



MAINTENANCE | REPAIR | PARTS & SPARES

CERTIFIED SERVICE

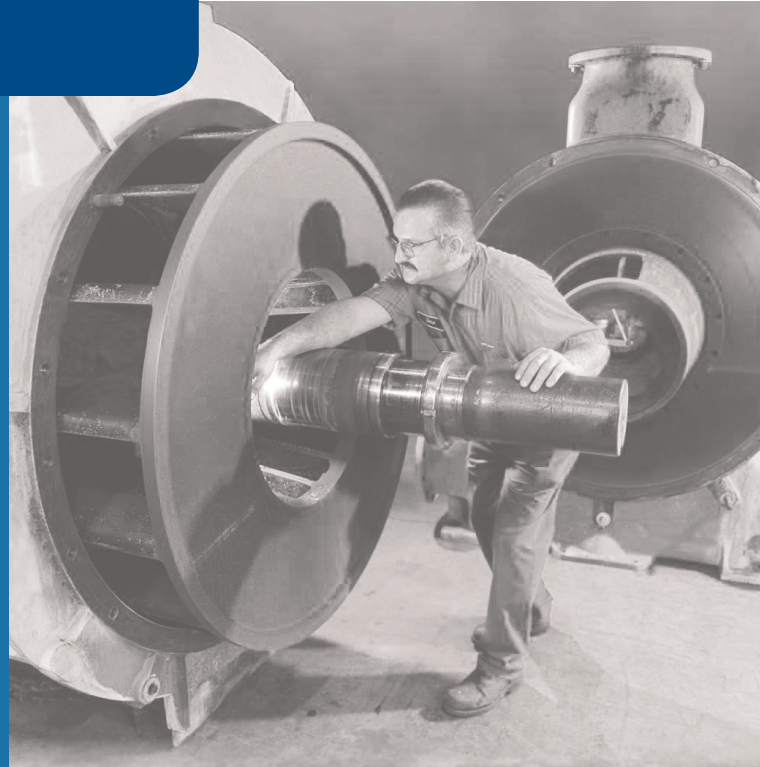


NASH CERTIFIED™ SERVICE

NO SHORTCUTS. ONLY SOLUTIONS.

Count on Nash, the original innovator in liquid ring technology, for the highest quality repairs and service at a competitive price. Our Nash Certified Service Team provides fast, expert repairs, service and preventative maintenance for liquid ring pumps, compressors and systems.

Backed by 110 years of experience in liquid ring technology, our NASH Certified Team of service professionals has your back - we are your trusted partner for maintenance, service and repair.



NASH ENGINEERING

The Original Innovator

Nash's innovative and original patented liquid ring vacuum pump design was the first-of-its-kind when Nash Engineering was founded in 1905, and has been an industry leader ever since. With over 110 years of liquid ring technology, Nash is the proven industry expert in vacuum and compression technology, and our Nash Certified Team has the knowledge and expertise to troubleshoot the underlying issue and develop an innovative solution.

Our expertise is not limited to only the products that we manufacture. Our decades of experience and innovation can be applied to any liquid ring product, including competing brands of liquid ring pumps and compressors. We approach all service in the same manner, providing the same level of service, support and warranty to all Nash Certified repairs.

NASH + GARO

The Gardner Denver Connection



Over the past 110 years, Nash has advanced liquid ring technology through strategic partnerships with proven industry leaders, such as Gardner Denver and Garo. For over a decade Nash and Garo have worked together to provide reliable liquid ring compressors and systems to customers globally. Now, combined under Gardner Denver in the Nash Division we are able to offer an new level of factory service and expertise.

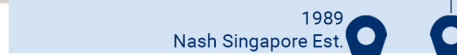
1905
Nash Engineering is founded by Lewis H. Nash



2006
Nash enters a licensee agreement with Garo for sales & service

2014
Gardner Denver acquires Garo, resulting in Gardner Denver Garo

2016
Garo becomes part of the Gardner Denver Nash Division



2002
Nash Germany Est.

Nash granted first U.S. Patent for Liquid Ring Pump and Compressor Design

1910

Ongoing Research & Development Leads to Innovations in Paper, Power, Chemical, Oil & Gas and General Industries

Nash Engineering merges with the elmo Division of Siemens, resulting in nash_elmo

