



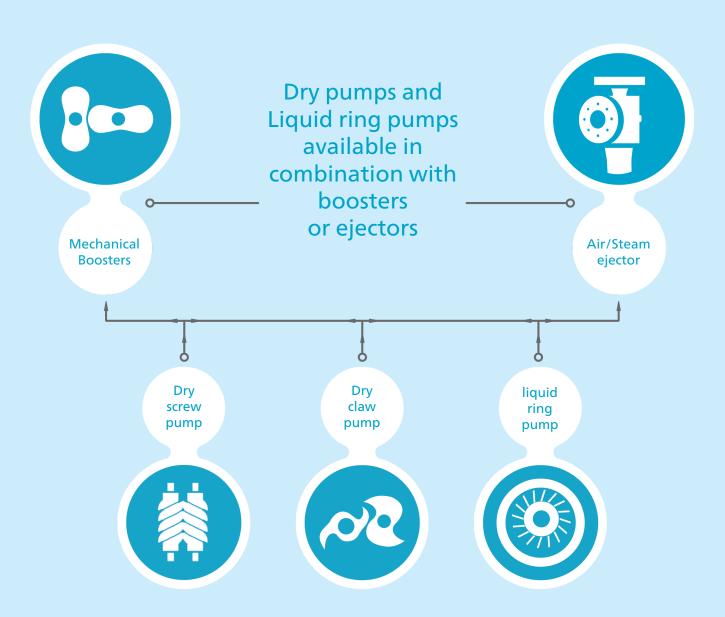
# An Industry leader in developing innovative and sustainable vacuum and compression solutions

At Atlas Copco, our business is driven by the determination to make processes run more effectively by understanding the needs of the industries we serve. Whatever the application, we provide the vacuum and compression solution.

As the leading innovator in the industrial vacuum market, we have continued focus on energy efficiency that translates into savings for our customers. Our products are the starting point to providing a total vacuum and compression solution for dedicated point-of-use machines and central vacuum systems.

# Innovative and reliable vacuum and compression solutions for every application in the process industry

Atlas Copco is not only an industry leader in innovative sustainable machine design and the manufacturing of vacuum pumps and low-pressure compressors, but has the ability to offer a wide range of complete vacuum systems for the basic industrial chemical, fine chemical, petrochemical and pharmaceutical industries.



### Vacuum and compression solutions

The chemical processing industry is constantly evolving and becoming more advanced, which means that vacuum and compression systems are being pushed to meet increasingly complex and demanding requirements. Atlas Copco is a leading provider of vacuum and compression solutions, and has a comprehensive range of high-quality products that are specifically designed to meet the needs of these demanding processes.

#### A solution for every application

- Active Pharmaceutical Ingredients
- Adhesives
- Aromatics
- Basic Chemical Processing
- Biofuels
- Lab Pumps and Systems
- Carbon Capture
- Detergents
- Deaeration

- Distillation
- Drying
- Evaporation
- Fertilizers and Pesticides
- Fiber Production
- Filtration
- Flavors and Fragrances
- Olefins
- Olechemicals

- Pharma End Products
- Pigments and Paints
- Plastics
- Priming
- Resin and Polymer Production
- Renewable Energy
- Reactor Duties
- Stripping
- Water Treatment













The DWS range of dry screw vacuum pumps intended for a wide variety of applications ranging from docile industrial to aggressive chemical processes. The DWS series is a simple, long life, durable pump with very low maintenance for a broad range of vacuum applications. These compact machines deliver high reliability through a rugged and robust design, while offering feature flexibility to perfectly fit your specific process application.

- DWS series Dry Screw Vacuum Pumps
- Capacities up to 270 acfm (higher capacities possible when combined with mechanical boosters)
- Ultimate vacuum to 0.01 torr

Ideal for Pharma and Fine Chemicals



#### **Dry Vacuum Pump Systems**

Ideal for chemical applications, Atlas Copco dry vacuum systems offer remarkable performance and energy efficiency. These features include intelligently designed reverse claw mechanism and patented tapered screw innovations.

Our dry vacuum systems ensure the management and mitigation of environmental contamination at a low total cost of ownership while handling increasingly complex chemicals, solvents, and compounds in a dependable and safe manner.

- Combination of DWS Dry Screw Vacuum Pumps with Boosters
- · Capacities up to 30,000 acfm possible
- Ultimate vacuum to < 0.001 torr</li>



**DWS System with Booster** 

Ideal for Pharma and Fine Chemicals

#### **Liquid Ring Vacuum Pump Systems**

Atlas Copco's range of single and two-stage liquid ring pump (LRP) systems deliver maximum efficiency for processes in the process vacuum range, with pump capacities available up to 42,000 acfm (single stage) and 3,500 acfm (two-stage). Standard packages of once through, partial, and total recirculation operation are available for the Atlas Copco LRP line of vacuum pumps.

