

**NASH**<sup>®</sup>

An Ingersoll Rand Business

**A GLOBAL LEADER  
IN ENGINEERED  
VACUUM/COMPRESSOR  
SYSTEMS**

全球领先的工业真空/压缩领域工程化专家



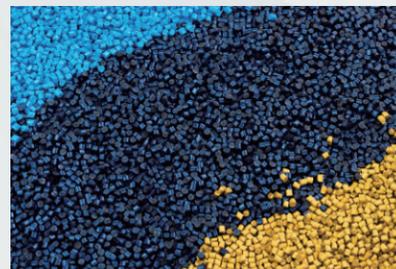
倍缔纳士机械有限公司  
Gardner Denver Nash Machinery Ltd.

# 英格索兰 信赖我们， 让您的生活更美好！

INGERSOLL RAND  
LEAN ON US TO HELP YOU  
MAKE LIFE BETTER.

我们的产品可能就在您身边，  
支持着您的生活和工作，  
帮助您提高效益，实现节能降碳，  
创造更美好生活。

Our products might be right by your side,  
Supporting your daily life and work,  
Helping you boost efficiency,  
Achieve energy conservation and carbon reduction,  
And make life better.



## At-A-Glance

EXPERIENCE  
+ HISTORY

300+  
YEARS

80+  
BRANDS

IR IRCO.COM  
NYSE TICKER

50+  
COUNTRIES

MORE THAN  
GLOBAL EMPLOYEES  
18,000

GLOBAL CUSTOMERS  
100,000



英格索兰是一家全球领先的关键业务流程创建和工业解决方案的供应商，可提供涵盖包括空气、液体、能源和医疗技术等诸多领域的产品解决方案。自2020年初Gardner Denver（佶缔）与英格索兰的工业技术部门合并，两家公司共拥有超过300年在卓越运营、创新与质量方面的经验，在极其复杂和严苛的工况下，亦能提供关键和创新的产品与服务，确保优越的性能。

### 压力与真空解决方案事业部

英格索兰压力与真空解决方案业务，从事专注按订单设计（ETO）的品牌和产品，包括Nash、Garco、Hoffman & Lamson、Runtech和定制化工程设计产品（CEP）。

Ingersoll Rand is a global market leader with a broad range of innovative and mission-critical air, fluid, energy and medical technologies, providing services and solutions to increase industrial productivity and efficiency. Since merging with Gardner Denver in early 2020, we have more than 300 years of combined experience and innovative expertise.

### Pressure and Vacuum Solutions

Pressure and Vacuum Solutions business unit that includes brands and offerings with a significant Engineered-to-Order (ETO) focus, including Nash, Garco, Hoffman & Lamson, Runtech and Gardner Denver Custom Engineered Products (CEP).

## 英格索兰 环境与安全目标

2030-2050



关于我们环境与安全目标的更多详情，请访问网站：[www.ircocom/en-us/company/sustainability](http://www.ircocom/en-us/company/sustainability)

# 倍缔纳士 全球生产基地

## NASH GLOBAL PRODUCTION



作为英格索兰压力和真空解决方案事业部的一部分，倍缔纳士将为您提供液环真空泵、压缩机、风机、螺杆真空泵、油式旋片泵、爪泵等跨品牌产品的一站式工程化解决方案和服务。

全球每个NASH的生产基地均可共享公司总部在全球不同市场采集到的信息资源和技术研发成果，使得在全球各地生产的产品都能与世界同步。这种全球资源和本地优势的整合，保证了我们一流的产品品质。

中国 China, 山东淄博 Zibo  
产品 Products: 2AV, 2BV, NEV, 2BE1, SX, SH75, NDC, MVS, SQ, 2BE4/5, 2BQ, TC 5-11, AT, XL, CL200-3000, HP, AB, VWN, P2620, Hoff man blowers, ROOTS, Runtech, Grao

Nash  
美国 USA, Bentleyville  
产品 Products: SC9-11, AD203/303, AT

Nash  
巴西 Brazil, Campinas  
产品 Products: Vectra, GL/XL, SC, TC/TCM, 904, A/MHF, A/MHC, L/H, AL623&C, MD570, CL 4000-14000

Nash  
美国 USA, Peachtree City  
产品 Products: Hoff man and Lamson centrifugal blowers

Nash  
德国 Germany, Nurnberg.  
产品 Products: P2620, 904, HP, 2BG, 2BK

As part of the Ingersoll Rand Pressure & Vacuum Solution (PVS), Nash will continue to offer the full suite of liquid ring vacuum pumps, and compressors, centrifugal blowers, dry pumps and fully engineered systems and service.

Nash puts great emphasis on a steady exchange of information among all locations. All knowledge acquired

in different markets all over the world is shared within our organization. With this knowledge, our local production facility has the expertise and competence for engineering vacuum pumps and compressors in China. This combination of global knowledge and local competence ensure our products' quality.





