



BS-DH Series Oil Free Screw Blower



Ingersoll Rand

Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to Making Life Better for our employees, customers, shareholders, and planet. Customers lean on us for exceptional performance and durability in mission-critical flow creation and industrial solutions. Supported by over 80+ respected brands, our products and services excel in very complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity, and efficiency. For more information, visit www.IRco.com.

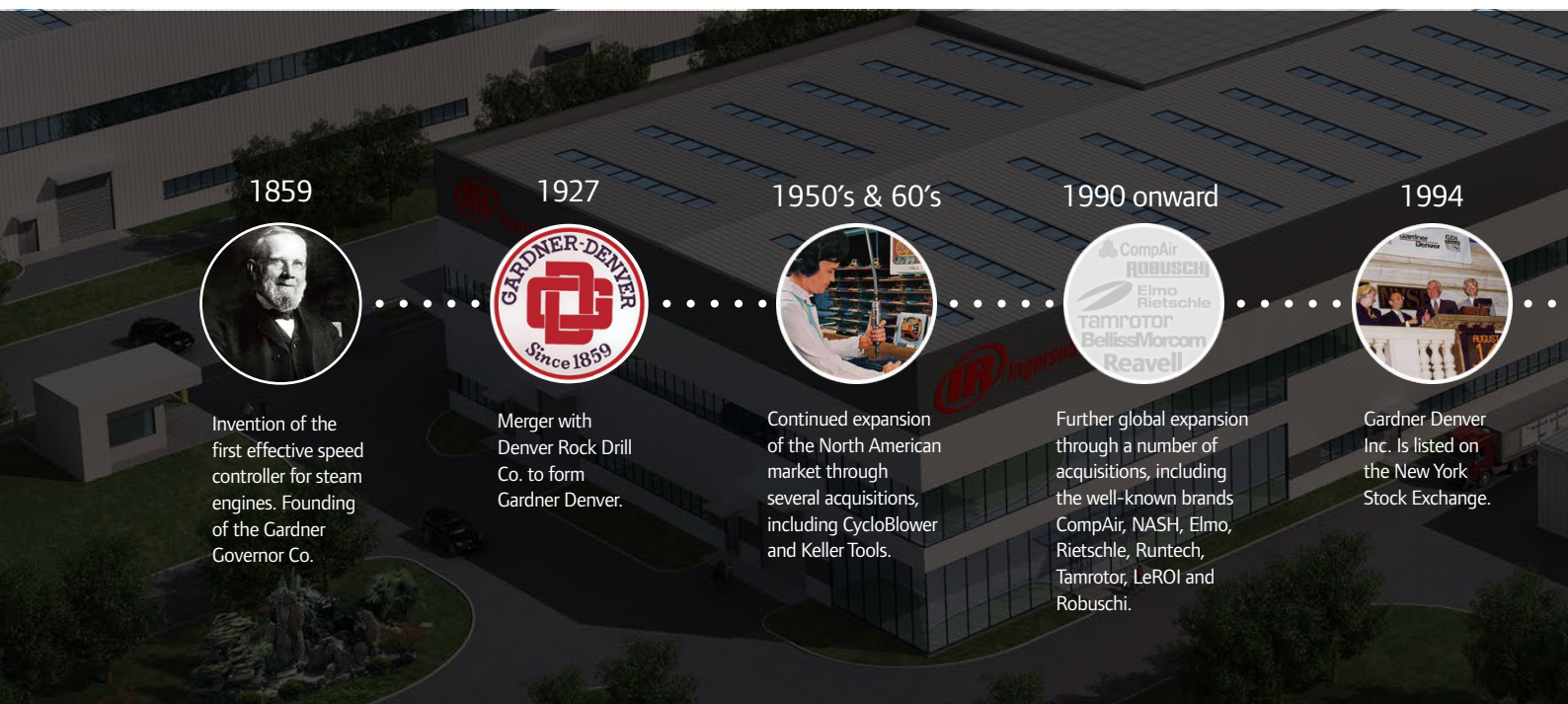
Ingersoll Rand's brands include Ingersoll Rand, Gardner Denver, Elmo Rietschle, Robuschi and dozens of other well-known enterprises in the field of air compressors, blowers and vacuum pumps.

Gardner Denver

Founded in 1859, Gardner Denver focuses on developing innovative products and engineering solutions that solve operational challenges for our customers. With global collaboration, strong customer service and in-depth expertise, we offer reliable, energy-efficient equipment for a wide range of manufacturing and process applications. As of March 1, 2020, The Ingersoll Rand Industrial segment was formally merged with Gardner Denver to form the new Ingersoll Rand.

Now, as a larger and stronger company, we can further provide you with more comprehensive solutions and a broader portfolio of products and services. The new Ingersoll Rand is driven by an entrepreneurial spirit and an ownership mindset to make life better for our customers, employees, and those around us.

