DHS 3000 VSD+ – Atlas Copco's robust screw vacuum pump for industrial application

Compact, quiet, and clean

Cologne, March 2026: *Atlas Copco developed the dry screw vacuum pump DHS 3000 VSD+ specifically for massive flow industrial applications. As dry technology, it is well suited for paper processing, conveying technologies, pick-and-place applications in the food industry, and as a central vacuum system. Powered by a highly efficient IE4 motor with a patented asymmetrical rotor design, users benefit from energy savings of up to 50 percent compared to competitive products. The low-maintenance, compact vacuum pump has a pleasantly low noise level and also runs vibration-free.*

Lower energy consumption and component wear

An integrated, intelligent control system with frequency converter automatically adjusts the speed of the DHS 3000 VSD+ to the requirements, ensuring that the exact vacuum level required is delivered in each process section. This results in significantly lower energy consumption and reduced wear on all moving components. Overall, this also extends the maintenance intervals and service life of the vacuum pump. Companies that value stable performance and high process reliability and also need to reduce their energy costs will find the dry-running pump a robust, clean solution.

No oil emissions or other contamination

A wear-free gearbox ensures optimum power transmission from the motor to the screw. “We have achieved a long service life for the gear wheels by using a cooled oil flow,” explains Carol Pignatelli, Product Manager from Atlas Copco. Because the DHS 3000 VSD+ does not use oil in any other way, there is no risk of oil emissions though carry over. “We have also equipped the DHS VSD+ with an air intake filter to protect operational process from dust and particles,” Carol Pignatelli continues. The oil-free technology and simple, robust design also contribute to low maintenance costs.

Quiet, vibration-free operation

A range of ergonomic advantages and straightforward handling make the DHS 3000 VSD$^+$ extremely user-friendly: under a noise-reducing hood, it runs pleasantly quietly and vibration-free. The easy-to-use Elektronikon® control system gives users a constant overview of the latest status updates on operating and downtimes, error and alarms. "Atlas Copco supplies the DHS VSD$^+$ as a complete plug-and-play unit that can be seamlessly and quickly integrated into any system," concludes Carol Pignatelli.

Key advantages of the DHS 3000 VSD$^+$ screw vacuum pump at a glance:

- Extremely efficient operation
- Intelligent process management
- Adaptation of flow to real demand – variable speed operation
- Compact footprint ensures quick and easy installation
- Paper filters protect against dust and particles
- Supplied as a complete plug-and-play unit
- Full service with preventive maintenance plan
- Robust construction minimizes maintenance and system downtime.

Caption:

Atlas Copco developed the dry screw vacuum pump DHS 3000 VSD+ specifically for massive flow industrial applications.

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Atlas Copco

Atlas Copco Vacuum Technique

Great ideas accelerate innovation. At Atlas Copco Vacuum Technique we collaborate with our customers to turn industrial ideas into leading edge technology in vacuum and abatement solutions. Our passionate people, expertise and service bring sustainable value to industries everywhere. Atlas Copco is based in Stockholm, Sweden with customers in more than 180 countries and about 53 000 employees. Revenues of BSEK 173 in 2023.

At Atlas Copco **Industrial Vacuum,** we have revolutionized vacuum technology. Our state-of-the-art vacuum pumps and systems exemplify today's connected and digitalized industry. Our teams of exceptional and passionate people engineer customer-centric vacuum solutions that offer better energy efficiency, consumer safety, improved productivity and a sustainable future. Our products are the invisible force that drive all industrial applications and manufacturing. We are headquartered in Cologne, Germany with production centers in Germany, France, Belgium, Czech Republic, the United States and China.