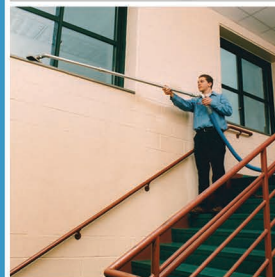


Spencer[®]

Industravac[®]

Vacuum Cleaning Systems
Series A, B, C, D and V



**The Industrial Workhorse
for Today's Cleaner World**

Continuous duty vacuum systems for safe, efficient clean-up and superior product quality

The Spencer Turbine Company applies an innovative approach to a range of problems affecting indoor air quality (IAQ); manufacturing and production; and worker safety. Whether you're cleaning up potentially explosive dust, metal shavings, food ingredients, sawdust, powder paint, talcum powder, coal, or everyday grit and grime, it's a dirty job.

And in today's world – with tighter regulations and stricter codes for healthier, safer building environments – the more efficiently you can do all of this, the better for your operations.

Proven reliability, from the vacuum industry's legendary experts

Across the globe, in thousands of installations in all kinds of facilities, running for millions of hours, Spencer's Industravac vacuum cleaning systems have proven their reliability. Whether for high-velocity dust collection, dirt and debris pickup, clean room control, in-process scrap collection, general house-keeping, production vacuum, metal chip or other types of material collection, this industrial vacuum workhorse can meet the challenge. Spencer's legendary reputation for quality and reliability goes back to its first vacuum system in 1905.

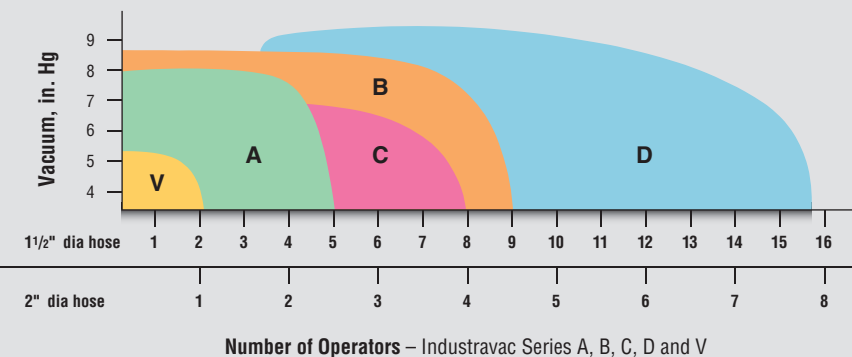
When downtime is not an option and resources are limited, crews need vacuum cleaning equipment solutions they can depend on – so they can get on with the job. Spencer has a legendary reputation across so many industries because the products have a global track record of durability, dependability and quality. The Industravac Series is ideally suited to tough clean-up challenges because it is low maintenance, easy-to-use and designed for optimum performance levels without compromise.

Design flexibility complements facility layout and preference

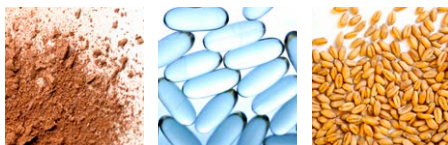
To pick up dirt, debris, grinding dust or any other material, the Industravac Series offers a variety of rugged models for almost any facility layout or requirement. Stationary models can be connected to tubing and fittings for the ultimate central vacuum cleaning system with many hose connections or just a few. If preferred, mobile models provide flexibility to enhance convenience for cleaning crews.

For information on options such as HEPA filtration, explosion relief vent and other customizable components, contact your local Spencer sales representative.

