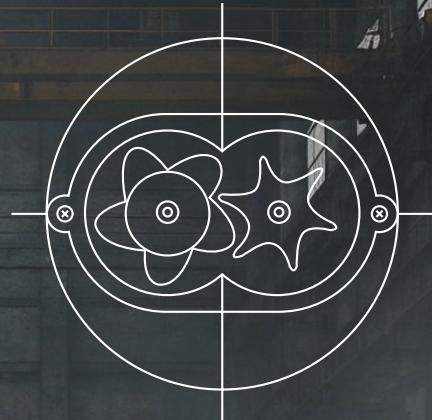


SVT SERIES

# OIL-LUBRICATED SCREW VACUUM PUMPS WITH VSD



Precise, efficient, quiet operation  
for multi-pump plants



VAKUUM EXPERTEN





Elmo Rietschle®

# THE SVT THINK SMARTER

The SVT family combines oil-sealed screw technology with integrated variable-speed control to deliver high, stable pumping efficiency in the sub-atmospheric band where packaging, vacuum filling, and can-line processes actually run.

Designed for centralized vacuum systems, SVTs hold precise setpoints while keeping heat and noise out of the packing hall. Pair with VSD boosters where deeper vacuum is needed; keep the SVT as the efficient backbone.



## Cleaner halls

Remote plant room = less heat/noise, lower HVAC cost.



## Energy savings

Holds exact setpoint (no over-pumping) up to 50% savings.



## Plug-and-play

Integrated controller, service access, low oil carry-over ( $\leq 3\text{ppm}$ ).



## Scalable control

Coordinate up to 8 pumps with trim & baseload strategy for plant-level efficiency.



## Service confidence

Long intervals, genuine parts, training and support programs.

# APPLICATIONS OVERVIEW

## BATTERY & ELECTRONICS

- House vacuum for production lines  
SVT provides reliable vacuum for pick-and-place operations, component handling, and fixture clamping in electronics and lithium battery plants.

## FOOD & BEVERAGE

- Vacuum packaging  
Meat, fish, dairy, ready meals using 2-/3-pipe staged systems for stable seals and energy savings.
- Vacuum filling  
Milk powder, baby formula, canned fruit / vegetables — ideal at 100-200 mbar (abs).

## CAN MANUFACTURING

- Aluminium beverage cans  
Holding / clamping during forming, necking, and high-speed decorating; centralized SVTs with robust filtration.

## GLASS BOTTLE

- Glass container production  
Vacuum forming supports clean, continuous operation in harsh environments.

## MEDICAL SYSTEMS

- Centralized suction for healthcare  
Dependable vacuum for hospital suction networks, sterilization processes, and other critical medical applications where continuous, clean vacuum is essential.





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# THE CENTRE OF SMARTER EFFICIENCY



## Hot/cold section architecture

Thermally managed canopy separates hot and cool zones to protect electronics, stabilize performance, and control noise; maintaining the correct oil temp is important and is carried out by intelligent thermostatic controller.



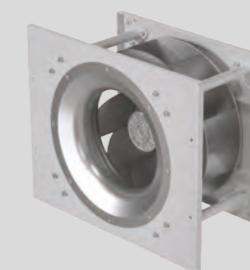
## 3-Stage oil separation

Engineered separator system designed with computational fluid dynamics results in very low back-pressure and  $\leq 3$  ppm oil carry-over supporting efficiency and a cleaner plant.



## High quality airend

The SVT airend delivers high flow and exceptional energy efficiency for demanding applications. Its precision engineering ensures smooth, low-vibration operation for long-term reliability.



## Inlet control & throttling

An integrated valve regulates inlet conditions during start and at rough vacuum; once below  $\sim 500$  mbar (abs) the valve is fully open and the VSD takes over to maintain setpoint precisely, ensuring the absolute minimum of energy is used.



## Drive & motor package

Premium-efficiency drive/motor pairing enables deep turndown and smooth ramping, avoiding inrush peaks and supporting base-load/trim strategies (series models span 7.5-90 kW). This combination offers maximum efficiency.



