

Additional Dresser ROOTS® Products



Universal RAI® - DSL



LARGE ROTARY PACKAGE



RAS - J



RAM™



WORLDWIDE SERVICE CENTERS



TRI-NADO™

Sales Offices Worldwide



The original **ROOTS** blower™



www.cagi.org



Roots

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blowers compressors

Roots



EASYAIR™
3000

Factory Blower Package System



Excellence

Our long history of reliability, quality and excellence gives our customers the highest standards of performance.



Dresser Roots Reputation for Reliability, Quality and Technical Excellence Is Built Upon 150 Years of Experience

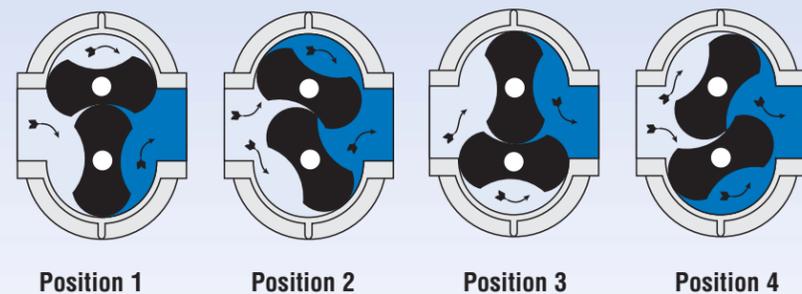
With over 150 years experience, Dresser Roots – the originator of the lobed blower in 1854 and the tri-lobe blower in 1914 – continues to be the premier global manufacturer and supplier of rotary positive and centrifugal blowers and systems. Dresser Roots operates five authorized Service Centers located in Houston, Texas, Connersville, Indiana, Mexico, the UK, and Singapore.

Operating three manufacturing locations, including the original Roots factory in Indiana, Roots also maintains a manufacturing facility at Huddersfield, UK for service and supply for our European operations.

Our long history of reliability, quality and excellence gives our customers the highest standards of performance as well as the world's largest distribution and service network.

What's new at Dresser Roots is our EasyAir™8000 Factory Blower Package System, which is a compact design for minimum floor area which incorporates features for low noise level output. Additional features include: easy access for routine maintenance, optimized auto-belt tensioning, and a full range of high-efficiency 2 and 3 lobe blowers that supply oil-free air for aeration and other processes.

Roots Operating Principle



Two figure-eight lobe impellers mounted on parallel shafts rotate in opposite directions. As each impeller passes the blower inlet, it traps a definite volume of air and carries it around the case to the blower outlet, where the air is discharged. With constant-speed operation the displaced volume is essentially the same regardless of pressure, temperature or barometric pressure. Timing gears control the relative position of the impellers to each other and maintain small but definite clearances. This allows operation without lubrication being required inside the air casing.

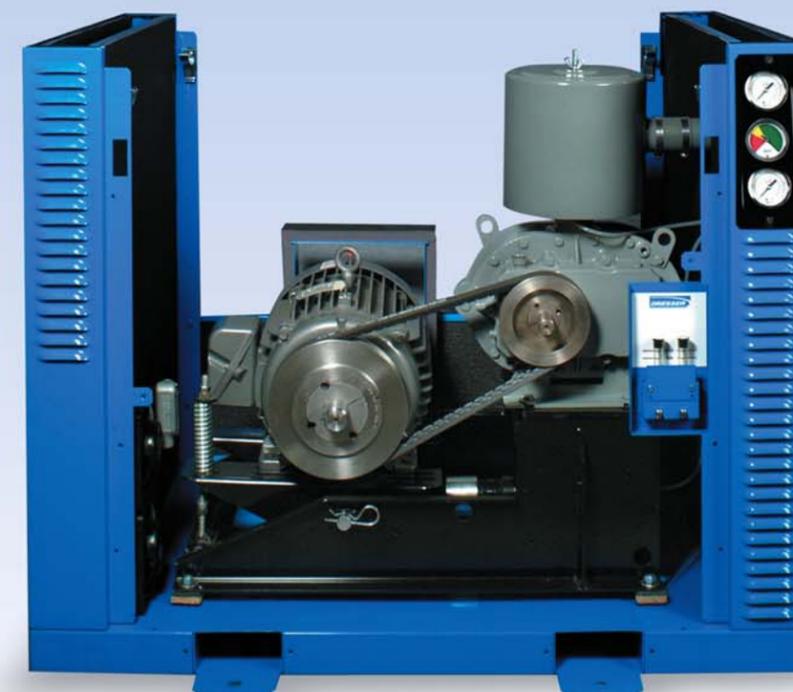
Innovation

Dresser ROOTS optimized auto-belt tensioning system to enhance reliability. We offer a range of innovative high-efficiency two and three lobe blowers.