# 倍缔纳士 中国公司 GARDNER DENVER NASH CHINA

## 与世界同步的中国生产基地

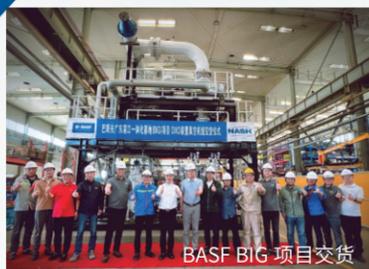
倍缔纳士机械有限公司前身是西门子真空泵压缩机有限公司，为德国西门子公司于1996年2月在中国投资建立。2002年，elmo真空技术公司(原西门子公司A&D/PU部)与美国纳氏公司全球业务整合，成为nash\_elmo(纳西姆)工业公司，2002年10月，西门子真空泵压缩机有限公司也正式更名为纳西姆工业(中国)有限公司。

2004年9月，nash\_elmo(纳西姆)工业公司整体加入成立于1859年的美国Gardner Denver (倍缔)集团，组成Nash产品部---倍缔工程产品集团的核心业务部门。

2006年11月，纳西姆工业(中国)有

限公司正式更名为倍缔纳士机械有限公司，为倍缔集团在中国的全资子公司。

作为英格索兰旗下工业技术与服务集团压力与真空解决方案事业部的核心成员，倍缔纳士依托英格索兰全球资源，已成为亚太地区的生产基地与研发中心之一。深耕中国30年来，聚焦工业、能源、环境、医疗、通用等多元行业，提供从核心设备到系统集成的全链条解决方案。旗下汇聚 NASH、Garo、Hoffman、Lamson、Runtech 等众多泵、压缩机及风机核心品牌，以百年技术传承与创新研发，满足不同场景的多样化需求。



BASF BIG 项目交货



Making Life Better  
第七届进博会新品发布



IV 智能化机组下线仪式

## Production Competence in China

Gardner Denver Nash Machinery Ltd. (GDNC) was founded in February 1996 as Siemens Vacuum Pump & Compressor Co., Ltd. (SVPC), a foreign enterprise invested by Siemens in China. nash\_elmo resulted from the 2002 merger of The Nash Engineering Company, USA, and elmo vacuum technology GmbH, Germany, formerly a Siemens subsidiary. SVPC changed its name to nash\_elmo Industries China Ltd. in October 2002.

In September 2004, nash\_elmo Industries acquired by Gardner Denver founded in 1859 and became Nash Division of Gardner Denver, which is one of powerful divisions of the Engineered Products Group.

In November 2006, nash\_elmo Industries China Ltd. officially renamed to Gardner Denver Nash Machinery Ltd. (GDNC).

As a core member of the Pressure & Vacuum Solutions Division under Ingersoll Rand's Industrial Technologies and Services, Nash leverages Ingersoll Rand's global resources to stand as one of the leading production bases and R&D centers in the Asia-Pacific region. With 30 years of dedicated presence in China, it focuses on diverse industries including industrial, energy, environmental, medical, and general sectors, offering full-chain solutions ranging from core equipment to system integration. Its portfolio encompasses renowned core brands in pumps, compressors, and blowers such as NASH, Garo, Hoffman, Lamson, and Runtech, backed by a century of technical heritage and innovative R&D to meet the diverse needs of different scenarios.