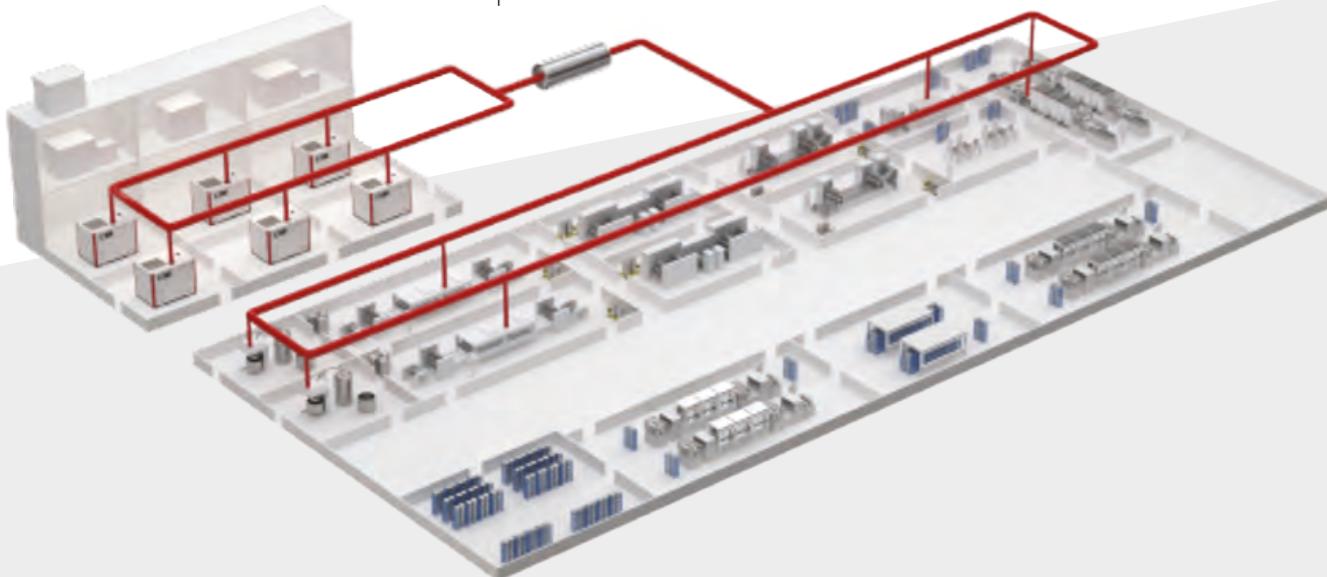
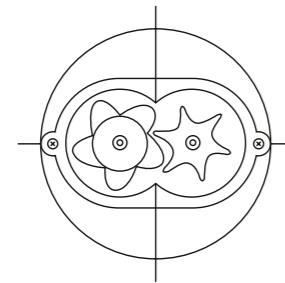
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# VARIABLE SPEED & SETPOINT CONTROL

## Proven Energy Logic

### Design to the duty

Running a system at deeper vacuum than the process needs can inflate throughput (and power) by 30-50%. SVT setpoint control prevents this creep and protects against unplanned energy loss.