2002

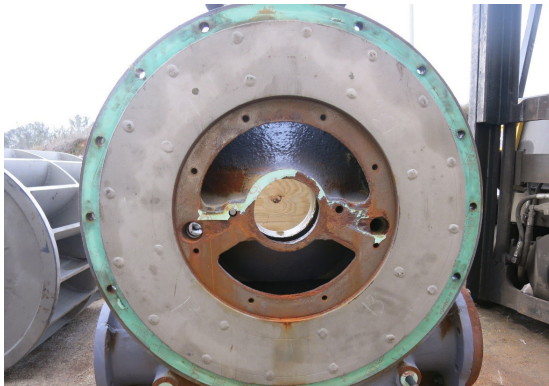
Gardner Denver acquires nash_elmo, resulting in Gardner Denver Nash

2004

NASH CERTIFIED A Difference You Can See

Would you call this a repair? Compare the photos below of a pump repaired by the “other” shop side by side with NASH Certified Repairs and the difference is clear. Some other companies claim to offer service, but take shortcuts, reuse parts, and do not repair the product to OEM specs. Considering the other shop? **WHY RISK IT?**

REPAIRED BY THE “OTHER” SHOP



The ‘Other’ Shop returned the pump with uneven surfaces on the body and cone gasket faces.

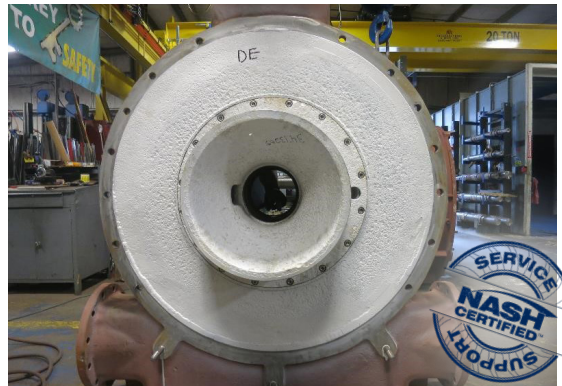


The ‘Other’ Shop returned the pump to the customer with a visibly worn cone surface, and cone tip measurements that do not meet spec.

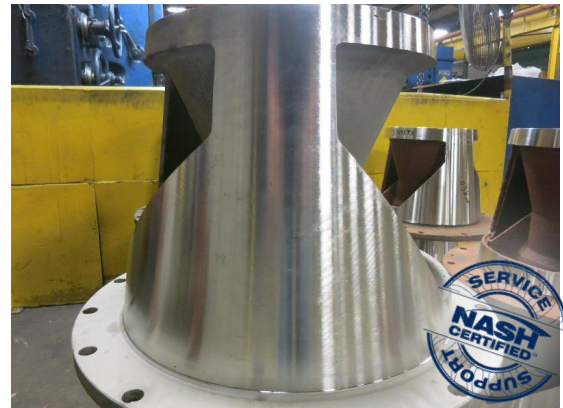


The ‘Other’ Shop did not address visible wearing to the bearing bore. The part is out of spec, and will not perform efficiently.

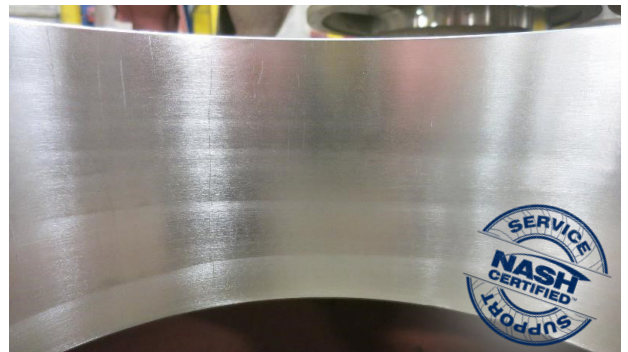
NASH CERTIFIED REPAIR



NASH Certified repairs include machining the surfaces to return to OEM specs and an epoxy coating to prevent erosion damage, increasing the life span of the head.



NASH Certified repairs cones by cladding and machining to OEM specs. Stainless cladding is used to extend the life of the cone.



NASH Certified repairs bearing bores with sleeving and machining that uses a fine smooth machine to insure precise measurement, returning the bore to spec.



