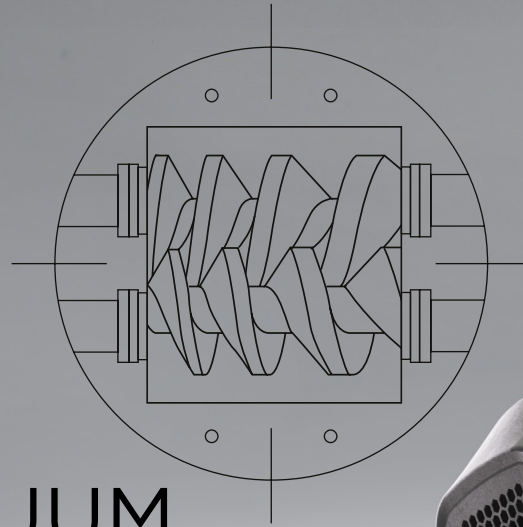
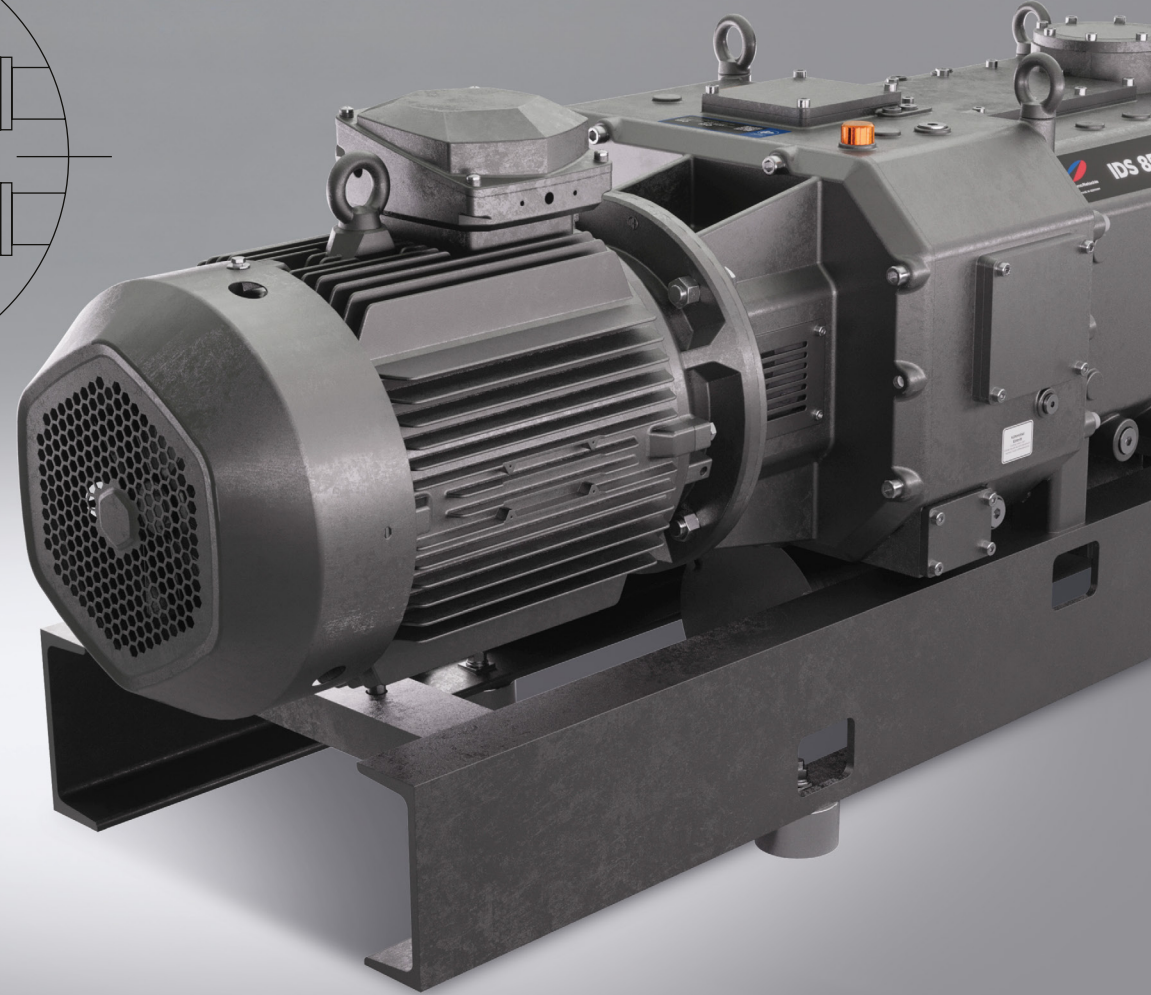




IDS DRY SCREW VACUUM

OIL-FREE VACUUM FOR DEMANDING APPLICATIONS

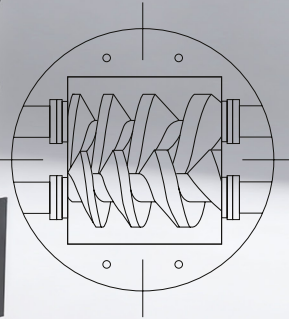


OIL-FREE PERFORMANCE. **ENGINEERED FOR YOUR PROCESS**

The IDS Dry Screw Vacuum Pump delivers reliable, energy efficient performance for process critical applications where cleanliness, uptime, and operating cost matter most.