英格索兰集团 CEO 访问博山



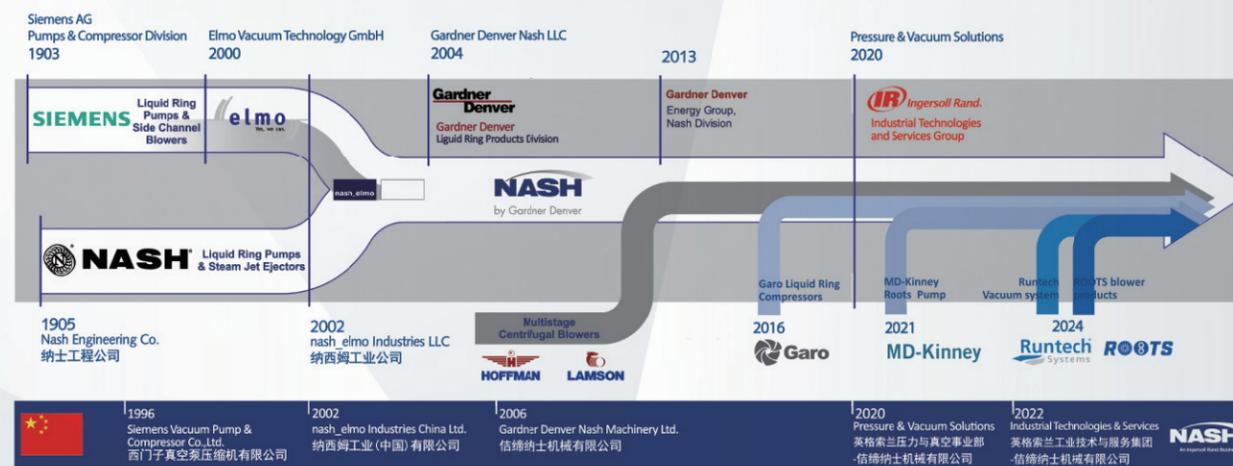
淄博市委书记马晓磊视察爪泵生产线



淄博市副市长胡晓鸿视察 Runtech 生产线

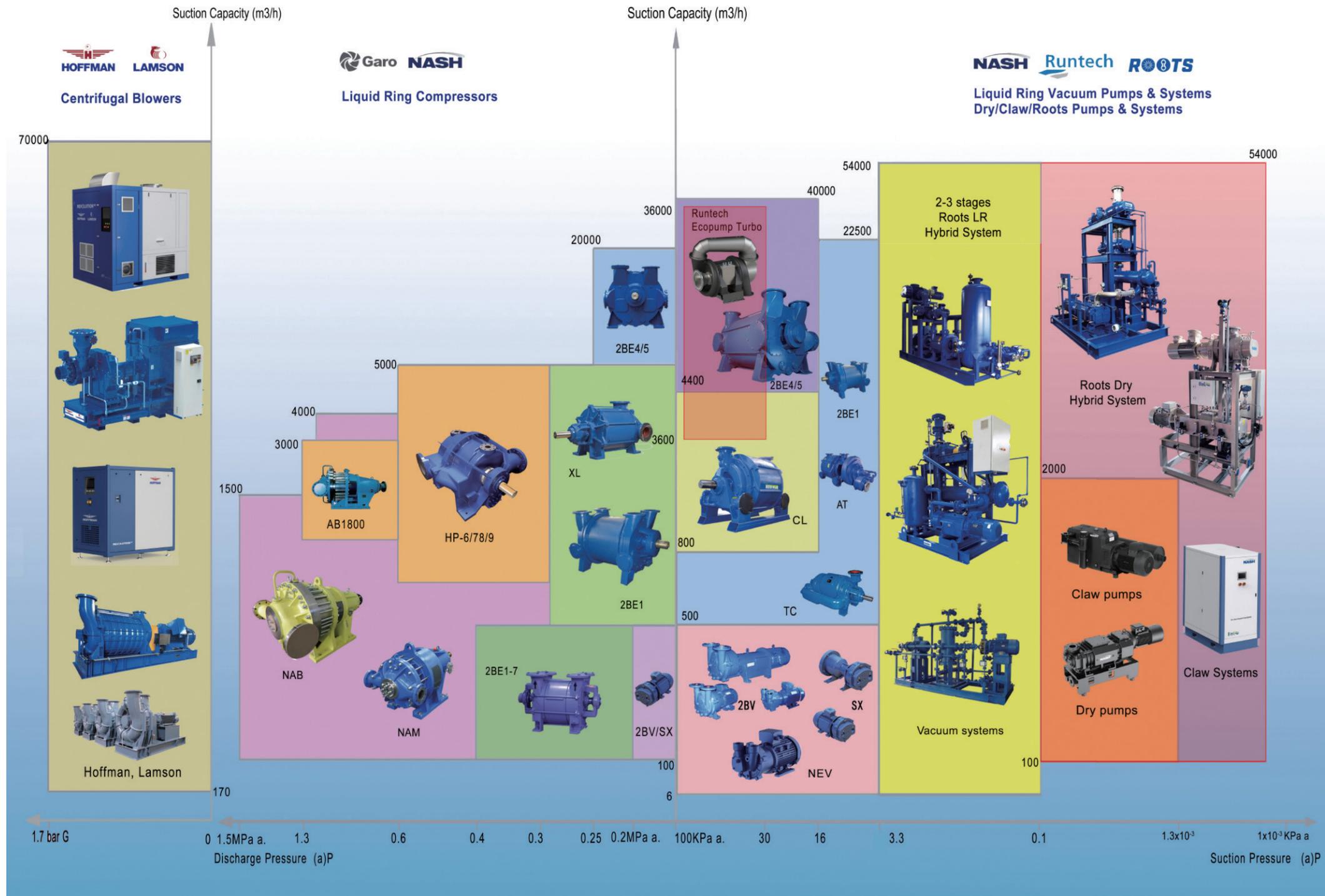


BASF 亚太采购副总裁到访 NASH



# 宽广的产品线

## WIDE PRODUCT LINE



NASH 是液环泵原理的发明者。今天，NASH 基于成熟真空技术打造的工程化产品解决方案。以多元化产品矩阵和全产业链覆盖的优势，可以为化工/石化、电力、造纸、矿山、环保、食品、污水处理等各个行业客户提供一站式解决方案。

NASH is the inventor of the liquid ring pump principle. Today, NASH offers engineered product solutions based on its mature vacuum technology. Leveraging the advantages of a diversified product portfolio and full industrial chain coverage, it can provide one-stop solutions for customers in various industries such as chemical/petrochemical, power, papermaking, mining, environmental protection, food, and sewage treatment.