When pumping wet gases and vapors or for applications requiring specialized materials for corrosion protection, liquid ring pumps offer substantial advantages. LRPs can function with several seal types.

- AW series Liquid Ring Vacuum Pumps
- Capacities up to 42,000 acfm (single stage) and 3500 acfm (two stage)
- Ultimate vacuum to 25 torr (seal liquid properties dependant)
- (higher capacities and deeper vacuum possible when combined with ejectors and/or boosters)



Ideal for Chemical and Petrochemical Offshore/Onshore

#### **Dry Claw Vacuum Pump Systems**

The new range based on Atlas Copco's dry claw technology features an innovative design which creates a new benchmark in the claw pump market. The simplicity, robustness, efficiency and contaminant handling capability of these pumps make them the smart choice for your application. Built to the exacting standards and quality demanded by our customers, the new dry claw pump provides you with a trouble-free and cost-effectivesolution to meet your needs.

- DZS series Dry Claw Vacuum Pumps
- Capacities up to 600 acfm
- Ultimate vacuum to 40 torr(higher capacities and deeper vacuum possible when combined with mechanical boosters)





Ideal for Priming and Central Labs

#### **Mechanical Boosters**

Combined with our vast range of dry screw, dry claw and liquid ring vacuum pump solutions, Atlas Copco mechanical boosters are capable of increasing the pumping speed at working pressure which and drastically reduce pump down time for your process.

- · DRB, ZRS Booster Series
- 150 30,000 acfm displacement capacity range
- Ultimate vacuum to < 0.001 torr (dependant on the backing pump technology)





**ZRS Series** 

Ideal for Increased system performance and efficiency

#### **Liquid Ring Compressor Systems**

Atlas Copco's range of single and two-stage liquid ring compressor (LRC) systems with near isothermal compression, are ideally suited to compress and pump wet, flammable and dirty gases and / or for applications requiring specialized materials for corrosion protection.

- Low pressure liquid ring compressor range:
- Flow capacities up to 9000 acfm
- Max outlet pressure: 18 psig
- · High pressure liquid ring compressor range:
- Flow capacities up to: 1000 acfm
- Max outlet pressure: 100 psi

**AW Series** 

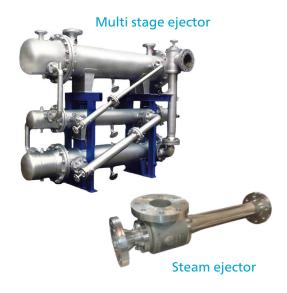


#### **Steam Ejectors**

Providing greater energy efficiency and the capacity to handle high vapour loads without the risk of cavitation, Atlas Copco offers single-stage and multi-stage steam ejector systems. At an affordable capital cost and an appealing return on investment, they are available in a variety of construction materials such carbon steel, stainless steel, and a number of exotic corrosion-resistant alloys.

- · Unlimited capacity range
- Ultimate vacuum to < 0.001 torr
- Can be supplied as hybrid vacuum systems with the final stage substituted by liquid ring vacuum pump to improve efficiency and reduce operating costs

Ideal for Refineries and Offshore



# Preventive Care Service Solutions



## Complete service with our Preventive Care plan

We take over the maintenance planning and responsibility for servicing your vacuum pump on a regular basis. Our Preventive Care plan is tailored to your pump's needs. As your pump is serviced with the latest technology, high levels of energy efficiency are achieved. We will also optimize service events to reduce your total cost of ownership and increase your productivity. This allows you to focus fully on your production.



# Maximize lifetime of your vacuum pumps

Our vacuum specialists are well trained and experts in the field. They will help you to improve uptime and protect your processes. Regular maintenance conducted by one of our vacuum specialists reduces the risk of deterioration. Damaged or worn parts will be replaced with genuine Atlas Copco spare parts to protect your investment and increase the lifespan of your vacuum pumps.



#### **Cost-effective approach**

Regular scheduled maintenance can identify potential problems before they occur and plans can be structured around your individual production situation. Preventive Care enables cost management as you can plan your maintenance costs in advance. In this way, expenses associated with unplanned downtime are minimized.



## Reliability meets non-stop productivity

We use genuine Atlas Copco spare parts and oil and our services are conducted by vacuum specialists according to manufacturer's recommendations. This enhances your vacuum pump performance, reducing the risk of downtime and enabling your production to run more smoothly.

