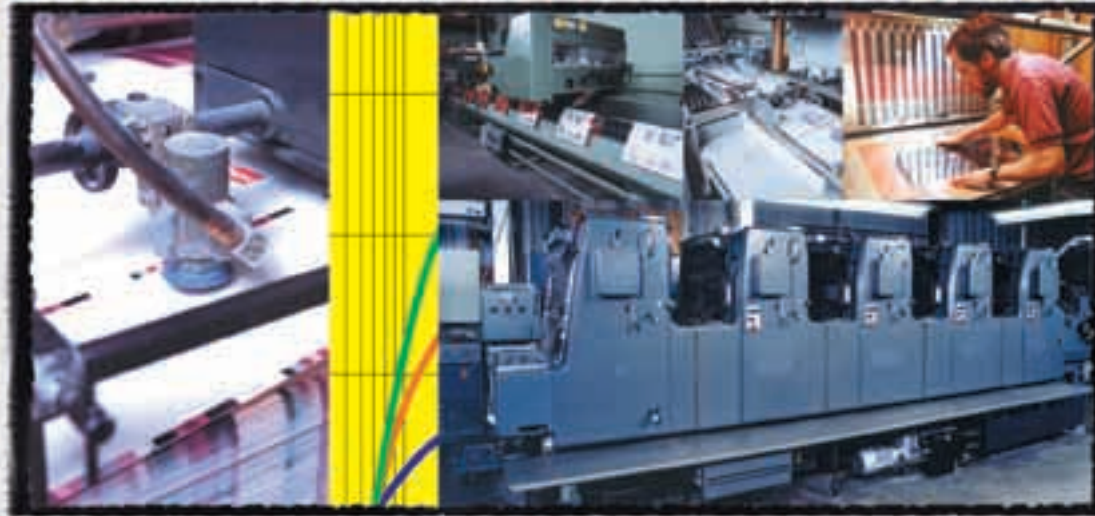


# Vacuum/Pressure Pumps and Systems for the Printing Industry



# Vacuum and Pressure Pumps for the Printing Industry



Merlin Combination Pressure/Vacuum Pump

## Merlin Pump

The Merlin is a rotary, non-contacting, claw-type combination pump that provides both pressure and vacuum with independent, completely oil free, pumping chambers. Professional printers appreciate the Merlin's extreme tolerance of paper dust and its low cost of ownership.

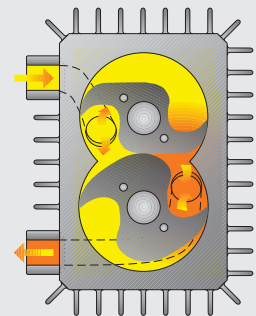
## Low Ownership Cost

- Maintenance – with non-contacting, claw-type rotors there are no vanes to wear or replace so there is no downtime.
- Small motor – because the rotors are friction free, the Merlin uses a smaller motor which consumes less energy than other types of pumps. Even a single Merlin pump can save almost \$2,000 a year in electrical costs.

Call us for a free cost of ownership analysis, and find out how the Busch Merlin may be an ideal replacement for your current pump.

## Operating Principle

Two non-contacting claws trap a volume of air at the inlet and convey it to the exhaust where it is compressed and discharged.



## Features

- Non-wearing, non-contacting, double claw-type design
- Dry pumping chambers
- Separate pressure and vacuum chambers
- Air-cooled
- Compact
- Simple, modular construction
- Cooling coils for blast air
- Long life, low maintenance
- Quiet

Busch, Inc. provides the printing industry with a wide range of rugged and dependable vacuum and pressure pumps for almost all equipment used in the printing industry.

Busch has been serving the vacuum industry for over 40 years and has manufacturing plants located in Virginia Beach, Virginia, Switzerland and Germany. With our experience and global locations, we provide fast service,

technical support and a worldwide parts and distribution network for our customers.

From single pumps to computer controlled vacuum systems, Busch designs and builds vacuum equipment that brings reliability, efficiency and new technology to printing facilities and original equipment manufacturers.