# 高品质中国造

## TOP QUALITY, MADE IN CHINA

### 湿式产品组合

#### Wet Product Portfolio

##### •液环真空泵

NASH 优质可靠的液环真空泵具有所有苛刻应用所需的功能和性能。能力范围为20至23,000 cfm(34 至40,000m<sup>3</sup>/hr)可抽真空至29+"HgV (30mbar abs)。

##### •液环压缩机

NASH 优质可靠的液环压缩机具有所有苛刻应用所需的功能和性能，其压缩水平超过200 psig (15 bar abs)。也可提供低压压缩机，规格范围为30 psig (3 bar abs) 和 20,000 cfm (34,000 m<sup>3</sup>/hr)。

##### •NASH工程化系统

NASH 具有设计和制造满足您特定工艺要求的真空和压缩空气系统的专业知识。这些系统可即时运行，易于整合进流程自动化，有助于降低安装和运行成本，设计可满足最苛刻应用的要求。

##### •经典NASH泵

NASH可提供经典系列车间用液环真空泵，包括著名的CL、904、SC 和 2BE1 系列。这些产品多年来一直为您提供可靠的服务。您无须更换整个系统，GD Nash可为您提供来自原始制造商的真正的更换。

##### •Liquid Ring Vacuum Pumps

NASH high quality and reliable liquid ring vacuum pumps have the features and performance necessary for all demanding applications. Capacity ranges from 20 to 23,000 cfm (34 to 40,000 m<sup>3</sup>/hr). Vacuum levels to 29+" HgV (30 mbar abs).

##### •Liquid Ring Compressors

NASH rugged and reliable liquid ring compressors have the features and performance necessary for all demanding applications, with compression greater than 200 psig (15 bar abs). Low pressure compressors are also available to 30 psig (3 bar abs) and 20,000 cfm (34,000 m<sup>3</sup>/hr).

##### •Engineered Systems

NASH has the expertise to design and manufacture vacuum and compressed gas systems to meet your specific process needs. These systems are ready for operation, easy to integrate into process automation, help minimize installation & operating costs, and are designed to meet the most demanding applications.

##### •Classic NASH Pumps

NASH continues to provide a number of models from our "classic" work-horse liquid ring vacuum pump lines, including the well known CL, 904, SC, and 2BE1 lines, the same vacuum pumps you have depended on for years. No need to replace your whole system, Gardner Denver Nash is here to offer you a genuine replacement from the original manufacturer.

### 干式产品组合

#### Dry Product Portfolio

##### •NASH干式螺杆真空泵和系统

NASH干式真空泵的极限真空可以达到0.05mbar abs. 可以在大气压和极限真空任何压力下工作，气量范围从80m<sup>3</sup>/h可以到很大，因为干泵配置不同气量的罗茨增压泵提高气量和真空度。

##### •NASH VWN罗茨增压泵和系统

NASH VWN罗茨增压泵的吸气量范围536 - 12400m<sup>3</sup>/h，最大允许压差60mbar、最大允许温升170°C，采用5点机械密封+气障的密封形式，壳体为灰铸铁、转子为球墨铸铁材质。

##### •ROOTS HV罗茨增压泵和系统

ROOTS HV罗茨增压泵的吸气量范围6,587 - 54,230m<sup>3</sup>/h，最大压缩比可达20，密封形式为唇形密封+气障，壳体采用灰铸铁、转子采用球墨铸铁材质。

##### •NASH爪式真空泵和系统

NASH爪式真空泵的吸气量范围62 - 1140m<sup>3</sup>/h，真空度可达100 mbar abs.，采用唇封密封形式，壳体为灰铸铁、转子为球墨铸铁材质。

##### •Hoffman/ Lamson 多级离心风机

Hoffman/ Lamson多级离心风机可提供90 至41,000 cfm (150—70,000m<sup>3</sup>/h)的气流，提供高达22 psig (1.52 bar)的压力和抽真空至17.6" Hg (596 mbar)。每台设备均为客户定制，适合具体应用。

##### •Hoffman磁悬浮鼓风机

Hoffman磁悬浮鼓风机的气量范围1,000 - 23,200 m<sup>3</sup>/h，排气压力可达1.3bar g，采用迷宫密封形式，材质选用锻造铝合金与钛合金。

##### •Hoffman空气悬浮鼓风机

Hoffman空气悬浮鼓风机的吸气量范围960 - 19,800m<sup>3</sup>/h，排气压力为1.3bar g，密封形式为迷宫密封，材质采用锻造铝合金和钛合金。

##### •Hoffman单级高速鼓风机

Hoffman单级高速鼓风机的吸气量范围2,400 - 66,000m<sup>3</sup>/h，排气压力可达2.5bar g，采用迷宫密封形式，材质涵盖铸铁、锻造铝合金及钛合金。

##### •Runtech透平真空泵

Runtech透平真空泵的吸气量范围5,400 - 72,000m<sup>3</sup>/h，真空度可达300 mbar abs.，密封形式为迷宫密封或机械密封，材质选用铸铁、钛合金或复合材料。

##### •Dry Screw Vacuum Pumps & Systems

The ultimate vacuum of NASH dry screw vacuum pumps can reach 0.05 mbarabs. They are capable of operating at any pressure between atmospheric pressure and ultimate vacuum, with a flow rate ranging from 80 m<sup>3</sup>/h to a much higher level. This is because dry pumps can be configured with Roots boosters of different flow rates to enhance both flow capacity and vacuum level.