Industravac® Performance

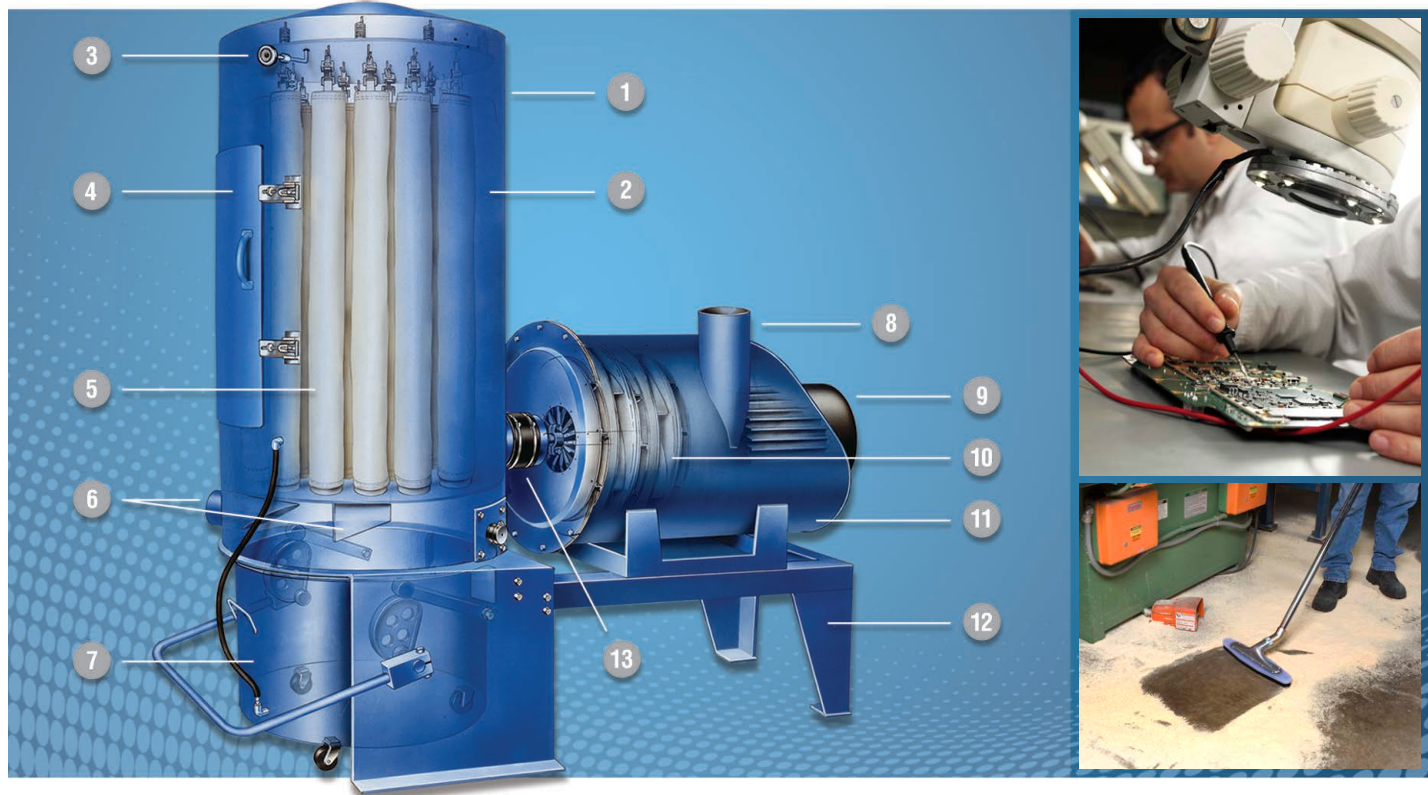


The Industravac Series A, B, C and D cover broad ranges of vacuum suction from 4 in. Hg. to 9 in. Hg., and can accommodate simultaneous operator requirements up to 16. For smaller scale cleaning, the Series V offers excellent performance range and incorporates Spencer's Vortex® regenerative blower. The Vortex blower's compact size, low noise and reliable operation make it ideal for use when located close to work areas. The entire Industravac Series is robust and engineered for continuous duty.



Spencer design and manufacture mean high quality, efficient operation

This diagram illustrates how this reliable product provides the industrial strength cleaning power you need:



- ① Continuous welded heavy-duty steel construction ensures high strength and long-life for all vacuum system components.
- ② Two-stage tubular bag separator has a mechanical primary section and a filter bag secondary section for efficient and effective vacuumed material separation. Optional Jet-Clean® design with filter bags or cartridges.
- ③ External manual bag shaker allows convenient manual cleaning of filter bags with door closed (optional motorized bag shaker available).
- ④ Large rectangular hinged door gives easy access to filter bags for inspection and for replacement when needed.
- ⑤ Multiple inverted filter bags have large surface area to trap fine dust with up to 99.9% efficiency. Standard filter bags are made from cotton sateen with optional materials available.
- ⑥ Patented separator inlet with abrasion-resistant, easily replaced target plate which diverts material directly into dirt can for collection. Series A, B, C, D and V models have auxiliary inlet valve on opposite side; inlet locations may be repositioned based on piping convenience.
- ⑦ Cam-operated, caster-mounted steel dirt can for debris collection is easily wheeled aside for emptying and reinstalled using lift-cam action lever.
- ⑧ Upblast exhaust tubing on Series A, B, D and V models will accept optional HEPA filters, air noise silencers and weather caps (Series C has patented bottom exhaust with built-in silencer for outdoor installation).
- ⑨ Series A, B and D supplied with ODP continuous-duty 3500 rpm, 60 Hz induction motor with ball bearings for long life, low maintenance (50 Hz, TEFC or XP motors available; Series C and V supplied with TEFC motors (other types available as options).
- ⑩ Multistage centrifugal vacuum producer has simple direct drive without belts, pulleys or couplings. Series V is equipped with a Vortex® single-stage regenerative vacuum producer.
- ⑪ Spencer housing design with distinctive sugar scoop® reverse-curved casing.
- ⑫ Fabricated steel machine frame; Series V has built-in tray to hold accessories.
- ⑬ Direct connection between vacuum producer and separator minimizes friction loss. Optional HEPA filter can be mounted in-line between the vacuum producer and separator.
- ⑭ Catalyzed epoxy primer and urethane top coat withstand tough environmental conditions.

