



certified vacuum pump and blower repair



FMG Certified™ Program

Pumps, Maintenance, Management, Conversions

For engineers, technicians, scientists and purchasing professionals who must have the most reliable vacuum pumps, the FMG Certified™ Program provides the highest quality in rebuild products and services.

Unlike alternatives from other pump rebuilders, the FMG Certified™ Program assures that you'll get products as good as, or better than new. And, it's backed by a superior warranty because FMG always goes the extra mile.

FMG Certified™ Program is a validation process of the technical competencies and expertise needed to plan, deploy, support and service FMG's pumps. The Program is structured with certification and emphasis on precision, reliability, durability and performance. We are confident that each Rebuild Pump that leaves FMG has been thoroughly inspected by our factory certified technicians and backed by our certification process.

Since 1985, FMG has been building, and servicing tens of thousands of pumps for professionals from the smallest to the world's largest users of vacuum process systems. Our commitment is to keep your team focused on productivity and breakthroughs. FMG is the Gold Standard for Rebuild Pumps because FMG pumps work right the first time – every time.

FMG Certified™ Program:

- Procedure of Rebuild: FMG has developed its own internal disassembly, cleaning, reliability, testing, detailing and shipping.
- Technicians: Our technicians are FMG and/or factory trained and certified on each pump type.
- Documentation: Disassembly, evaluation, build sheet, data sheet, final assembly sheet. Test and Quality Assurance sheet, Paint QA and shipping documentation are recorded.
- Pump Tracking: FMG's own internal database monitors incoming rebuilds in every stage of the rebuild process.

Features:

- Up to 300+ point inspection depending on pump type
- Electrical/Module/Software
- Mechanical and Electronic Parameters
- Perform Vacuum Integrity Leak Check Beyond OEM Specs
- 24-36 Hr. Performance Burn-In Reliability Checks
- Final Inspection Check for Quality Assurance

Advantages:

- Foresee potential problem areas before any occurrences may arise
- Extends pump life, positively affects bottom line with reduced numbers of pump rebuilds or purchases
- Maximize overall equipment uptime for production
- Cost savings
- Statement of work performed

FMG DRY PUMP TEST AND QUALITY CONTROL

F.M.G. Enterprises, Inc.
1125 Memorex Drive, Santa Clara, CA 95050
Phone: 408-982-0110 Fax: 408-982-0529

Customer Name: PIYO SAMPLE Attention: Manager
Address I: 1234 STURGEON CT. SUITE 100 Requestor: JOE SMITH
Address II: Department: ENR RESEARCH
City: ARLINGTON TX State: TX P.O. Number: SAMPLE
Zip Code: 76011 Pump Model #: 120580
Phone Number: 817-478-0790 Blower Model: 248500
Blower Serial: 123456

PUMPING SPEED TEST USING 100 LITER VESSEL

| | | |
|------------|-----|-----------|
| Minutes 01 | 300 | Millitorr |
| Minutes 02 | 280 | Millitorr |
| Minutes 03 | 260 | Millitorr |
| Minutes 04 | 240 | Millitorr |
| Minutes 05 | 220 | Millitorr |
| Minutes 06 | 200 | Millitorr |
| Minutes 07 | 180 | Millitorr |
| Minutes 08 | 160 | Millitorr |
| Minutes 09 | 140 | Millitorr |
| Minutes 10 | 120 | Millitorr |

NO-OILS LOAD TEST

| | | | |
|----------------|----------|-----|-----------|
| 2.5 LPM 0 Torr | 175 SCCM | 110 | Millitorr |
| 5 LPM 2.0 Torr | 200 SCCM | 240 | Millitorr |
| 10 LPM 2 Torr | 250 SCCM | 270 | Millitorr |
| 15 LPM 2 Torr | 300 SCCM | 340 | Millitorr |

Base Pressure: 7 Millitorr
Leak Test Results: 0.10%
Leak Test Name: PIYO.H

SAFETY INTERLOCK TEST RESULTS

| | |
|---------------------------|--------|
| NO Flow | Passed |
| Water Flow | Passed |
| Temp Snap Switches | Passed |
| Auxiliary Flow | Passed |
| Thermistor, Motor, Pump | Passed |
| Thermistor, Motor, Blower | Passed |
| Exhaust Pressure | Passed |
| EMO Button Test | Passed |
| EMO Plug Test | Passed |

MONITORED PARAMETERS ALARM TEST

| | |
|---------------------|--------|
| Power, Pump/Motor | Passed |
| Power, Blower/Motor | Passed |
| Shaft Seal Pump | Passed |
| Final Stage Flow | Passed |
| Auxiliary Flow | Passed |
| Exhaust Pressure | Passed |
| Pump Temperature | Passed |
| Motor Temperature | Passed |
| Motor Voltage | 209V |

FINAL QUALITY CONTROL

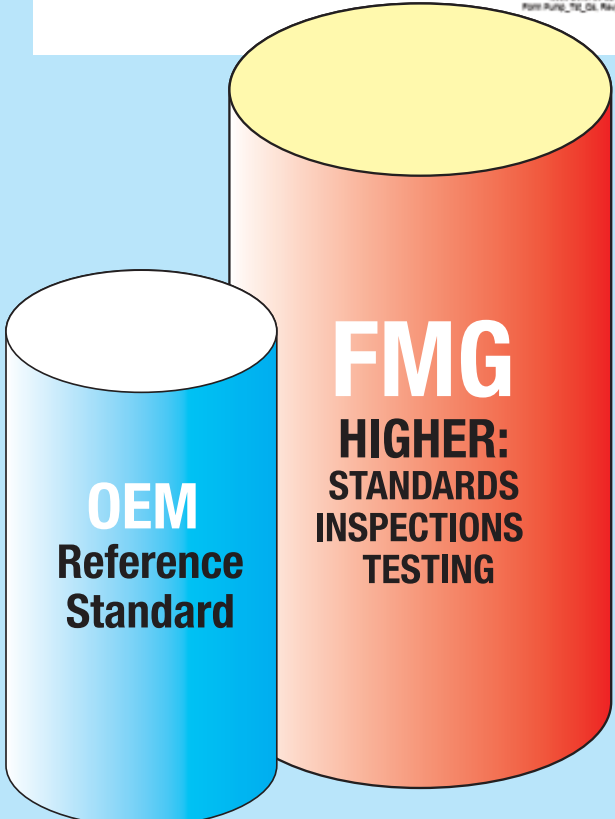
- Accessories Rebuilt (Per PIV Log)
- Instructions Complete
- Labels Attached Clear and Legible
- Serial Number Plate Attached Clear Legible
- Oil Installed
- Oil Levels Confirmed
- Quantity of Paint
- Electrical Cord Strain Relief Inspected
- Overall Appearance
- Shipping Plug Attached

PARTS LIST

- ITEM 1 Motor Rebuild Kit
- ITEM 2 2.5LPM 2.0 Torr
- ITEM 3 5.0LPM 2.0 Torr
- ITEM 4 10.0LPM 2.0 Torr
- ITEM 5 15.0LPM 2.0 Torr
- ITEM 6 3.0LPM 2.0 Torr
- ITEM 7 4.5LPM 2.0 Torr

PLEASE CALL OUR SERVICE DEPARTMENT IF YOU HAVE ANY QUESTIONS REGARDING TEST DATA SPECIFICATIONS

www.fmg.com
Form: Pump_Test_QA_Rev02



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