##### •VWN Roots Booster Pumps and Systems

The suction capacity range of NASH VWN Roots Booster Pumps is 536 - 12,400 m<sup>3</sup>/h, with a maximum allowable pressure difference of 60 mbar and a maximum allowable temperature rise of 170°C. They adopt a sealing structure of 5-point mechanical seal + gas barrier, with the casing made of gray cast iron and the rotor made of ductile iron.

##### •HV Roots Booster Pumps and Systems

The suction capacity range of ROOTS HV Roots Booster Pumps is 6,587 - 54,230 m<sup>3</sup>/h, and the maximum compression ratio can reach 20. The sealing form is lip seal + gas barrier, the casing is made of gray cast iron, and the rotor is made of ductile iron.

##### •Claw Vacuum Pumps and Systems

The suction capacity range of NASH Claw Vacuum Pumps is 62-1,140 m<sup>3</sup>/h, and the vacuum degree can reach 100 mbar abs. They use a lip seal structure, with the casing made of gray cast iron and the rotor made of ductile iron.

##### •Hoffman/ Lamson Centrifugal Blowers / Exhausters

Hoffman/Lamson centrifugal blowers /exhausters offer airflow ranges from 90 to 40,000 cfm (150-70,000m<sup>3</sup>/h), pressures to 22 psig (1.52 bar) and vacuum to 17.6" Hg (596 mbar). Each unit is custom-engineered for a specific application.

##### •Hoffman Magnetic Levitation Blowers

The air flow range of Hoffman Magnetic Levitation Blowers is 1,000 - 23,200 m<sup>3</sup>/h, with a discharge pressure up to 1.3 bar g. They adopt a labyrinth seal design and are made of forged aluminum alloy and titanium alloy.

##### •Hoffman Air Levitation Blowers

The suction capacity range of Hoffman Air Levitation Blowers is 960 -19,800m<sup>3</sup>/h, and the discharge pressure is 1.3 bar g. They feature a labyrinth seal and are constructed from forged aluminum alloy and titanium alloy.

##### •Hoffman Single-Stage High-Speed Blowers

The suction capacity range of Hoffman Single-Stage High-Speed Blowers is 2,400 - 66,000 m<sup>3</sup>/h, with a discharge pressure up to 2.5 bar g. They use a labyrinth seal and their materials include cast iron, forged aluminum alloy, and titanium alloy.

##### •Runtech Turbo Vacuum Pumps

The suction capacity range of Runtech Turbo Vacuum Pumps is 5,400 - 72,000 m<sup>3</sup>/h, and the vacuum degree can reach 300 mbar abs. The seal type is either labyrinth seal or mechanical seal, and the materials used are cast iron, titanium alloy, or composite materials.



# 广泛的 工业应用

## WIDE APPLICATIONS

作为真空/压缩领域的全球供应商，NASH具有革新性的真空/压缩系统解决方案渗透在各个工业领域的每一个角落，在环境危险、运行条件苛刻的应用中更能体现产品的高品质和卓越性能。针对各个工业领域中的不同应用需求，NASH在每款设计上都作了充分的考虑，为石化/化工、电力、造纸、环保、煤炭及通用行业等各个领域度身定制创新性的系统解决方案，帮助客户实现利益最大化的愿望。

在所有的应用中，NASH真空/压缩系统都具有可靠性好、效率高、维修率低和使用寿命长等优点，确保整个生产过程的低成本成功运行，而且减少了环境污染。目前，NASH真空/压缩系统在各个行业中成千上万的装机业绩已遍布全球。

我们致力于为您提供服务，可使您的流程更快捷、更安全和更具成本效益，让您没有后顾之忧！

As the leading supplier of liquid ring pumps and compressors, Nash provides innovative vacuum/compressor solutions applied for all industries. The high quality and professional

performance of NASH products are applied specially to work well in all dangerous and rigorous conditions. It gives the possibilities to innovate in Process, Power, Petrochemical, Pulp & Paper, Environmental Protection, Coal Mining, and many other industries. The Hoffman and Lamson blowers are known worldwide for their quality performance in the Wastewater Treatment, Solid Waste Management and Power industries.

In all applications, the reliability, high efficiency, low maintenance and durability of NASH vacuum and compressor systems and Hoffman and Lamson blowers contribute to the success and profitability of the whole production process. They also reduce environmental pollution.

We are committed to serving you and will meet the challenge of making your processes faster, safer and more cost efficient.