## More Busch Pressure and Vacuum Pumps



**Mink MM**  
Enclosed rotary non-contacting claw type vacuum or pressure pump



**Mink MI**  
Rotary, non-contacting, claw type design for pressure or vacuum



**R 5 Series**  
Rotary vane, oil-recirculating, direct driven, air-cooled, and quiet



**Seco Print**  
Dry, rotary vane combination vacuum/pressure pump



**Seco Model SV1040**  
Enclosed dry rotary vane vacuum pump



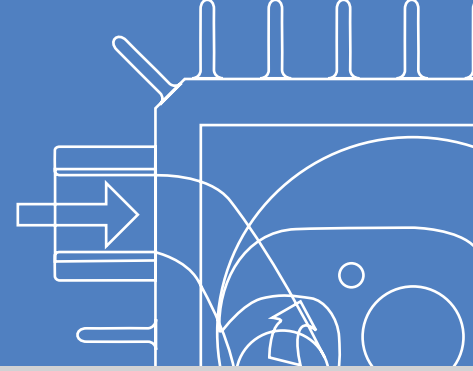
**Seco Print for vacuum and pressure**  
Self-lubricating, dry, carbon rotary vanes



**Miniseco Model SV1004**  
Self-lubricating, dry, carbon rotary vanes



**Samos SB**  
Dry running, regenerative side channel type blowers that produce low to moderate pressure or vacuum



*"Busch pumps have increased productivity and lowered our maintenance costs."*

*President, Commercial sheet fed printer*

*"We are now able to maintain a better more consistent vacuum level of 22" Hg with the Busch system, than we did with the individual rotary vane vacuum pumps..."*

*Plant Engineer/Maintenance Manager, Bindery facility at magazine and catalog printer*

*"We chose a Busch quadruplex vacuum system because of its ability to provide a sufficient quantity of vacuum regulated to our production requirements. We have found the pumps to be reliable, smooth running and virtually maintenance free"*

*Collating Manager, New York newspaper*

### Printing Applications

- Binders
- Cartoners
- Casemakers
- Coaters
- Copy Cameras
- Die Cutters
- Feeders
- Folders
- Heat Sealers
- Hot Foil Stampers
- Inserters
- Joggers
- Printing Presses
- Paper Cutters
- Perforators
- Platemakers
- Saddle Stitchers
- Scorers
- Stackers
- Shrink Wrappers
- Silk Screening
- Stitchers
- Tipplers



# Central Vacuum Systems



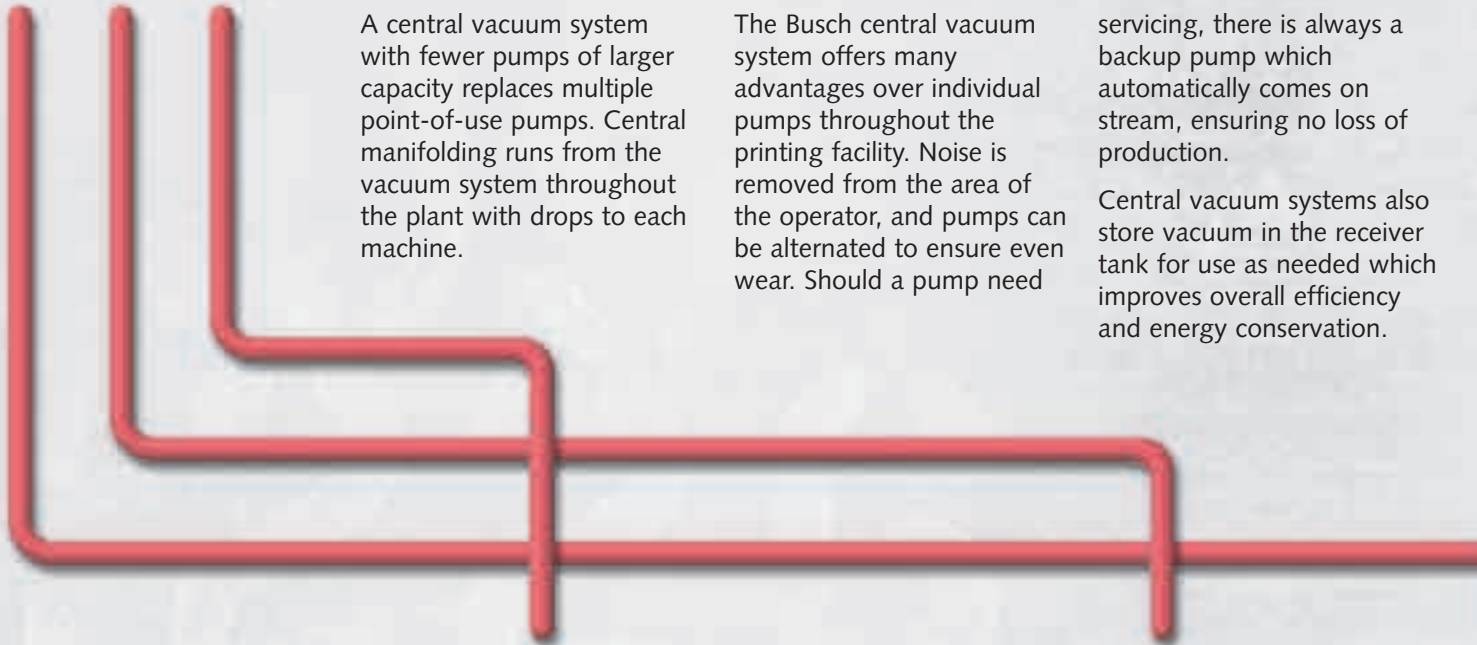
The vertical duplex system can be expanded to a triplex or quadruplex system with easy-to-install mechanical and electrical modules.



