The Blower of Choice for Cutting-Table OEMs

Apparel, upholstery, automotive, aircraft, marine, furniture – whatever market you are supplying, a Spencer blower evacuates larger amounts of air to produce the vacuum hold-down required to ensure continuous-duty, maintenance-free precision cutting at lower operating cost.

Expertise for a full range of global markets

For many years, Spencer has been providing blowers to Original Equipment Manufacturers (OEMs) that supply the textile industry. Spencer blowers are now operating worldwide as integral components of cutting tables.

Our design and manufacturing capability means that Spencer's vacuum hold-down blowers can be reconfigured to fit as needed within your table specifications. Our engineering experts understand the textile industry and will work with you to provide the optimum blower for the application.

Built-in Spencer reliability

Spencer has developed its reputation as a premier supplier by specializing in innovative equipment solutions for the most demanding applications. We also have become a leader in our industry by keeping the end user in mind as we design our products.

In short, your customers are our customers. Their peace of mind, and yours, is our goal.

Since your customers don’t make money when their equipment isn’t running, we’ve made sure our blowers – an integral component in cutting-table operation – are reliable and durable. You get dependable performance when you select a Spencer blower. Every cut of every material is handled with the vacuum hold-down your customers have come to expect from your brand.

More choices for multi- and single-ply cutting

Spencer blowers enhance OEM cutting table performance, regardless of whether the material is woven or non-woven. Canvas, Naugahyde, polyester, PVC, PTFE coated fiberglass, sail cloth, screen, vinyl, webbing, or any other multi-ply or single-ply material – it doesn’t matter.

Considerations such as the square footage of the table, the layout of the blower holes, and the type of material to be cut and handled have direct impact on the amount of vacuum hold-down required. A complete line of blowers ideally suited for vacuum hold-down applications ensures that Spencer has the right equipment to handle your specification – and if the table size requires a compact footprint, the blower can be reconfigured so that it can fit into a tight space or else installed in an adjoining machine area.

Available Spencer manufactured vacuum hold-down blowers:

Four Bearing Overhung (4BOH-BD) multistage centrifugal blowers have been accepted by cutting-table OEMs for years as the solution that meets their needs. These blowers feature impellers mounted on the blower shaft coupled to a standard shaft motor. Rotating elements up to 5000 rpm are supported by a rigid bearing bracket. The 24" 4BOH-BD blower solution is belt driven to help control the speed of the motor with performance up to 6 inHg (152.4 mmHg) vacuum and 1750 scfm (2973 m³/hr).

The Standard Overhung (SOH) multistage centrifugal blower design is one of Spencer’s most proven and reliable blower solutions. Its simplified construction, with impellers mounted directly on a heavy-duty extended motor shaft, means compact, low-noise performance up to 8.5 inHg (215.9 mmHg) vacuum and 3500 scfm (5947 m³/hr). When operating with a Variable Frequency Drive (VFD) higher and variable extended volume ranges are achieved as needed.

Spencer Vortex® regenerative blowers are compact and like the SOH design do not require belts or pulleys so they fit within even the tightest cutting-table footprints. Their continuous duty delivers clean, oil-free air and pulsation-free operation. With in-stock availability as well, these energy-efficient blowers produce a vacuum range from 1.5 inHg to 7.3 inHg (38.1 mmHg to 185.4 mmHg) up to 675 scfm (1147m³/hr).
These lightweight, simple construction, low horsepower vacuum hold-down blowers, are ideally suited for VFD operation providing a wide and variable performance range. In addition, the Spencer Vortex regenerative design includes a single-sided impeller that makes these extremely quiet blowers the lower-volume choice for industrial textile applications.

In addition, the Spencer Vortex regenerative blower motor is NEMA/IE2 rated for dual frequency, 50 Hz and 60 Hz.

Whatever Spencer blower goes into the cutting table, the advantage is fast and high-quality cutting, ensured repeatability, and reduced waste and production costs.

**Additional equipment helps keep environments safer**

When some textile materials are cut, there can be the risk of toxic emissions. Certain materials such as polyester are especially problematic. Spencer can work with customers on exhaust systems to remove hazardous particles, smoke deposits and processing residue.

Spencer can provide a material handling fan (MHF) along with cutting-table blowers to exhaust these emissions and enhance workplace safety.

**Support for plant-wide vacuum requirements**

Spencer is known for its expertise in vacuum system design and can also provide central vacuum cleaning systems to meet plant-wide objectives. These include the good housekeeping practices that result in cleaner working environments, as well as bulk material conveying, recyclable material collection, toxic waste removal, spill pickup and disposal, vacuum pickup in manufacturing operations, and machine-side dust and fume collection.

**Global operations provide total support**

Spencer maintains an in-house research and testing laboratory where experts conduct application studies, product development, and testing programs to ensure customers can take advantage of the latest technologies available. Spencer engineers respond to specific customer requirements to develop the best product choices.

With a well-earned reputation as a leading company for vacuum hold-down solutions, Spencer has more than a century of experience. Innovation goes into every blower designed and manufactured for textile-cutting tables, which means cost-effective, reliable performance with minimum maintenance. Spencer is positioned around the world to offer more equipment choices for the widest range of precision textile cutting and handling needs.

Learn more about how a Spencer blower solution can improve your product’s performance. Email marketing@spencer-air.com or visit www.spencerturbine.com to locate a Spencer representative.

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**Vacuum Hold-Down Blower Performance Range**

Air at 68 °F (20 °C)
Relative Humidity 36%
Discharge Pressure 14.7 psia (101.3 kPa)

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<th>Volume - scfm</th>
<th>Volume - m³/hr</th>
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<tbody>
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**Vacuum Hold-Down Blower Performance Range**

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The Spencer Turbine Company
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www.spencerturbine.com
The 200,000 sq. ft. Spencer headquarters in Windsor, Connecticut USA houses the product design, R&D and testing operations and manufacturing facilities for Spencer blowers, vacuum systems and electrical control panels, plus administrative, sales and engineering offices.

Spencer Products and Services

**Industrially rated products offering effective solutions for air and gas handling problems**

- Custom-engineered blowers with special materials for extreme temperatures and pressures
- Hermetic Gas Boosters
- Multistage centrifugal blowers
- Single-stage centrifugal blowers
- Regenerative blowers
- High-speed turbo blowers
- Modular central vacuum systems
- Mobile or stationary integrated vacuum units
- Separators and dust collectors

**Comprehensive engineering and other customer support services**

- The industry’s largest complement of technical specialists in air and gas technology
- Worldwide parts and service organization
- Application research and testing facility

**Global organization offering**

- Product selection, installation and operation assistance
- Comprehensive system design services
- Follow-up services and troubleshooting

Rely on Spencer’s unique Engineering Edge to make your equipment special and your process work – no matter how demanding your requirements.

For product selection assistance, please email marketing@spencer-air.com or visit our website at www.spencerturbine.com to locate the Spencer representative in your area.

Complementary accessories with single source convenience and compatibility

- Standard and custom electrical control panels – UL, CUL Listed and CE compliance available
- Valves, gauges, couplings, shrink sleeves, vibration isolators and other system components
- Comprehensive selection of tubing, fittings, vacuum hoses, valves and tools

Vortex® is a registered trademark of The Spencer Turbine Company.

Blowers and Vacuum Systems with an Engineering Edge

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