### Chemical Process Industry

- > Evaporation Distillation
- > Vacuum Filtration
- > Gas Compression
- > Monomer
- > Solvent Recovery
- > Drying
- > Vapor Recovery
- > Deodorizing

### Power Industry

- > Condenser Exhausters
- > Water Box Priming Turbine
- > Turbine Gland Exhausting
- > Sludge De-watering
- > Fly Ash Handling
- > Flue Gas Desulphurization

### Paper Industry

- > Low Vacuum Fans
- > Vacuum Dewatering
- > Alkali Recovery

### General Industry Process

- > Food Processing

### 环保工业

- > 污水处理
- > 沼气压缩机
- > 熔剂回收
- > 空气净化
- > 烟气脱硫
- > 流化床-氧化风机
- > 助燃鼓风机
- > 气体回收
- > 液化天然气汽化
- > 硫磺回收
- > 垃圾掩埋气体



- > Sugar Processing
- > Coal Mining
- > Carbon Black
- > Vacuum Smelting
- > Vacuum Forming
- > Vacuum Conveying
- > Vacuum Holding
- > Vacuum Molding

- > Combustion Air Blowers
- > Gas Recovery
- > LNG Vaporizers
- > Sulfur Recovery
- > Landfill Gas

### Environment Protection Industry

- > Waste Water Treatment
- > Biogas
- > Flux Recovery
- > Air Scouring
- > FGD – Forced Oxidation
- > Fluidized Bed



### 造纸工业

- > 低真空风机
- > 真空脱水
- > 碱回收



### 通用工业

- > 食品工业
- > 制糖工业
- > 采矿/瓦斯抽放
- > 炭黑
- > 真空成型
- > 真空输送
- > 真空挟持
- > 真空造型
- > 真空精炼



### 石化/化学工业

- > 真空蒸馏
- > 减压蒸馏
- > 真空过滤
- > 气体压缩
- > 单体回收
- > 溶剂回收
- > 真空干燥
- > 蒸气回收
- > 真空除臭



### 电力工业

- > 凝汽器抽真空
- > 水箱引水
- > 汽机轴密封抽气
- > 污泥脱水
- > 粉煤灰输送
- > 烟气脱硫



# NASH 整体系统 解决方案 TOTAL SYSTEMS SOLUTIONS

NASH拥有广泛的产品和工程系统，不论是一般通用行业的标准机组，还是电力行业的专用工程系统，或者是化工行业的更复杂的复合工程化系统，没有人比NASH更专业，经验更丰富。依托在各个行业成功的应用经验，NASH对整体系统解决方案不断进行优化。可能一个真空系统的解决方案有多种，但NASH的工程师总是利用他们的专业知识为您找到最佳的选择方案。与客户一起探讨各种增值的产品回收利

用，考虑象环境因素等不需要附带处理的流程，想办法节省电力、水和热能。我们评估系统的安排、计划的维护和使用寿命。分析初期投入成本和经营成本之比，使我们的客户可以根据这两个不同类型的支出制定合适的财务目标。总之，我们所做的是提供整体的工程系统设计方案来解决客户的问题。凭借NASH百余年的经验，我们总能满足并超越您的应用需求。

NASH has a wide array of Products/systems that it offers. Whether it's a standard pre-engineered package for general industry, an application specific package for the power industry, or a complete engineered to order hybrid system for the chemical industry, nobody has more experience and expertise than NASH. NASH optimizes the total system solutions on the basis of successful experience. When it is apparent that dozens of solutions to the need for a vacuum system are potentially feasible, NASH engineers utilize their expertise to search out the best alternative. We investigate with our customers the economics of valuable product recovery. We take into account such environmental considerations as