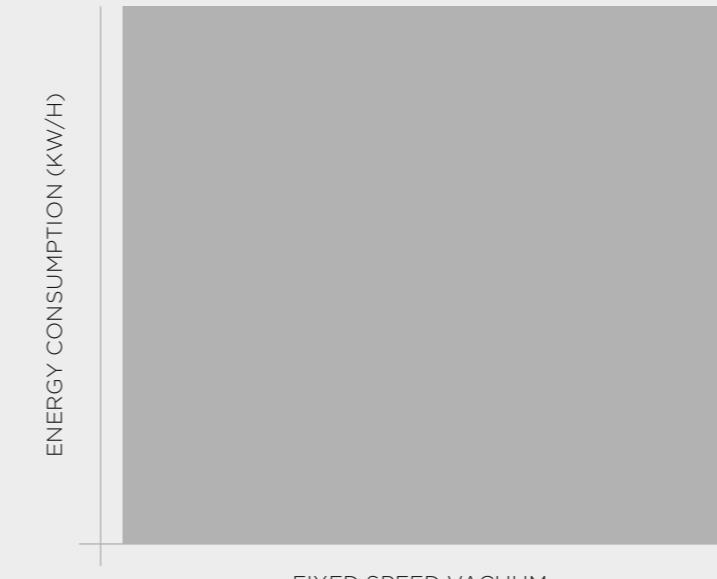
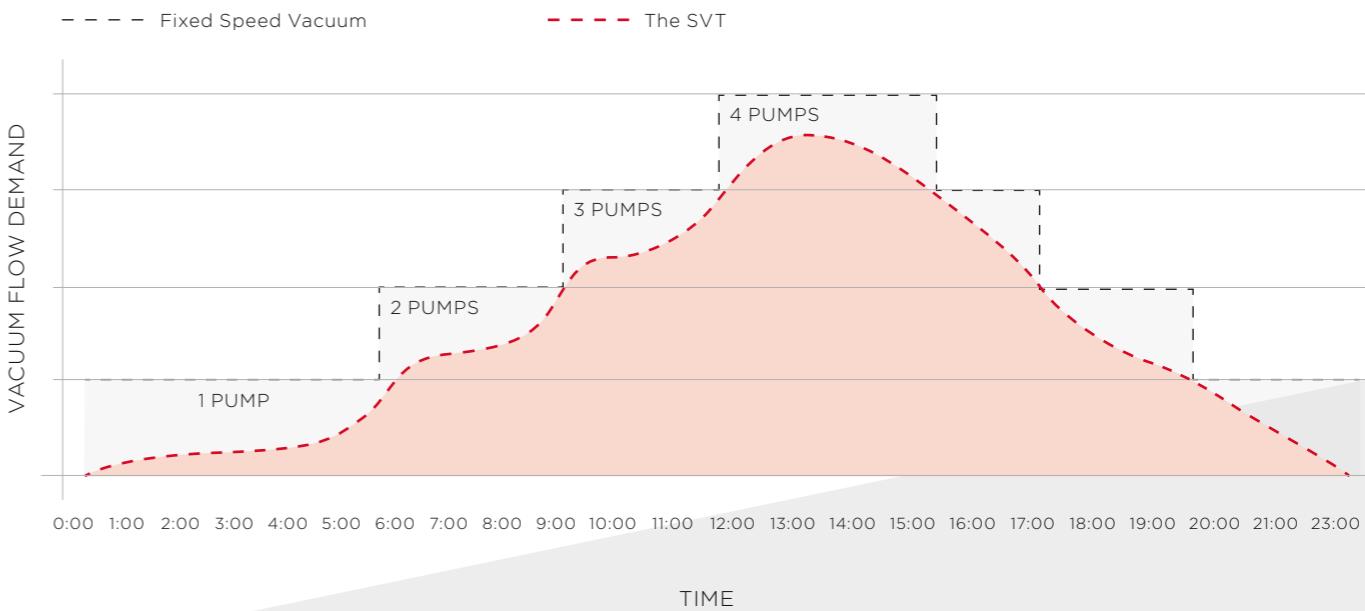
### Plant-wide savings

In multi-pump installations, run one “trim” SVT to follow demand; keep the others at their most efficient fixed speed. This control logic is much more efficient than fixed speed machines with cascade control.

### Combine for maximum efficiency

SVTs are engineered to deliver stable system vacuum and excel under variable flow conditions. Pair them with VSD boosters to achieve deeper vacuum levels for demanding applications such as food and beverage processing.

### Fixed vs variable speed vacuum pumps



Up to  
**50%**  
energy  
savings

THE SVT



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# TECHNICAL HIGHLIGHTS

|                | MAX. CAPACITY (M <sup>3</sup> /hr) <sup>1</sup> | MOTOR RATING (kW) | NOISE (DB(A)) <sup>2</sup> | OIL CAPACITY (L) | TOTAL WEIGHT (KG) | COOLING METHOD | SUPPLY POWER FREQUENCY (Hz) |
|----------------|---|-------------------|----------------------------|------------------|-------------------|----------------|-----------------------------|
| <b>SVT600</b>  | 605   | 7.5               | 68                         | 18               | 741               | AC/WC          | 50/60                       |
| <b>SVT800</b>  | 735   | 11                | 75                         | 22               | 890               | AC/WC          | 50/60                       |
| <b>SVT1000</b> | 905   | 15                | 78                         | 22               | 933               | AC/WC          | 50/60                       |
| <b>SVT1500</b> | 1,386   | 22                | 75                         | 41               | 1,560             | AC/WC          | 50/60                       |
| <b>SVT1800</b> | 1,672   | 30                | 78                         | 41               | 1,620             | AC/WC          | 50/60                       |
| <b>SVT2000</b> | 1,936   | 37                | 78                         | 41               | 1,660             | AC/WC          | 50/60                       |
| <b>SVT3000</b> | 3,135   | 45                | 80                         | 90               | 3,552             | AC/WC          | 50/60 <sup>3</sup>          |
| <b>SVT4000</b> | 3,830   | 55                | 80                         | 90               | 3,608             | AC/WC          | 50/60 <sup>3</sup>          |
| <b>SVT4500</b> | 4,310   | 75                | 83                         | 90               | 3,773             | AC/WC          | 50/60 <sup>3</sup>          |
| <b>SVT5400</b> | 5,335   | 75                | 84                         | 120              | 5,057             | AC/WC          | 50/60 <sup>3</sup>          |
| <b>SVT6000</b> | 5,740   | 90                | 85                         | 120              | 5,631             | AC/WC          | 50/60 <sup>3</sup>          |

