

Introducing: The Nash Service Centers

Infrastructure and Know-How

The Nash Service Centers have everything needed for repairing, remanufacturing and performance testing liquid ring pumps. We know all of the adjustment dimensions and tolerances and, of course, the assembly specifications for every NASH pump and compressor. **Our services include:**

In-House Services

Inspection and Repair

Dismantling of pumps; inspection of dismantled parts for dimensional accuracy and any damage; replacement of worn parts; mechanical and/or chemical cleaning of the parts; remanufacturing and repair; and welding. The service center provides a detailed report with descriptions and photos of problems found. We also offer on-site inspections.



Original Spare Parts

Seals and bearings are always replaced with new OEM parts.

Repair Parts Kits

Kits containing all of the parts that commonly show signs of wear are available for selected standard pump models. They are prepackaged, immediately available for shipping and offer a less costly alternative to ordering the individual components.

Conversion and Upgrade: Materials and Seals

Improved performance and corrosion resistance due to conversion or upgrade to other materials; replacement of critical components (rotor, side shield or cone) with stainless steel components; packing gland or mechanical seals on demand.

Coatings and Linings

Increasing the service life of cast iron pumps with a stainless steel lining (body, cone, port plate, side shield), polyisoprene lining (body, side shield) or ceramic coating (rotor).

ATEX Repairs

Repairs in accordance with the ATEX guidelines, including proof of materials and testing.

Optional: Performance Testing in our Test Field

Testing of vacuum pumps and compressors in our test field. For all repairs, we guarantee 95% of the suction capacity of a new pump.

Warranty

1 year guarantee on all repairs and spare parts.

On-Site Services

Field Service

We offer the entire range of services for on-site maintenance, inspection and repair. We perform this service on dates that are preferable to you and on pre-arranged downtimes.

Start-Up Service

Supports during commissioning of the system, during start-up and troubleshooting; reducing expensive breakdown times. Checking the installation of the machines and all connections, start-up of the system. Adjusting and measurement of process parameters. Training of your employees.

Maintenance

Complete range of maintenance and repair services, either on-site or at our Service Centers. For all repairs, we guarantee 95% of the suction capacity of a new pump. Regular planned maintenance also helps you with cost management.

Capacity & Performance Testing on Site

Determination of flow rates by using a variety of methods with high results accuracy ($\pm 5\%$). To measure energy consumption, we check all of the operating parameters.

Fiberscope Inspection



Fiberscope inspections check the interior of the pump, rotor, housing and port plate/cone. Through this visual inspection, we can identify damage to the pump and find any foreign objects inside. Contamination,

which can effect pump efficiency and create impermissible tolerances, is identified and eliminated before major damage is done. There is no need to dismantle the pump for this test.



Pump Cleaning

This removes lime scale deposits that affect flow behavior and energy consumption. There is no need to dismantle the pump.

NASH Special Services

Vacuum Audit

Operating a vacuum system is always associated with a considerable consumption of energy. A system not operating at the optimum level of efficiency therefore offers a considerable potential for savings. The Nash solution optimizes your vacuum and compressor systems and offers options for you to realize significant energy savings:

- **Analysis and Evaluation:**
Determination of relevant parameters, measurement of real-time data, visual inspection of the pump(s).
- **Developing Improvements and Solutions:**
A detailed test report will present the data collected. Our proposals for optimizing your system and creating energy savings will be based on this information.
- **Adaptation and System Modification:**
Adaption and modification of your system. This includes consideration of specific requirements, process parameters and structural restrictions.

ECO-FLO Water Saving Technology

Modification of CL, 2BE3 and 2BE4 vacuum pumps to enable reduced water usage and lower cost of operation.

Pump Exchange Program

To reduce downtime, Gardner Denver Nash offers exchange pumps for popular models. The customer receives an exchange pump according to specifications and sends his own pump to our Service Centers. The exchange pump stays with the customer. For this, we will only invoice the costs for repairing the old pump.

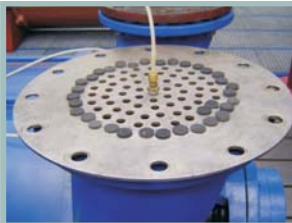
Fixed Price: Customer Support Agreement

Regular, planned service/maintenance will help you with cost management and improve the efficiency of your vacuum pump or compressor.

- **Plant Inspection During Operation:**
Visual inspection of the suction capacity, bearing temperature, shaft speed, energy consumption and condition of the bearings.
- **Inspection During Downtime:**
Fiberscope examination or inspection through service openings; flow rate measurement.

Do you have questions?

Please contact your NASH Service Partner!



Nash Service Center locations in Europe and the Middle East:

Germany

Nash - Zweigniederlassung der Gardner Denver Deutschland GmbH
Katzwanger Str.150
90461 Nuremberg
Germany
Phone +49 911 1454-5256
Email nash.service.eu@gardnerdenver.com

Netherlands

Gardner Denver Nash Benelux
Industrieweg 15
1566 JN Assendelft
Netherlands
Phone +31 6 2036 6286
Email nash.service.nl@gardnerdenver.com

United Kingdom

Gardner Denver Ltd.
Road One, Industrial Estate
Winsford, Cheshire CW7 3PL
United Kingdom
Phone +44 1606 550 405
Email nash.service.uk@gardnerdenver.com

Saudi Arabia

c/o **Abahsain Industrial Engineering Company Ltd.**
Street #140,
Dammam Industrial Area – 2
Dammam, Saudi-Arabien

Gardner Denver Nash has an extensive network of sales offices and representatives all over the world.

Gardner Denver Nash has many ISO 9001 and ISO 14001 certifications.



Order-No.: LRP:B-BR116-A1a-EN
0.5/06-2014 Printed in Germany
©2014 All Rights Reserved; All data subject to change

Nash - Zweigniederlassung der Gardner Denver Deutschland GmbH

Katzwanger Str. 150
90461 Nuremberg, Germany
Phone: +49 911 1454-0
Fax: +49 911 1454-5252
nash.de@gardnerdenver.com
www.GDNash.com