



certified vacuum pump and blower repair

# FMG Company Overview

## The Vacuum Pump Repair & Rebuild Experts



### MAJOR BRANDS SERVICED

Alcatel	Kinney Vacuum
BOC Edwards	Leybold Precision Vacuum
Busch	Sargent Welch
Balzers/Pfeiffer	Seiko Seiki
CTI/Helix	Stokes
Ebara	Varian

### TYPES OF EQUIPMENT SERVICED

Dry Pumps	Piston Pumps
Vane Pumps	Oil Filtration Systems
Turbo Pumps	Blowers
Cryo Pumps	Cryo Compressors
Scroll Pumps	Pump Motors
Diffusion Pumps	Industrial Pumps
Liquid Ring Pumps	10 CFM - 20,000 CFM



FMG Enterprises has been servicing and rebuilding vacuum pumps and peripherals since 1985 for customers that depend upon cost-effective, ultra-reliable vacuum systems. FMG is staffed by experienced equipment engineering professionals who continually work to achieve the best results for every customer.

FMG introduced the industry's first certified pump program delivering superior quality and reliability by ensuring that each pump is rebuilt to meet or exceed standards established by their original manufacturers. The FMG Certified™ Pump program reflects the quality delivered to the worlds leading equipment manufacturers who demand superior components, rigorous inspection & testing at every stage of rebuild.

FMG specializes in Turbomolecular and Cryogenic pumps that are rebuilt for customers worldwide. Turbomolecular pumps are rebuilt utilizing specialized cleaning equipment and a testing and balancing system housed within an on-site clean room. FMG rebuilds all other OEM pumps and also buys, sells, trades, and customizes pumps to meet specific application requirements. Special discounts are available for DoD and University customers.

FMG is proud to have long relationships with major vacuum pump manufacturers including being an authorized service center for companies such as Kinney Vacuum, Stokes, and Alcatel. From the smallest vacuum pump to 10,000 CFM pumps, FMG has the capability to offer a broad range of products and services to meet any customer's requirements. FMG's Santa Clara facility has 20,000 square feet of manufacturing space, 10,000 feet of pump inventory plus a 500 square foot clean room.

FMG provides many product support solutions including Advanced Exchange Programs, on-site Pump Management Programs, Training Programs and Preventative Maintenance Programs.

FMG utilizes 22 plus years of experience to engineer a best-of-breed method in choosing the optimal combination of OEM and third-party parts to provide maximum pump performances.

FMG's number one priority is to get the customer back on line as quickly as possible, no matter what it takes.

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### The Vacuum Pump Repair & Rebuild Experts



#### FMG CERTIFIED™ WARRANTY

- 2 Year Warranty on Turbomolecular, Cryogenic & Dry pumps
- 1 Year Warranty on Vane Pumps
- 2 Year warranty includes up to 6 months storage + up to 18 months installed
- 1 Year warranty includes up to 6 months storage + up to 6 months installed
- Warranties do not cover damage due to process, neglect or improper maintenance

#### TURN-AROUND TIME

- Emergency: 24 - 36 Hours
- Rush: 5-7 working days
- Standard: 10-15 working days
- Advanced pump exchange available

#### CUSTOMIZED COMPUTER TRACKING

- FMG's computerized system tracks the progress of each vacuum pump through the complete rebuild process. Historical data is archived and can be utilized by customers to profile the performance of their pumps.

#### TESTING FEATURES

- Pumps are tested as individual modules
- Modules are assembled into packages and helium-leak checked
- Complete systems are "bagged" and tested
- Pumps are connected to a test jig and run tested for a minimum of 24 hrs
- Pumps are speed tested and load tested to AVS Standards

#### REBUILD FEATURES

- Vane & Dry pump shafts or sleeves can be coated to eliminate leaks
- FMG designed hydraulic disassembly tool reduces rotor and claw galling
- Custom vapor degreaser cleaning system eliminates cross contamination
- Turbo pumps are stripped, cleaned & balanced in an in-house clean room

#### IN HOUSE MACHINE SHOP & WELDING SHOP

- FMG's on-site machining & welding capabilities expedite the rebuild process
- Surface regrinding and de-burring help reduce expensive critical parts

#### IN HOUSE MOTOR & ELECTRICAL SUPPORT

- Motor Rewinding & Full electrical repair capabilities
- Rebuild or modification of any electrical control panel
- All pump motors are load tested separately after pump disassembly
- Motor bearings are replaced on every dry pump and blower
- Motor end plates are re-sleeved with stainless steel sleeves when worn

#### IN HOUSE PAINT SHOP

- Pumps are painted in standard OEM colors. Customers can request special colors to indicate corrosive, non-corrosive, Fomblin, etc.
- High VOC paints are utilized to ensure that all volatile organic compounds are out-gassed in FMG's Bay Area Air Quality Permitted Spray Booth and not in the customer's facility.

#### THE FMG ADVANTAGE

FMG will partner with customers to accomplish the installation, troubleshooting, maintenance, repair or removal of vacuum pumps and peripherals. FMG's staff of factory trained technicians provide maintenance capabilities that enable them to deliver high quality vacuum pumps. Our technicians are also backed by a unique in-house training program to provide proficient skills and aptitude in maintenance services. Employees are enrolled in a continuous hazardous materials, safe handling, and decontamination training program to ensure compliance with all Local, State and Federal environmental laws.

#### Preventative Maintenance (PM) Program

- FMG has the ability to perform Preventative, Predictive, and Corrective maintenance on process vacuum pumps and related equipment.
- Interval PM service for 3 month, 6 month and annual PM service to support overall maintenance strategies.
- Verification of the integrity of the vacuum pipeline; troubleshooting from the intake side and exhaust side to pump or abatement system.

#### Pump Management Program

- FMG's Custom Software Group can assist in managing pump inventory and reduce maintenance costs dramatically.
- FMG is equipped with a computerized system to track and schedule preventative maintenance, as well as preserve historical data to monitor the life cycle of your vacuum pump.
- Inventory control monitoring and action call control observation software is available to accommodate each customer's needs. Reports include work orders, action calls, failure categories, transcription logs, budget forecasts, customer activities, etc.
- Installation and start up of new pumps and support hardware.
- Decommission or complete disposal of pumps from tools.
- Tear down and cleansing of exhaust pipelines from pump to abatement systems.
- Solution advice on system configurations and equipment for correct process application setup.
- Safety walk-throughs performed by site Support technicians.

#### Start up / Shutdown Support

- Shutdown / start-up support of pumps during all required shutdown events; including major holidays.
- Removal of pump for repair from the 'doghouse' location or from the customers equipment.

#### Vacuum Pump Training Programs

- Explanation and training on the assembly and preventative maintenance helps your team understand the inner workings of vacuum pumps. You get better acquainted with your systems to recognize early signs of trouble and to prevent premature failures, and costly downtime.

#### Vane to Dry Pump Upgrades

- The cost to maintain a single vane pump in one year can easily cost more than upgrading to an FMG rebuilt Dry Pump. A Vane to Dry pump Upgrade ensures that you eliminate the risk of process contamination due to oil migrating from the Vane pump.