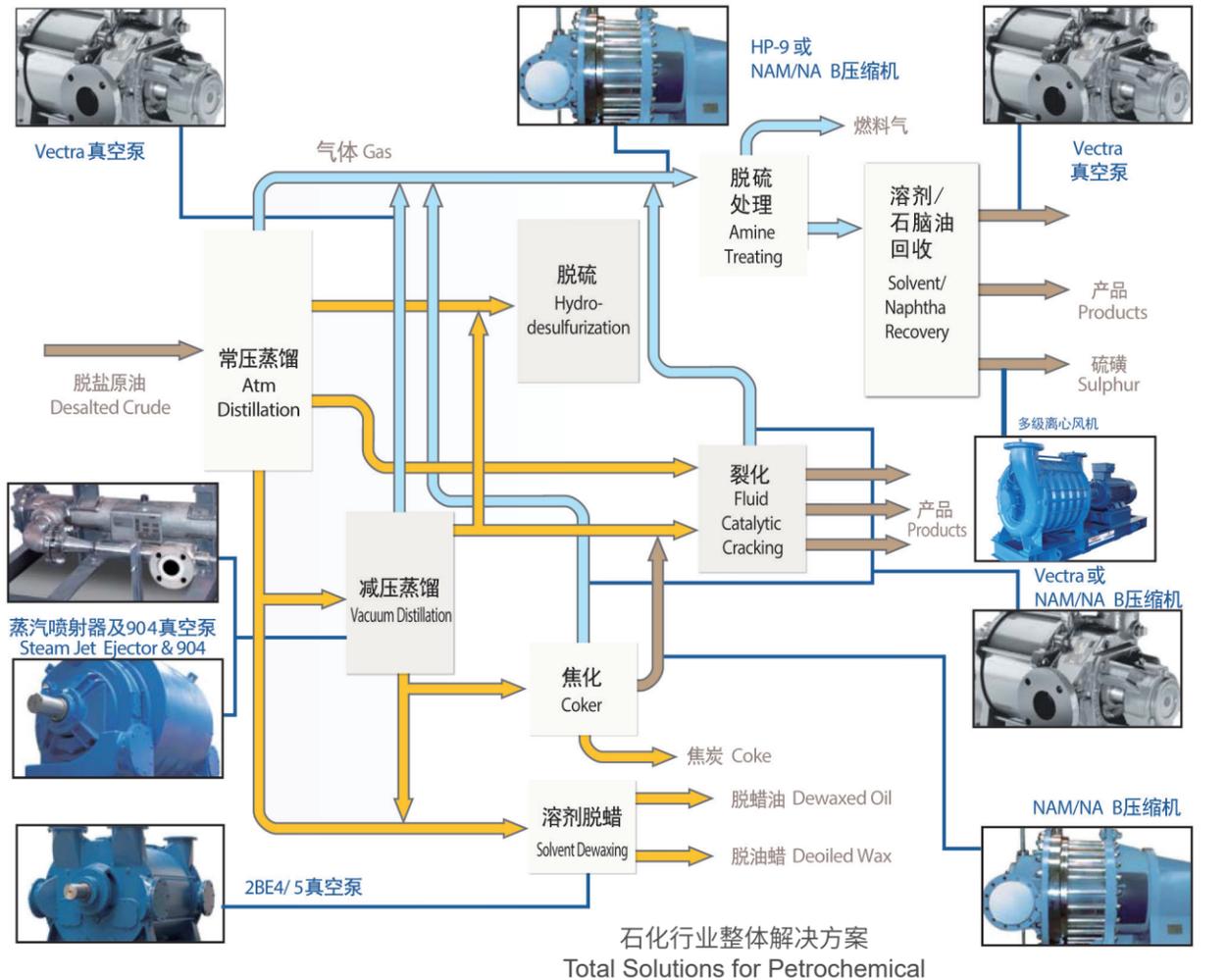
disposal of unwanted process carryover. We find ways to conserve power, water, and heat energy. We evaluate system arrangements, scheduled maintenance and service life. We analyze available ratios of first cost to operating costs, so that our customers can tailor those two different types of expenditures to their company's financial objectives. In summary what we do is to supply total ENGINEERED SYSTEMS solution designed to solve customer problems. With more than 100 years experience, we always meet and exceed your process application needs.

## NASH在真空和气体输送领域

NASH – a valued-added provider of total systems solutions

## 为您提供增值的整体系统解决方案

provider in vacuum pumping & gas transportation



# 创新产品和技术 满足客户多样化需求

## INNOVATIVE PRODUCTS TO MEET CUSTOMER DIVERSIFICATION REQUIREMENTS

在快速迭代时代，革新是前行的核心动力。对NASH而言，高品质与持续创新，既是发展之魂，更是对全球客户长久信赖的郑重回应。百余年来，我们深耕真空与压缩技术，以专业实力铸就行业标杆，成为客户心中的“可靠伙伴”。深知各行业、各场景工

In an era of rapid iteration, innovation is the core driver of progress. For NASH, high quality and continuous innovation are not only the soul of development, but also a solemn response to the long-term trust of global customers.

For over a century, we have specialized in vacuum and compression technology, setting industry benchmarks with professional expertise and becoming the "reliable partner" in customers' minds. Fully aware that different

艺诉求迥异，NASH拒绝“标准化”局限——依托卓越工程化设计能力，融合百年技术积淀与前沿创新，为您量身定制高效、稳定、适配性强的真空与压缩机系统。丰富的产品矩阵与模块化技术组合，能精准匹配复杂工况、特殊工艺等各类需求，让解决方案

industries and scenarios have distinct process requirements, NASH rejects the limitations of "standardization". Leveraging our outstanding engineering design capabilities, we integrate a century of technical accumulation with cutting-edge innovation to tailor efficient, stable and highly adaptable vacuum and compressor systems for you.

Our rich product portfolio and modular technology combinations can accurately meet diverse needs—from complex working conditions to

无需“将就”。“以品质承诺未来”是我们的核心理念，从售前咨询、方案设计到售后支持，全周期服务贯穿始终。我们以创新驱动技术升级，用灵活定制满足多样化需求，超越客户期待，实现共赢。

special processes, which eliminating the need for "compromised" solutions. "Committing to the future with quality" is our core philosophy, with full-cycle services covering pre-sales consultation, solution design to after-sales support. Driven by innovation to upgrade technology, we meet diverse market needs through flexible customization, exceeding customer expectations and achieving win-win development.



