



**CERTIFIED VACUUM PUMP
SALES AND SERVICE**

DRY PUMP REMANUFACTURING

FMG Certified™ Rebuilt Dry Pumps provide a much more cost-effective solution than buying new pumps. Applications, process, and maintenance engineers in semiconductor Fab, R&D, and product manufacturing depend on FMG for reliable dry vacuum pumps for myriad applications.



Using factory-trained technicians, FMG rebuilds Dry Pumps from virtually all major manufacturers up to “OEM or better” specifications, performance, and reliability. With over 100,000 remanufactured pumps since 1985, FMG is a leader in vacuum pump service. FMG Certified™ Rebuilt Dry Pumps adhere to the most rigorous standards for evaluation, remanufacturing, and testing. Plus, FMG uses the highest quality OEM, equivalent or superior parts. FMG Certified™ means your rebuilt pump comes with an FMG warranty.

Unlike OEMs who are locked into using corporate parts, FMG has choices. We can and do select the best parts to fit your application and to ensure maximum reliability. Unlike other secondary pump rebuilders, FMG replaces everything to like-new or new condition.

KEEPING UP WITH ENERGY-EFFICIENT TECHNOLOGIES

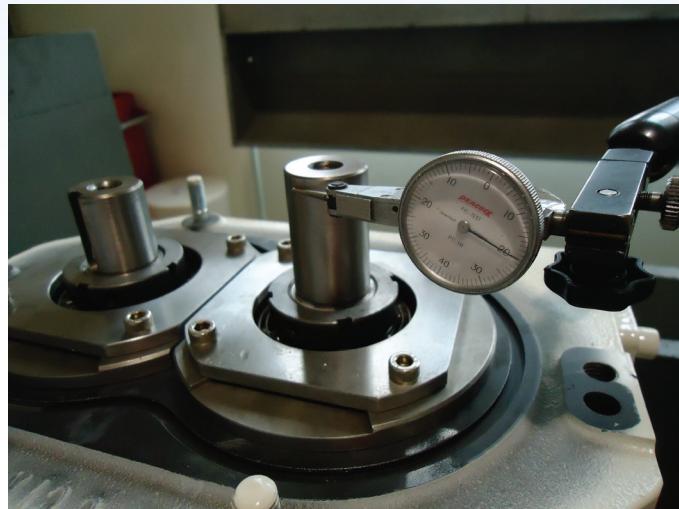
The keys to FMG’s reputation for reliability and quality are our vertical integration, technician training, knowledge of all aspects of Dry Pumps (including software and electronics), and experience in Fab operations. That’s why only FMG, after going through an extensive certification and validation process, has been awarded exclusive authorization for North America by a leading global tool manufacturer to repair and rebuild their newest version of small, energy-efficient, highly-reliable, light-weight and quiet Dry Pumps. This is recognition that FMG goes the extra mile to get the job done right. We set the standard for the pump rebuild industry.



INDUSTRIAL VACUUM PUMP REBUILD EXPERTS SINCE 1985

PROCEDURES

1. **Disassembly**: All FMG Certified™ Rebuilt Dry Pumps undergo a complete teardown, written evaluation and documentation. Prior to disassembly, pumps are photographed to ensure same configuration upon rebuild. Parts are evaluated then reset to original OEM specifications. The pump, frame, flanges, electrical, exhaust, and N2 fittings/lines are disassembled and cleaned. FMG-proprietary hydraulic disassembly tool reduces rotor and claw galling.
2. **Cleaning**: After solids are removed, parts are cleaned with a proprietary solution, dried, blasted with plastic media to prevent metal removal, and aqua-blasted to remove any non-visible contaminants. Cleaning system eliminates cross contamination.
3. **Inspection**: All critical parts are inspected. Parts requiring surface grinding are machined internally. Sleeves and Claws are re-coated. (Teflon coating is an option). Scored or slightly grooved shafts are replaced with hard chrome shafts.
4. **Electrical**: Motors are inspected for bearing condition. All bearings are replaced, along with other parts as needed. Rebuild or modification of electrical control panels and inverters. Motors are repaired upon request. Electronics are checked, latest software uploaded, and clock reset to zero (because the motor is as good as new).
5. **Assembly**: Each pump is reassembled, clearances are measured and documented, and internal parts are lubricated with the proper oil. All pumps are tested to AVS standards. Pump shafts and sleeves may be replaced and can be chrome-oxide coated to eliminate leaks. FMG maintains an In-House Machine and Welding Shop to support our remanufacturing capabilities and to our expedite services.
6. **Paint**: At our “Bay Area Air Quality Permitted” In-House Spray Booth, pumps are painted with low VOC paint to ensure that volatile organic compounds are out-gassed in FMG’s facility, not in the customer’s facility. We use standard OEM colors. On request, special colors used to indicate corrosive, non corrosive, Fomblin, etc.
7. **Testing**: Occurs at various points in the rebuild process. Motors are load-tested separately after pump disassembly. Pumps are run-tested for a minimum of 24 hours, speed and load-tested to AVS Standards, and endurance tested for minimum of 200 cycles per pump. Complete systems “bagged” and tested Helium-leak checks are run after assembly into packages. Finally the package is dust barrier wrapped and palletized for shipping.
8. **Service Report**: This report is produced and digitally saved prior to shipment.



WARRANTY

1 Year for Dry 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



Visit our site

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 **FMG**

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