Anti-condensation design

Wide operating range



Built for continuous duty

Designed for reliability

Valve-free compression design ensures stable operation.

Dust tolerance



**Oil free
dry screw
technology**



**Up to 50%
lower energy
consumption**



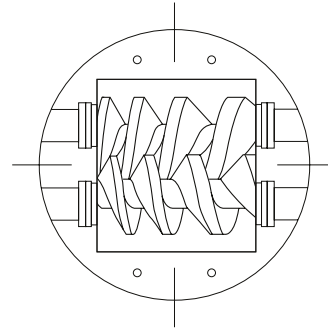
**Up to 40%
lower total cost
of ownership**



**Flexible
system
integration**



REAL INDUSTRIAL CONDITIONS REQUIRE A DIFFERENT APPROACH



In real industrial processes, gases do not stay “clean”:

- Vapours can condense or form solids
- Deposits build up inside valve mechanisms
- Traditional unloading valves can become unreliable

IDS eliminates this risk with a valve-free compression design



Food & beverage

- Freeze drying (food and pharmaceutical)
- Beverage bottle filling
- Drying and process vacuum



Glass coating

- Architectural Low E
- Automotive coating
- PVD and sputter coating
- Load lock and unload lock chambers



Electronics & coating

- Electronics manufacturing
- Vacuum coating and metallising
- Clean process vacuum environments



Materials & advanced manufacturing

- Selected metallurgy and materials processing
- Engineered OEM vacuum systems



TECHNICAL EXCELLENCE IN A DRY SCREW VACUUM PUMP

As part of Elmo Rietschle's screw vacuum pump portfolio, the IDS is engineered for applications requiring clean operation, high efficiency, and long term reliability.



Advanced screw profile design

Precision machined screw geometry ensures high pumping speed and deep ultimate vacuum across a wide operating range.



Integrated variable speed drive (VSD)

Integrated VSD matches pump speed to demand, reducing energy consumption by up to 50%.



Low internal temperatures

Optimised screw pitch reduces internal heat, enhancing component life and enabling reliable continuous operation.



High mechanical stability

Shaft support bearings on both ends ensure robust performance under sustained industrial duty.



Air or water cooled motor options

Standard water cooled configuration; air cooled available on request.

TECHNICAL OVERVIEW

The IDS is engineered for continuous industrial operation, combining robust mechanical design with high energy efficiency and predictable operating behaviour.

NOTES:

1. Measurement Standard: ISO21360 2:2012(E)
2. Pumping speed measurement based on ISO21360 2:2012(E)
3. Noise Test Standard: ISO2151:2004
4. Rated motor power based on altitude below 1000 metres
5. Refer to assembly drawings for dimension and connection details

	MAX. PUMPING SPEED m ³ /h	MAX. PUMPING SPEED ft ³ /min	ULTIMATE VACUUM mbar	MOTOR POWER kW **	MAX. ROTATION SPEED rpm	MOTOR TYPE	MOTOR COOLING METHOD *	CONTROLLER	UNIT DIMENSIONS (L × W × H) mm	INLET INTERFACE (FLANGE)	OUTLET INTERFACE (FLANGE)
IDS 850	810	476	0.03	18.5 / 22	3000	Fixed	Air Cooling / Water Cooling	-	1700×650×750	ISO100	ISO65
IDS 1100	1030	606	0.003	18.5 / 22	3600	Variable	Air Cooling / Water Cooling	-	1700×650×750	ISO100	ISO65

	TOTAL WEIGHT kg	COOLING WATER SUPPLY PRESSURE barg	COOLING WATER FLOW L/min	COOLING WATER TEMPERATURE °C	COOLING WATER INLET AND OUTLET DIMENSIONS	N ₂ SUPPLY PRESSURE barg	N ₂ INLET DIMENSION	NOISE dB(A)	TEMPERATURE °C	EXHAUST BACK PRESSURE mbar(g)
IDS 850	909	-	15-20	5-35	G1/2"	-	-	80 ±3	5-46	200
IDS 1100	909	-	15-20	5-35	G1/2"	-	-	80 ±3	5-46	200

* Air and water-cooled motor options are available for both models.

** IDS 1100 is available with 18.5 kW or 22 kW motor. A 22 kW motor is recommended for improved performance in rough vacuum conditions.



AFTER-SALES SUPPORT

RELIABLE PERFORMANCE BEYOND THE PRODUCT



Preventative and scheduled maintenance programs ensuring reliable operation.



Genuine spare parts to maintain performance and durability.



Expert service support and on-site technical assistance.



Professional training for operators and maintenance teams.

The IDS Dry Screw Vacuum Pump delivers reliable, energy-efficient performance for process-critical applications where cleanliness, uptime, and operating cost matter most.

DISCOVER
THE IDS DRY
SCREW VACUUM
SOLUTION.