The Gardner Denver blower product line is founded on the design, manufacturing and operating superiority of both Ingersoll Rand Industrial segment and Gardner Denver and is customized for water, food, medicine and other industries by stringent engineering design, quality control and comprehensive total after-sales service solutions with unparalleled competitiveness.

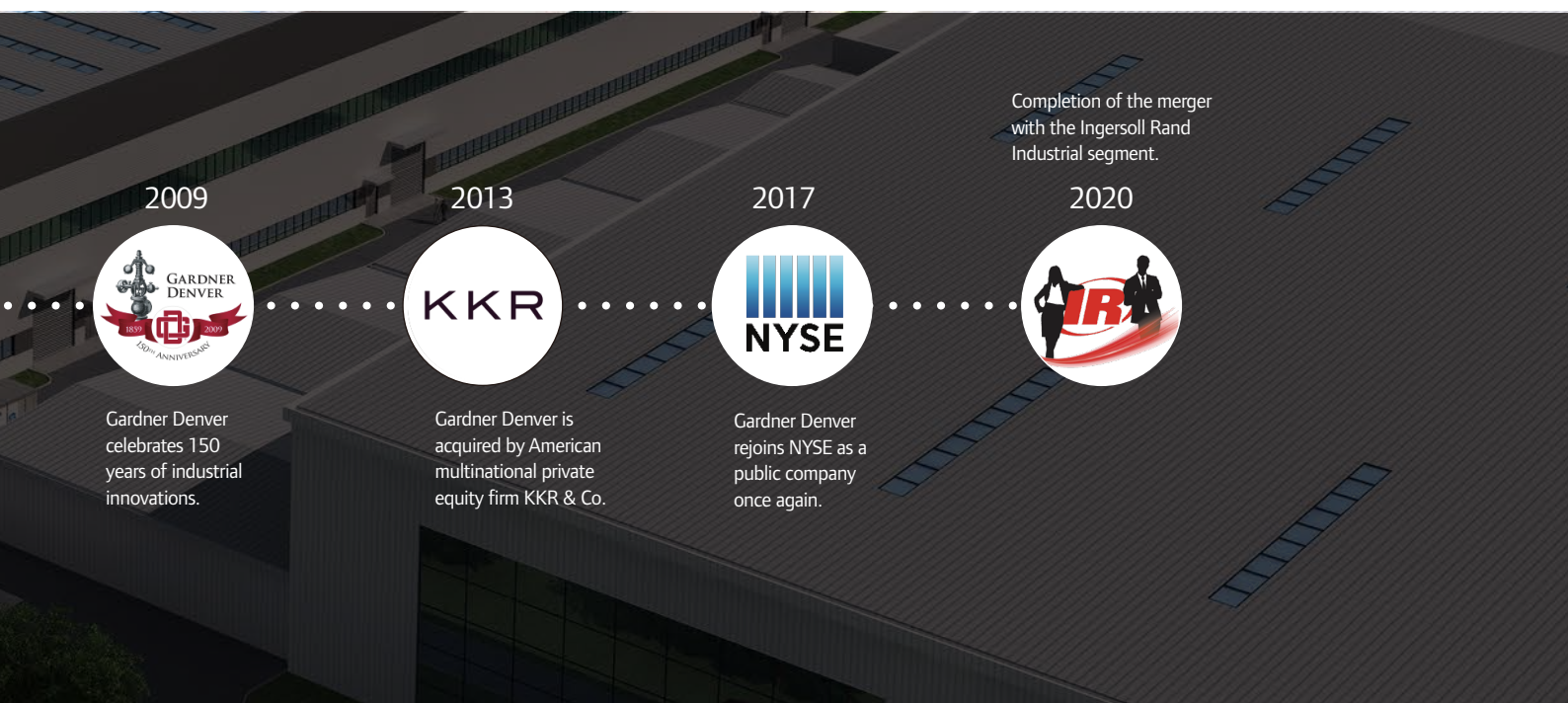




The Asia Pacific production facility for the GD blower product line is located in the Ingersoll Rand Wujiang Industrial Park, which was completed in 2008. It is one of the biggest investments made by the Ingersoll Rand Industrial segment worldwide with a land area of 230,000 sqm, building area of 91,000 sqm and over 700 employees.

As a world-class integrated enterprise, the Wujiang plant is committed to providing superb quality products to our customers by adhering to the best customer experience, excellent manufacturing process, world-leading product quality, continuous improvement and high employee satisfaction.

The production, quality inspection and control of all products are completed in Ingersoll Rand Wujiang Industrial Park, where onsite supplier evaluation, component approval process, incoming quality control, warehouse inventory management, production & manufacturing process, testing & inspection, finished product quality control, outgoing quality control and warranty is in strict compliance with the quality control process of Ingersoll Rand Wujiang plant.