1 = Measured as per ISO21360-2:2012(E)

2 = Noise as per ISO2151:2004 under ideal conditions

3 = 60hz option (Non-Standard)

AC = Air Cooled

WC = Water Cooled



|                | L (mm) | W (mm) | H (mm) |
|----------------|--------|--------|--------|
| <b>SVT600</b>  | 1390   | 960    | 1520   |
| <b>SVT800</b>  | 1530   | 1060   | 1520   |
| <b>SVT1000</b> | 1530   | 1060   | 1520   |
| <b>SVT1500</b> | 2040   | 1360   | 1650   |
| <b>SVT1800</b> | 2040   | 1360   | 1650   |
| <b>SVT2000</b> | 2040   | 1360   | 1650   |
| <b>SVT3000</b> | 3150   | 1950   | 2230   |
| <b>SVT4000</b> | 3150   | 1950   | 2230   |
| <b>SVT4500</b> | 3150   | 1950   | 2230   |
| <b>SVT5400</b> | 3350   | 2250   | 2160   |
| <b>SVT6000</b> | 3350   | 2250   | 2160   |

## Why SVT Wins in Real Plants

Optimized for real World operating pressures

SVT is built for continuous performance where most industrial processes actually run at 100 to 250 mbar (abs). This means better efficiency, less stress on components, and longer life in real applications.

Energy efficiency through intelligent control

SVT uses variable speed drives and staged system design with precise setpoint control to eliminate overpumping. The result is up to 30 to 50 percent energy savings compared to conventional fixed speed systems.

Proven performance across industries

From food packaging halls to battery plants and can manufacturing lines, SVT systems deliver cleaner rooms, lower energy consumption, and stable product quality validated in real world installations worldwide.



Discover more





Elmo Rietschle®

# LIFECYCLE, SERVICE & SUPPORT

Preventive programs tailored to duty cycles, with genuine parts and trained Elmo Rietschle technicians. Operator training enforces setpoint discipline and staging best practices, key to sustaining energy and seal quality.



# PROTECT

COMPLETE PEACE OF MIND



GENUINE PARTS

## BENEFITS OF CHOOSING PARTS PROTECT



### Practical Knowledge

Useful maintenance tips to avoid unnecessary downtime and maintain steady productivity.



### Dedicated Support

Our team is committed to providing prompt and effective assistance whenever you need it.



### Genuine Parts Assurance

We guarantee the use of genuine parts to ensure your equipment runs smoothly and reliably.



### Transparent Pricing

With predictable costs, you can effectively plan and manage your maintenance budget with confidence.

## WHY CHOOSE ELMO RIETSCHLE?

When looking for solutions to support your vacuum or low pressure system we are an expert partner you can trust.

Our extensive product range, technical knowledge and experience enable us to continue to engineer tailored solutions for a wide array of applications.