## 助力绿色可持续发展 NASH IIoT 智能运维平台

倍缔纳士始终坚持创新驱动发展，依托完善的产品设计数据、对工业流程工艺的深度洞察及百年解决方案积累，为客户提供保障安全高效运行的卓越性能与可靠性。同时，我们以 NASH IIoT 智能运维平台为核心抓手，通过产品创新与数字化技术双轮驱

### Enabling Green and Sustainable Development NASH IIoT Intelligent Operation and Maintenance Platform

NASH has always adhered to innovation-driven development. Relying on comprehensive product design data, in-depth insights into industrial process technologies, and a century of accumulated solutions, we provide customers with outstanding performance and reliability that ensure safe and efficient operation. Meanwhile, with the NASH IIoT Intelligent Operation and Maintenance Platform as the core driver, we continuously enhance equipment intelligence and customer experience through the dual impetus of product innovation and digital technology:

■ **Intelligent O&M Empowerment:** The IIoT platform collects real-time operating data of equipment such as vacuum pumps and

动，持续提升设备智能化水平与客户体验：  
■ **智能运维赋能:** 通过 IIoT 平台实时采集真空泵、压缩机等设备的运行数据，结合 AI 算法实现故障预警、性能优化及预测性维护，帮助客户减少非计划停机，降低运维成本。

compressors. Combined with AI algorithms, it realizes fault early warning, performance optimization, and predictive maintenance, helping customers reduce unplanned downtime and lower O&M costs.  
■ **Green and Low-Carbon Transformation:** The platform can dynamically analyze equipment energy efficiency data and intelligently match process

■ **绿色低碳转型:** 平台可动态分析设备能效数据，智能匹配工艺需求，助力客户优化能源消耗。例如，通过变频控制、系统集成优化等数字化手段，平均降低能耗 15%-25%，切实推动工业领域节能降碳目标落地。

requirements to help customers optimize energy consumption. For instance, through digital means such as frequency conversion control and system integration optimization, energy consumption is reduced by an average of 15%-25%, effectively promoting the realization of energy conservation and carbon reduction goals in the industrial sector.



# 世界一流的 服务能力和 服务中心网络

## WORLD CLASS SERVICE CAPABILITY AND SC COVERAGE

遍布全球的运营服务中心网络，配备了最新的技术，致力于为客户提供随时随地的支持，以保证设备的平稳、高效的运行，及时预防并排除故障。我们的服务中心拥有专业的服务人员，可以为您的真空或压缩系统提供包括安装、调试、保养和故障处理在内的现场服务。世界各地的NASH服务中心都已获得ISO 9001:2008和ISO14001:2004认证。

除了现场服务，我们也有经验丰富的技术服务人员可以为您提供所需的技术支持。当您的系统需要更高的气量、更大的压力或真空时，我们的应用工程师可以根据工况提供优化的技术升级方案，提高设备及系统的性能。

我们全方位的服务方案可以优化您的真空/压缩机系统，提高设备利用率。

NASH operates a worldwide network of Service Centers, equipped with the latest technology. We are ready to provide support keeping your process running smoothly and efficiently and to avoid extensive equipment downtime. Our capable, highly motivated personnel can even provide on-site services for installation, startup, preventive maintenance and troubleshooting your vacuum or compressor system. ISO 9001:2008 and ISO 14001:2004 certification can be found at Gardner Denver NASH locations worldwide.

In addition to the many field services, we are also available for general consulting and technical support. Need more

airflow, pressure or vacuum? Our application engineers can determine what modifications are needed and can add stages to your blower or recommend system changes or product upgrades to improve your process efficiency.

Our comprehensive service package can optimize your vacuum and compressor system and support you with measures to improve plant availability.



## NASH Care+ 守护生产线的每一次呼吸和心跳 Guard Every Breath and Beat of Your Production Line

液环真空泵/压缩机和多级离心风机对于您的运营很关键。正确的维护策略对于避免非计划、未预算的停机时间和生产中断很重要。通过NASH的 Care+ 服务计划，在您的设备生命周期内确保可靠性。NASH Care+ 的目标只有一个 ---成为您永远值得信赖的合作伙伴。

Liquid ring vacuum pumps/compressors and multi-stage centrifugal blowers are crucial to your operations. The right maintenance strategy is essential to avoid unplanned, unbudgeted downtime and production interruptions. With the NASH Care+ service program, ensure reliability throughout the life cycle of your equipment. The sole goal of NASH Care+ is to be a partner you can always trust.

### 这一切让您安心无忧 All of this gives you peace of mind



**降低总体拥有成本**  
Reduced Total Cost of Ownership

Care+服务计划根据您的不同保养需求定制维护计划,提供更具成本效益的解决方案。

The CARE service program tailors maintenance plans according to your different maintenance needs and provides more cost-effective solutions.



**卓越体验**  
Exceptional Experience

NASH有原厂技术服务团队及150年以上的行业经验作后盾。

NASH is backed by an original factory technical service team and over 150 years of industry experience.



**减少停机时间**  
Reduced Downtime

我们的Care+ 计划帮助减少计划外停机以及因生产中断而增加的成本。

Our CARE program helps reduce unplanned downtime and the increased costs due to production interruptions.



**高效的能源使用**  
Efficient Energy Use

峰值系统效率通过正确执行的维护和检查实现。

Peak system efficiency is achieved through properly executed maintenance and inspections.



**安心无忧**  
Peace of Mind

我们高质量的服务将为您消除后顾之忧,让您专注于您的聚焦点。

Our high-quality services will eliminate your worries and allow you to focus on your priorities.



决不因短期利益而出卖未来

We won't sell our future for quick profits



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