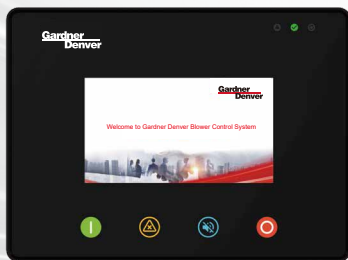


Features



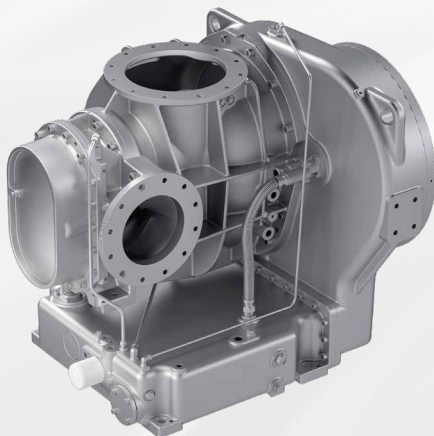
Inlet Filter

- Imported synthetic fiber material
- Filtration efficiency 99.9% @ 3μm particles



Intelligent Controller

- Real time monitoring
- Early warning of malfunction
- Cloud storage
- IIoT management



Superior Air-end

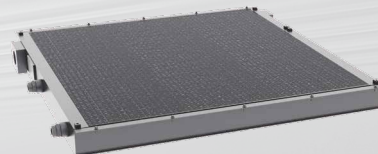
- Professional oil-free screw technology, highly integrated design
- Compact structure and excellent performance





Intake Valve

- Automatic opening and closing to avoid overload
- Energy saving
- Environmental protection
- Safe and reliable



Air-cooled Unit



Water-cooled Unit

Oil Cooler Heat Exchanger

- Optional air/water-cooled configuration
- Good cooling effect for water-cooled unit due to not easy to be clogged suitable for hard water
- Compact design for air-cooled unit and easy to use

Patented Designed Silencer

- Durable and Robust
- Excellent muffling effect on low and medium frequency noise.



Tackling Pain Points in Your Process

Flow Control: Most process require the flow to vary at some point to allow it to be adjusted according to the operating conditions.

- ▶ With a wide control range under variable operating conditions, the BS-DH series can provide the desired flow in different phases of the process. The BS-DH series is a highly efficient machine with a wider flow control range when compared with centrifugal blowers and screw blowers cannot have the possibility of surge damage. It has better efficiency than a reciprocating blower.

Clean & Oil-free: This is an important feature in food, pharmaceutical and other industries which have higher requirement for compressed air quality.

- ▶ Oil-free design - Delivering Class 0 oil-free compressed air .
- ▶ High filtration accuracy under imported synthetic fiber material filter can bring clean air guarantees safe and reliable processes.



The BS-DH series is designed right from the start and developed to effectively resolve the challenges of the application!

Applications

With max. pressure up to 3.5 bar(g) and max. flow rate of 9,300m³/h, the BS-DH series can meet the demands of most processes and can also be widely applied in fermentation, dense phase pneumatic conveying, mineral flotation and other processes.



Pneumatic Conveying



Flue Gas Desulfurization



Air Lubrication System



Fermentation



Mineral Flotation

Performance Parameters

	BS-3DH		BS-4DH		BS-5DH	
	Fixed speed	VSD ⁽³⁾	Fixed speed	VSD ⁽³⁾	Fixed speed	VSD
Max. pressure bar(g)	1.25~3.5				1.25~3.0	
Rated air capacity ⁽¹⁾ m ³ /min	25~53	15~53	50~80	25~80	80~152	34~152
Power Range kW	90~160		132~315	160~315	315~560	
Voltage ⁽²⁾ V	400		400/6,000/10,000	400	400/6,000/10,000	400

(1) Air capacity is tested under 1 standard atmospheric pressure and at 20°C

(2) For other voltages, please contact our sales representative.

(3) Permanent magnet synchronous motor is standard equipment for BS-3DH and BS-4DH.

Multiple Configurations:

- More options to meet site and application requirements.
- Fixed frequency units include multiple pairs of optional gear sets to help match demanded air flow.
- Ducted air intake forms are optional.

Extended Functions

Non-standard functions customized to meet the demand under various operating conditions.

	Fixed speed	VSD
Power outage restart option (PORO)	✓	✓
Food grade oil	✓	✓
High dust filtration	✓	✓
After-cooler	✓	✓
Outdoor	✓	✓

Please consult our salesperson for more information.

Dimension

	Overall dimensions(mm)			Weight without motor(kg)	
	L	W	H	Fixed speed	VSD
BS-3DH	1,971	2,326	2,072	2,800	2,900
BS-4DH	3,623	2,170	2,357	3,600	3,700
BS-5DH	4,000	2,280	2,400	5,800	6,000



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