Helium-leak checked after assembly into packages.
- Complete systems "bagged" and tested.

## FMG ENTERPRISES, INC

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