Components of the electrical expansion module quickly fasten into pre-drilled positions in the control panel. They include hour meter, H-O-A switch, and motor starter.



Mechanical Expansion Module includes pump, filters, piping and pre-drilled stand or skid for quick and easy installation onto system frame.



A central vacuum system with fewer pumps of larger capacity replaces multiple point-of-use pumps. Central manifolding runs from the vacuum system throughout the plant with drops to each machine.

The Busch central vacuum system offers many advantages over individual pumps throughout the printing facility. Noise is removed from the area of the operator, and pumps can be alternated to ensure even wear. Should a pump need

servicing, there is always a backup pump which automatically comes on stream, ensuring no loss of production.

Central vacuum systems also store vacuum in the receiver tank for use as needed which improves overall efficiency and energy conservation.





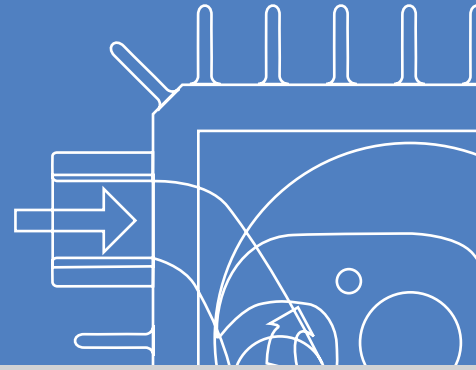


### Enclosed Vacuum/Pressure Systems

Multiple pumps (suction and blast) can be centralized into one cabinet, which can be custom designed to meet your specific requirements.

#### Busch System Advantages

- Proven reliable pump designs
- Lower operating and energy costs
- Dedicated engineering support
- Backup pump eliminates downtime
- Easy access for servicing
- Nationwide service network
- ISO 9001 Registered Company



### Enclosed Vacuum/Pressure Systems

- Clean appearance
- Removes noise and heat from production floor
- Variable speed drives to meet actual demands and to provide separate control for suction and blast
- Two inch sound insulated walls with perforated metal inner lining for maximum sound reduction
- Reduced maintenance
- Circulating fan
- Intake filter
- Small footprint

### Expandable Central Vacuum/Pressure Systems

- Expandable with easy-to-install mechanical and electrical modules
- Quiet, vibration free operation
- Remote location reduces noise and heat near work stations
- Automatic alternation for even wear of pumps
- Air cooled
- Small footprint
- All components in stock for quick delivery





Busch - all over the world in industry

### Nationwide Sales, Distribution and Service Centers

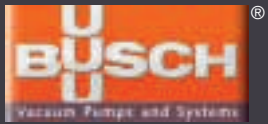


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