VACUUM SOLUTIONS

FOR THE LITHIUM-ION BATTERY INDUSTRY

Elmo Rietschle®



VAKUUM EXPERTEN

VACUUM PRESSURE

Elmo Rietschle
An Ingersoll Rand Business

Our **customer first strategy** means we work hard to deliver value to our customers by understanding their challenges and aligning our solutions with their actual needs.

There are many reasons to choose Elmo Rietschle when looking for solutions to support your vacuum and pressure applications. Our precise knowledge of industrial processes and long history of product and application know-how means we deliver high quality products. A global service network with on-site support and knowledgeable, personal consultation from our engineers means you will get more than “just” a first class product – we deliver peace of mind.

Lowering energy consumption

and reducing the environmental impact of our solutions

Reducing life time cost of ownership

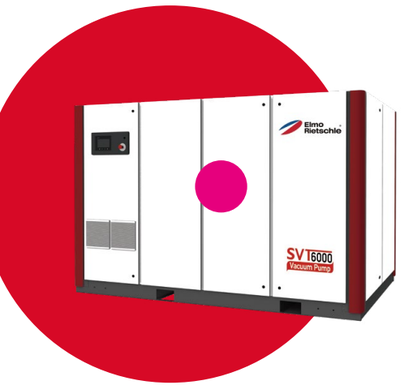
by offering high quality, fit for purpose equipment with low maintenance

Improving your process productivity

to reduce your production costs whilst increasing output

Harnessing innovation

to continually keep your business moving forward



SVT Series Oil Screw Vacuum Pump

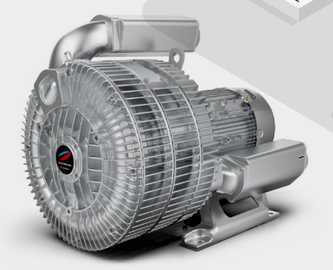
Slurring & Mixing / Lamination & Packaging

- Intelligent control system
- Patented three-stage oil separation
- Cool / Hot Dedicated Zones
- VSD centrifugal cooling fan
- Speed range: 600-6,000m3/h

2BH Series Side Channel Blower Rotary Vane

Coating

- Pumping speed range: 50-3,000m3/h
- Low noise
- Low maintenance
- Reliable operation
- Robust & Durable



Project Case Study

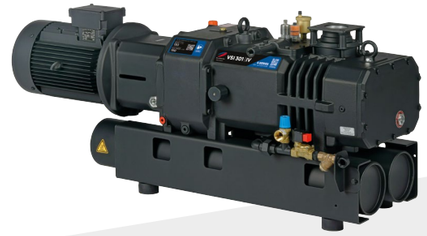
The newly set-up project to assemble lithium-ion battery module for this company has stringent vacuum pump requirement due to the presence of water moisture, dust particle, process residues and high operating temperature as part of the lithium-ion battery manufacturing process. Ingersoll Rand SVT Series Oil Screw Vacuum Pump and S Series Dry Screw Vacuum Pump can effectively vacuum out the unwanted residues, gases produced during the process to achieve the highest purity and quality in the finished product, ensuring operational reliability and optimal efficiency.

For this project, the vacuum requirements vary across different aspects of the manufacturing process and SVT Series Oil Screw Vacuum Pump and S Series Dry Screw Vacuum Pump can provide a reliable, efficient proposal that exceed the project requirement.

VS Series Dry Screw Vacuum Pump

Electrode Drying & Formation Degassing

- Pumping speed range: 150-780m3/h
- Advanced screw design
- Double Ended Shaft support
- Reliable shaft sealing technology





After Sales Service

We keep an eye on every machine in use. We pay great attention to the user experience of every customer. We care about the customers return on investment of every plant.

Ingersoll Rand provides comprehensive after sales services, including but not limited to preventative & scheduled maintenance program, genuine parts, onsite inspection, expert maintenance, customer visits and effective professional training, just to make sure that every product runs well at optimal performance for your peace of mind.

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Elmo Rietschle Vacuum Product Line

We offer the widest range of reliable and efficient vacuum and low pressure technologies. Delivering outstanding choice of both oil lubricated and dry running solutions.



Rotary Vane

Vacuum

- Max. flow rate: 154m³/h
- Ultimate vacuum: 150mbar(abs)

Pressure

- Max. flow rate: 154m³/h
- Max. pressure: 1.5bar(g)



Claw

Vacuum

- Max. flow rate: 1,200m³/h
- Ultimate vacuum: 150mbar(abs)

Pressure

- Max. flow rate: 600m³/h
- Max. pressure: 2.2bar(g)



Side Channel

Vacuum

- Max. flow rate: 2,500m³/h
- Pressure diff: -800mbar(abs)

Pressure

- Max. flow rate: 2,500m³/h
- Pressure difference: 1,100bar(g)



Rotary Vane Dry

- Max. flow rate: 1,353m3 /h
- Ultimate vacuum: 0.5mbar(abs)



Rotary Lobe

- Max. flow rate: 30,000m3 /h
- Pressure diff: 900mbar



Dry Screw

- Max. flow rate: 2,700m3 /h
- Ultimate vacuum: 0.8mbar(abs)



Vacuum System Solutions

Simplex, Duplex and Triplex Central Vacuum Systems offer highly efficient and reliable packages for vacuum supply.

ELMO RIETSCHLE
LOW PRESSURE & VACUUM SOLUTIONS
www.elmorietschle.com

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