EasyAir™8000 Factory Blower Package System

The ROOTS® EasyAir™8000 Factory Blower Package System is a noise abatement enclosure containing a pre-assembled, skid-mounted blower unit. All piping, valves, and instrumentation are in place. It is produced for vacuum or pressure applications, enabling simple on-site installation.

Roots offers conventional standard factory packages with optional equipment as detailed below. Roots also provides fully-engineered, packaged blower units specifically designed to meet exacting customer requirements.



EasyAir8000 Types and Models Available

USA Packages
Universal RAI®
RAM™

European Packages
Universal RAI®
TRI-NADO™

Efficiency

Dresser Roots directly benefits end users with durable, rigorously engineered, and cost-effective solutions for wastewater treatment, pneumatic conveyance, and other applications.



Design Features

The Roots-designed EasyAir8000 features the following:

- Dresser Roots-engineered noise abatement enclosure with ventilation to optimize equipment life and extend reliability
- Patented automatic belt tension system
- Lightweight panels for ease of maintenance and blower unit access
- Minimized foot print for easy installation
- Front-mounted differential filter and discharge pressure gauges for easy viewing
- Up to 22 dBA, free field noise attenuation with enclosure
- Integrated forklift slots for convenient, balanced transportation

The Roots Advantages

- Powder-coated enclosure for durability and protection against harsh elements
- Dual-splash lubrication on units up to 6" gear diameter
- Removable locking panels for easy access
- Integrated grill guard for maintenance inspection without dismantling
- Intake volumes from 30 M³/hr to 9,000 M³/hr
- Pressures up to 1,034 Barg (15 PSIG)
- Motor horsepower to 500 HP (372 KW)
- Extremely compact design
- Short installation cycle time
- Low installation cost
- Low operation cost
- Additional optional features available for ease of lubrication maintenance
- Competitive pricing
- Largest Distributor/Warranty network in the industry

Ingenuity

Dresser ROOTS® blowers and compressors are built with state-of-the-art components that maintain flexibility for upgrades and installations in existing systems.



Noise enclosure ventilation system and patented automatic belt tensioning system



Discharge pressure relief valve

EasyAir8000 Standard Equipment

- ROOTS® Dual Splash Lubricated Universal RAI®, RAM™, or TRI-NADO™ blowers
- V-belt drive with Roots Patented Automatic Belt Tension System (ABTS)
- TEFC EPACT motor
- Inlet filter silencer with paper element
- Filter restriction gauge
- Discharge base frame/discharge silencer
- Spring pressure relief valve
- Discharge pressure gauge (dual scale)
- Discharge check valve
- Vibration pads
- Manufacturer's standard paint on internal components
- Powder-coated finish on noise enclosure

Optional Equipment

- Weather proof discharge pressure switch
- Weather proof discharge temperature switch
- Discharge temperature gauge
- Roots patent pending unloading valve
- Motor starter panel
- Internal temperature gauge

Reliability

Dresser Roots has the strongest warranty in the industry.
We also have the world's largest distribution and service network.



Warranty

Dresser Roots provides the strongest Service & Repair warranties in the industry.

Roots backs all maintenance and repair work performed at Roots facilities or in the field with one year parts and workmanship, including competitor's parts, competitive pricing and SC ISO-9001 Certified.

Brand Repair Capabilities

Roots also has the experience to repair or remanufacture all your equipment to original or higher specifications. Specifically, Roots provides full service and repair of all brands, including: Gardner Denver, Sutorbilt, Lamson, Hoffman, MD Pneumatics, Nash and all others.

Superior Field Services

Roots provides superior field services, control systems, and fastest repair turnaround. We provide full job-site troubleshooting services and capabilities and state-of-the-art diagnostic tools delivered and utilized on-site for thorough diagnosis prior to removal. Because we maintain the world's largest network of service representatives, we provide a 24-hour delivery for most parts and repair kits and enable the right response for your level of urgency.

ROOTS Control Systems services include Revamp, Upgrade,

Replacement and Conversions (analog to touch-screen and gauges to transmitters).

We offer an exchange program covering a wide range of ROOTS rotary equipment to keep your repair downtime to an absolute minimum. Our Services Centers maintain a complete inventory of genuine ROOTS parts for fastest turnaround.

All competitor parts are also available for any repair need.

Testing

All serviced units are mechanically tested to assure compliance to rated specifications. Only Roots provides the quality assurance of unit testing on each blower or compressor rebuilt or repaired.

Service Center Locations

Roots operates three strategically located blower repair facilities: Connersville, Indiana, Houston, Texas, and Huddersfield, UK. Roots has additional authorized service centers throughout the world. Each facility is staffed with factory-trained service personnel. All Roots service centers are equipped to handle maintenance and repair service for almost every brand of small and large rotary blowers, gas pumps and vacuum pumps.