RELIABILITY

When properly maintained, a NASH Pump can run for decades.

THE OLDEST RUNNING NASH PUMP

| | |
|------------------------|-----------------------------------|
| MODEL: | NASH #7 |
| YEAR INSTALLED: | 1928 |
| APPLICATION: | PRIMING PUMP FOR DRAINAGE STATION |

The oldest running NASH Pump has been found, and there are two! Located at the Sewerage and Water Board of New Orleans, there are two NASH #7 pumps that have been running reliably for over 88 years! The pumps were installed in Drainage Station #6 when it was built, and serve as priming pumps for the Board's large horizontal drainage pumps. During Hurricane Katrina in 2010, these hard working pumps were submerged. When water levels dropped below the station floor level the NASH pumps were started up and primed the draining pumps, which then ran for several weeks draining the city.



Dwayne Richard, Station 6 Superintendent, and Tom Diehl, Mechanical Engineer, at the Sewerage and Water Board of New Orleans Drainage Station #6 with the oldest running NASH Pump.

NASH PRODUCTS
RATED #1 IN RELIABILITY
AND EFFICIENCY

SOURCE: EY Survey, 2015

NASH Global Footprint

FACTORY TRAINED TECHNICIANS AND FIELD SERVICE ENGINEERS

Our team of NASH Certified Technicians are available to supplement your in-house maintenance operations. At your site they can perform audits, borescope inspections, performance tests, start-ups and other service functions that keep your operation running smoothly. For advanced testing, troubleshooting, commissioning and start-up we have a team of Field Service Engineers, who bring a higher level of

