BLOWERS
BOOSTERS
VACUUM PUMPS

www.roots-blowers.com
THE COMPANY
The company’s origins can be traced back to the 1930s when one of the early manufacturers of positive displacement blowers located near Stonehouse was designing and supplying blowers, particularly to the gas industry.
Following major re-organisation, a team of engineers with many years’ experience in blower design and application formed Roots Systems in 1974 to meet the growing demands of the process industries. Based on original proven designs and with new innovative ideas the company was soon supplying blowers to many process industries and also to other markets such as waste water treatment and pneumatic conveying.
In June 1984 Roots Systems was purchased by Rotolok Holdings and, whilst continuing to operate independently, now has the substantial financial backing of this large engineering group of companies.
Since 1984 considerable investment has been made in improving the design and manufacturing facilities enabling the company to expand further into the international blower market.

MANUFACTURE
Machining, fabrication and assembly is carried out by skilled personnel at the company’s plant at Stonehouse. Modern CNC machine tools produce components for the blowers and the packages are fabricated and assembled in up-to-date workshops. Equipment is designed and built to API and ASME codes where appropriate.
Inspection is present at all stages of manufacture. Testing facilities include, mechanical, performance, leak detection, vibration, noise and hydrostatic pressure.

QUALITY
As would be expected from a manufacturer supplying many leading companies worldwide, Roots Systems has established a rigorous quality assurance system in accordance with ISO 9001. Regular audits ensure that products supplied are of high quality and every blower is mechanically and performance tested before despatch.

DESIGN & ENGINEERING
Qualified engineers design the blowers and packages using computer selection programs and the latest CAD technology. This ensures optimum selection of blowers and ancillary equipment and the prompt submission of correct documentation.
GLOBAL AIR BLOWERS
Roots Systems has developed a standard range of cast iron air blowers called the Global series. The range covers capacities to 3600 m³/h with pressures up to 1 bar g. These blowers are designed and built to provide reliable, long life, oil free operation at a competitive price.

DURAGAS® SERIES PROCESS BLOWERS
This range of heavy duty process blowers is available in a wide variety of sizes, configurations, materials and sealing arrangements to suit all gases and vapours including toxic, corrosive and explosive. Static pressures to 100 bar g and pressure differentials of 3 bar can be handled depending on the gas and the number of blower stages. Capacities are available up to 40,000 m³/h. The choice of material is determined by the application and includes stainless steel, aluminium bronze, titanium, cast iron, S.G iron, carbon steel and hastelloy. A variety of shaft seals are available to suit most applications.

STANDARD AIR BLOWER PACKAGES
Roots Systems manufactures a range of standard air blower packages for a wide variety of applications and industries. The main applications are water and sewage treatment and pneumatic conveying. Roots air blower packages include all the usual accessories such as silencers, filters, valves, drives and acoustic enclosures and can be supplied with electrical control equipment and variable speed devices. Each Roots air blower package is tested before despatch. A range of air exhauster packages is also available for vacuum conveying.

CUSTOM PACKAGES
Roots Systems custom packages are designed and engineered using the latest CAD technology reducing time and cost. The packages can include drives, silencers, heat exchangers, acoustic enclosures, full instrumentation, control gear, valving and complete piping systems.

VACUUM PUMPS
Roots Systems is able to offer a range of vacuum systems to suit a wide variety of application and processes. Vacuum systems can be supplied comprising liquid ring vacuum pumps or multi-stage dry vacuum pumps singularly or in combination with mechanical boosters depending on the vacuum and capacity required and the environmental conditions.
EXPERIENCE
Since 1974 Roots Systems has been supplying blowers and vacuum pumps to many leading process companies and contractors worldwide, including:

Shell  Bechtel  JGC Corporation
British Petroleum  Foster Wheeler  Sumitomo
ICI  Namprogetti  Chiyoda
M. W. Kellogg  Hyundai  Amec

During this period Roots Systems has built up an unrivalled experience in the design and manufacture of blowers handling many different gases in a wide variety of applications and operating conditions.
Some of the gases handled include:

Acid Vapours  Butane  Oxygen
Hydrocarbons  LPG  Propane
Hydrogen  Steam  Methane
Nitrogen  Chlorine  Carbon Dioxide
Natural Gas  VCM  Sulphur Dioxide

AFTER SALES SERVICE
The company has qualified, experienced service engineers available to travel worldwide for commissioning and operator training.
Standard overhauls and service can be carried out both on site and at Roots Systems plant.
A growing network of overseas agents provide local back-up.