### Optimum Performance

Constant vacuum and low pressure



### Sustainability

Embracing eco-friendly technologies and production methods



### Flexibility

Wide product range to adapt to different application demands



### Lower Total Cost of Ownership

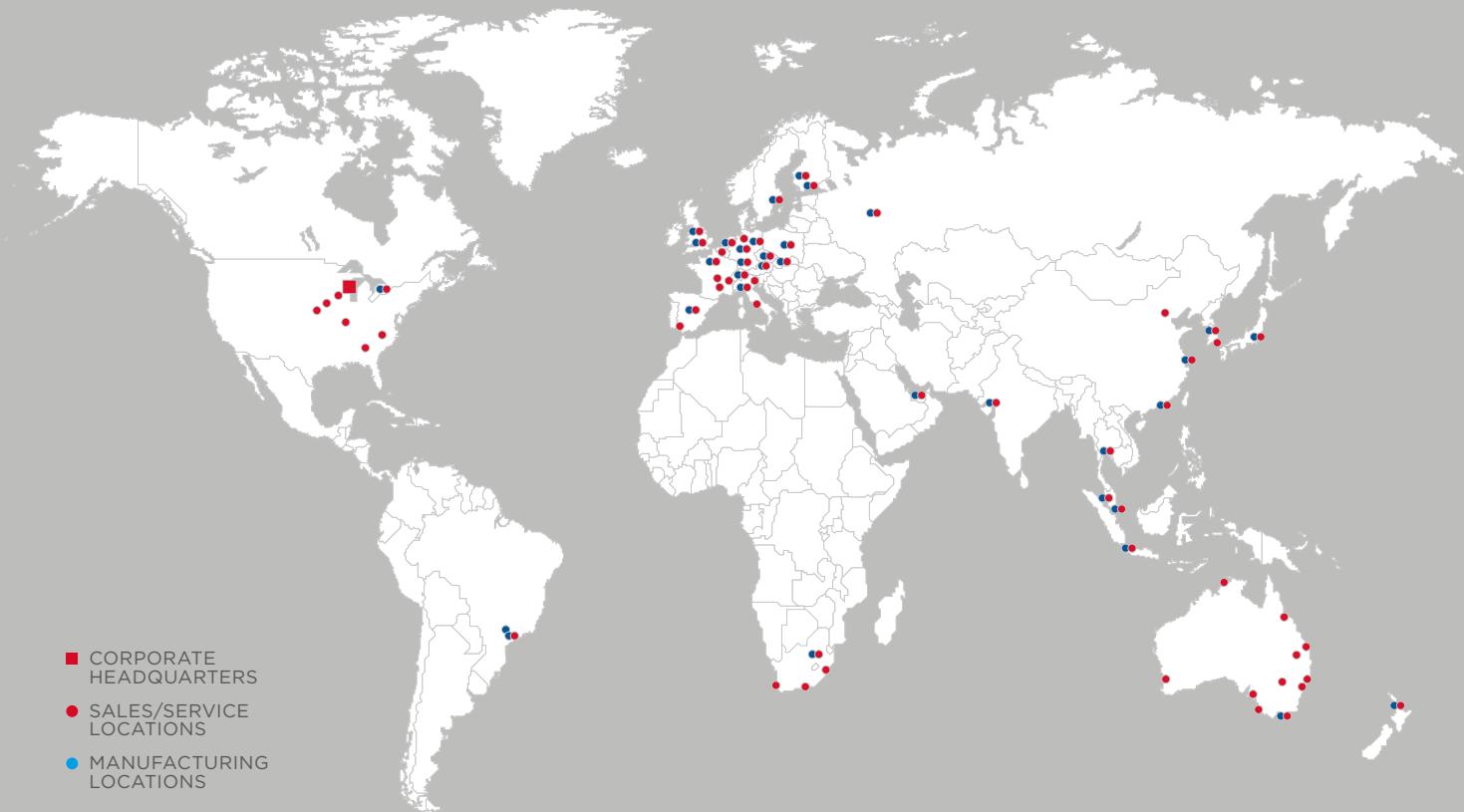
Reduce maintenance & energy consumption

## PART OF A WIDER FAMILY

Elmo Rietschle is part of **IR Ingersoll Rand**, which gives our customers access to an even wider range of products and solutions. Ingersoll Rand has a very broad range of innovative and mission-critical air, fluid, energy and medical technologies, providing services and solutions to increase industrial productivity and efficiency.



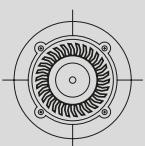
We have locations throughout the world to better supply and support you. Our expert local service personnel speak your language.



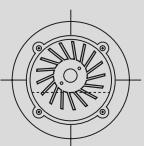
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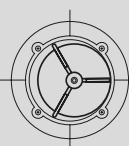
**F-SERIES**  
Radial



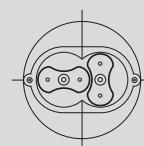
**G-SERIES**  
Side Channel



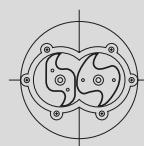
**L-SERIES**  
Liquid Ring



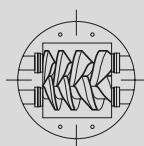
**V-SERIES**  
Rotary Vane



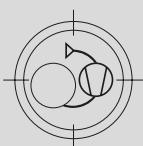
**R-SERIES**  
Rotary Lobe



**C-SERIES**  
Claw



**S-SERIES**  
Screw



**X-SERIES**  
Systems