80 NASH Certified Technicians & Field Service Engineers

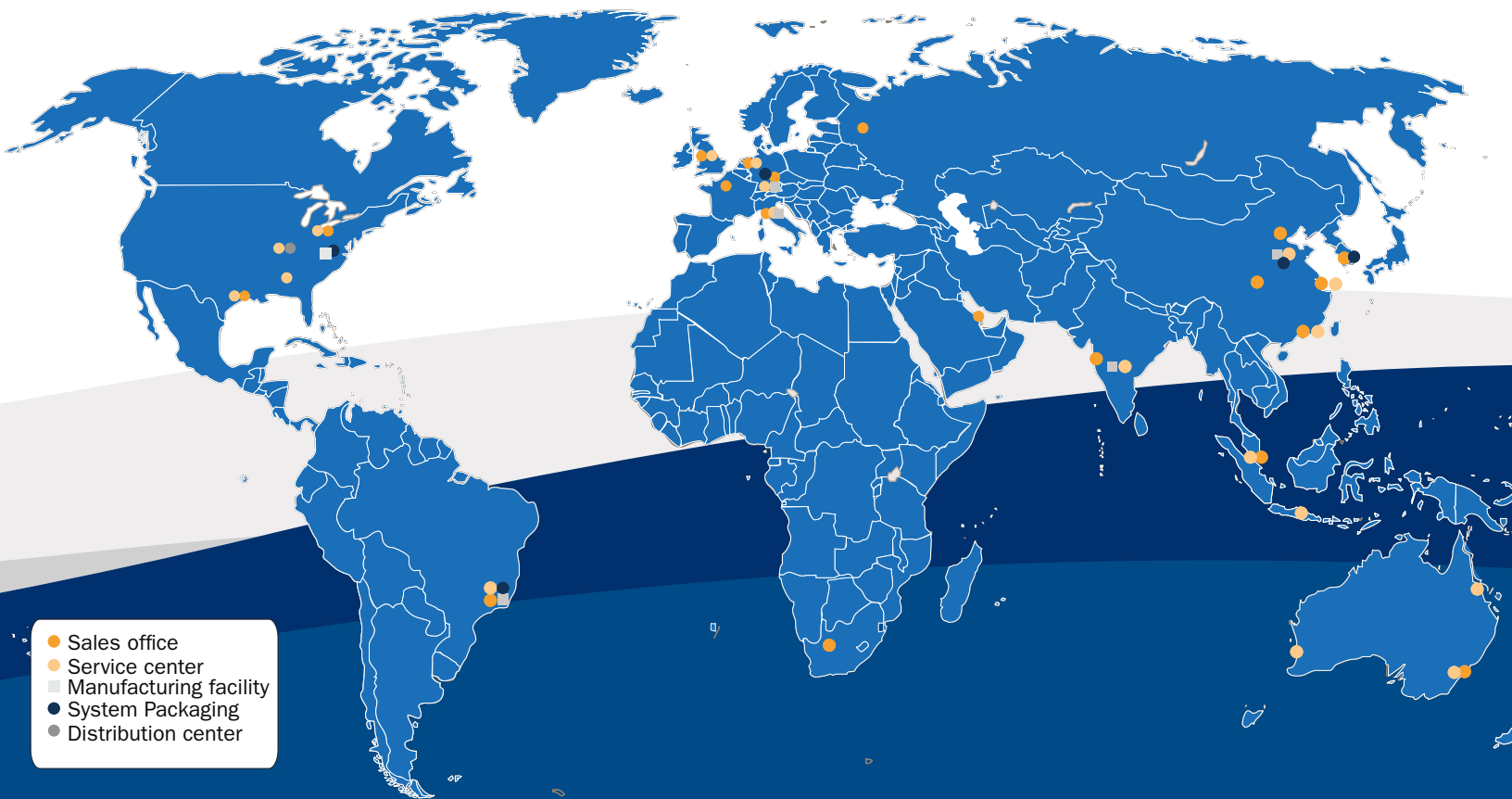
STRATEGICALLY LOCATED FACILITIES

Nash Certified Service centers are strategically located in areas to minimize downtime. Whether you have one location or several, we are positioned to provide the service support when you need it. We also offer national multi-location service agreements.

17 NASH Certified Global Service Center Locations.

ISO CERTIFIED
OHSAS

9001:2008
14001:2015
18001



135,000 Pumps & Compressors Operating on **6** Continents and in **160** Countries.

WE'RE THERE... WHEREVER THERE HAPPENS TO BE.



WHAT WE OFFER

Full Service Maintenance & Repair

INSPECTION & SYSTEM ANALYSIS

BORESCOPE/FIBERSCOPE
SYSTEM ANALYSIS
CAPACITY TESTING

VIBRATION ANALYSIS
PRECISION LASER ALIGNMENT

NASH Certified™ Service includes a complete inspection to determine the root cause of the problem or failure. This enables us to provide you with information as to why the pump failed, and equip you with the information you need to take corrective actions and determine the best type of repair. Pumps sent in for service are disassembled, and photographed. On-site we visually inspect your pumps with a borescope. After the inspection you will receive a thorough report, with photographs and options for the required repairs.

REPAIRS, REMANUFACTURING & UNIT UPGRADES

ANY REPAIR. ANY FACILITY. All NASH Certified Service Centers have the capability to handle:

| | |
|--|-------------------------------------|
| BODY, HEAD & ROTOR SHROUD WEAR RINGS | STEEL SLEEVING OF BEARING BORES |
| BODY, HEAD, ROTOR & CONE EPOXY COATING | BODY, HEAD AND ROTOR REPAIR WELDING |
| BODY & CONE STAINLESS CLADDING | SERVICE & REPAIR OF OTHER BRAND |
| SHAFT METALIZING | |

REMANUFACTURED UNIT As the OEM, we can replace your original NASH pump with an identical, warrantied, remanufactured unit. NASH remanufactured pumps are repaired and rebuilt by NASH Certified™ technicians using a combination of new and reconditioned parts.

EMERGENCY REPAIRS For certain critical models we maintain an inventory of remanufactured pumps available for immediate exchange. You can use the exchange pump to keep your process running while we return your equipment to working order.



FIELD SERVICE

SYSTEM EVALUATION
INSTALLATION & COMMISSIONING
ON SITE SERVICE & REPAIR

BORESCOPE/FIBERSCOPE INSPECTIONS
PREVENTATIVE MAINTENANCE
FIELD UPGRADES

From full system evaluation to installation & commissioning, inspections, maintenance and updates our team of NASH Certified Service technicians are located globally, and available to provide full service and support on-site, at your facility.

EVERY NASH CERTIFIED™ REPAIR INCLUDES :

- Disassembly Report
- OEM Quality Service & Parts
- Competitive Pricing
- New bearings, packing, and gaskets
- Guaranteed pump performance
- NASH Certified Warranty on all Parts & Workmanship





PRODUCTS & SYSTEMS

NASH™ LIQUID RING VACUUM PUMPS & COMPRESSORS
NASH™ STEAM JET EJECTORS
GARO™ LIQUID RING COMPRESSORS

ETO (ENGINEERED-TO-ORDER) SYSTEMS
AFTERMARKET UPGRADES
NASH CERTIFIED™ PARTS & UPGRADES

UNIT UPGRADES AND EFFICIENCY IMPROVEMENTS

Our commitment to research & development ensure you are always receiving the latest upgrades to equipment technology and energy savings, and are only available from Nash. Some available material and energy saving upgrades include:

PATENTED UPGRADES, AVAILABLE ONLY FROM NASH™
NASH ECO-FLO™ WATER SAVING TECHNOLOGY
NASH ENDURA-SEAL™
NASH 2BE INLET MANIFOLD
NASH CL TO NASH VECTRA CONVERSION KITS
NASH TC ANTICAVITATION UPGRADE

MATERIAL UPGRADES
POLYISOPRENE LINING
STAINLESS STEEL CLADDING
STAINLESS ROTORS/CONES



REPLACEMENT PARTS

QUALITY TESTED - OEM PARTS IN STOCK

Whether it is for an emergency or for backup, we have a full supply of NASH Certified parts available for quick shipment. Each part is designed and built to Nash's legendary standards, and is guaranteed to perform as well as the original with a 2 year warranty.



UX - UNIT EXCHANGE

Through our Nash Certified UX Program you can trade in your existing core and receive a new or refurbished unit for a fraction of the price.



PUMP UNIVERSITY

Through Pump University, NASH Certified™ Service offers customized maintenance, operator and product training. All sessions are lead by an experienced NASH Certified Technician or Engineer, and can be held on-site at your facility, off-site at the location of your choice, or at any Nash facility.

LUNCH & LEARN SEMINARS
HALF AND FULL DAY MAINTENANCE SEMINARS
WEBINAR PRESENTATIONS

CUSTOMER SUPPORT AGREEMENTS

FLEXIBLE PLANS FOR PREVENTATIVE MAINTENANCE

NASH Certified Service offers customer support agreements with a set plan for service, maintenance and analysis. These plans supply maximum cost control and minimum downtime with preferred scheduling, priority shipments and planned preventative maintenance.



Our flexible plans include:

OPERATION & SYSTEM AUDITS - PERFORMED BY A NASH CERTIFIED TECHNICIAN ON SITE
SYSTEM EVALUATION - PERFORMED BY A NASH CERTIFIED FIELD SERVICE ENGINEER
INTERNAL ANALYSIS - BORESCOPE/FIBERSCOPE INSPECTION
PERFORMANCE TESTING
PREFERRED NASH CERTIFIED TECHNICIAN SCHEDULING
PRIORITY SHIPMENT ON PARTS
TRAINING AND MAINTENANCE SEMINARS

Gardner Denver Nash Products & Systems



NASH® Liquid Ring Vacuum Pumps & Systems

The reliable and durable solution for demanding process applications. Through ongoing commitment to innovation, Nash continues to introduce liquid ring vacuum pumps that meet the rigors of the most demanding applications while improving efficiency and lowering total cost of ownership.



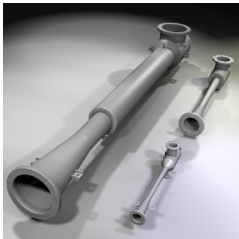
NASH and GARO® Liquid Ring Compressors & Systems

The rugged, reliable solution for demanding process applications. Designed to handle toxic, explosive and corrosive gases, and backed by a reliable history of performance under the most demanding conditions.



DRY-PRO® Dry Vacuum Pumps & Systems

Designed to meet your specific process needs, NASH engineered systems are ready for operation, easy to integrate into process automation, help minimize installation & operating costs, and meet the rigors of the most demanding applications.



ENER-JET™ Ejectors & Systems

Whether on their own, or as part of a NASH ENER-JET Hybrid Vacuum System, NASH steam jet ejectors are engineered for optimum efficiency, reducing steam consumption, while maintaining their ability to handle large volumes at very high vacuum levels.

NASH


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Gardner Denver

 Please recycle after use.