Industravac: Designed for every application



Industravac A	Industravac B	Industravac C	Industravac D	Industravac V
Multistage Centrifugal	Multistage Centrifugal	Multistage Centrifugal	Multistage Centrifugal	Vortex Regenerative
Standard Overhung Direct Drive	Standard Overhung Direct Drive	Standard Overhung Direct Drive	Standard Overhung Direct Drive	Single Stage Direct Drive
5, 7½ or 10 HP	10, 15 or 20 HP	10, 15, 20 or 25 HP	25, 30 or 40 HP	4, 5 or 7½ HP

For specifics on an individual Series, refer to the technical data sheet (TDS) for that Series.

The Industravac Series is the best way to a cleaner, healthier environment for today's world - the Spencer way

The Industravac Series is the ideal central vacuum system, whether the need is to pick up debris and material from carpet, tile, wood or cement floors, keep machinery crevices or tight spaces around sensitive equipment in clean rooms free of dust, or remove potentially hazardous materials from ledges, beams and other surfaces in shop environments.

This industrial workhorse is specially designed to be cost-effective and worry-free. With full support from product selection through system layout to onsite startup, Spencer's experience in central vacuum cleaning design and manufacturing is an advantage – no matter the application or market.





Optimize applications with a custom Industravac system

Customize your system when applications involve combustible dust, extra or demanding filtration requirements, or unique facility layouts. Contact a representative to see how Spencer can make a standard Industravac special:

- Explosion-proof motors and controls
- Explosion-relief vents
- Grounded filter media and lug nut
- Jet-Clean® separator with timed air-pulse cleaning
- Automated shaking of filter bags
- HEPA filters
- Multiple inlet manifolds to handle additional operators
- Level switch for dirt can
- Differential pressure gauge

Spencer accessories complete the system

Spencer tubing and fittings, hoses, tools and accessories complete the Industravac system. The anodized aluminum and chrome-plated steel wands, forged brass inlet valves with nickel plating, special-duty tools for cleaning everything from rough concrete floors to laboratory shelves, machinery crevices, auto upholstery and overhead pipes can be provided. Spencer metal tubing is available in carbon steel, stainless steel, galvanized steel and aluminum, and diameters from 2 1/8" to 14" with companion fittings for every system layout. Accessories from Spencer ensure consistent quality control and parts availability.

Spencer hoses and tools help reach all pick-up points effectively and efficiently and are available for bare floors or carpets. The correct hand tools, wands or wall handles, or elbow joints and hose connectors complete the job, and hangers and tool carts keep everything organized.



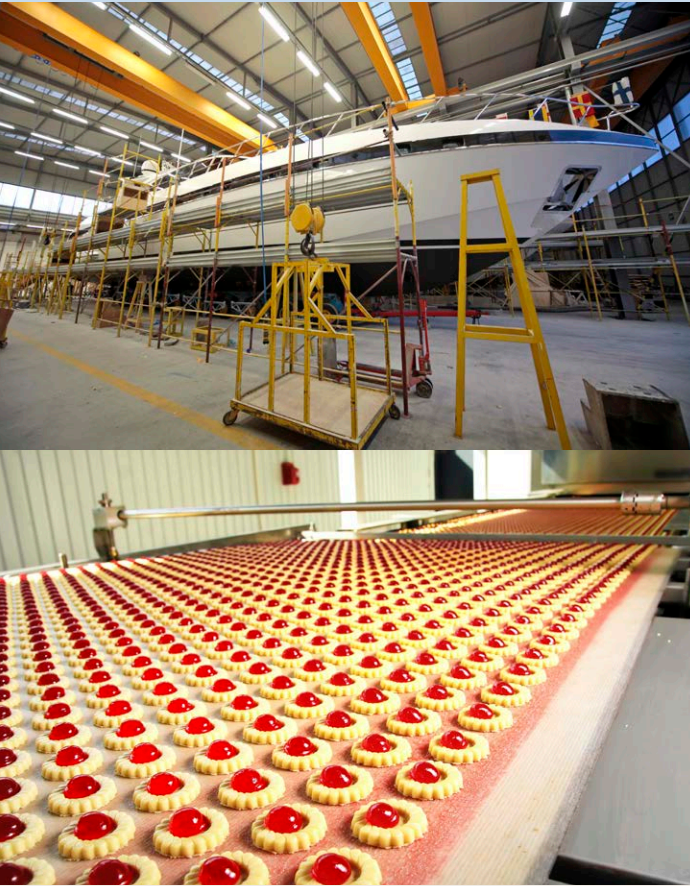
Worldwide support and expertise

Local technical representatives and in-house engineering work together to meet your requirements

Spencer provides vacuum cleaning equipment solutions anywhere in the world. Authorized local sales representatives and in-house engineers work as a team to evaluate applications and provide the right vacuum equipment solution.

Our highly skilled Spencer-trained sales representatives help you consider: proposed number of operators; hose size; types of applications; the characteristics of the material being picked up; facility layout; equipment location; tools required; and more.

Based on this input, the experienced Spencer engineering team reviews and analyzes product features and provides the equipment solution suited to the specific application. Spencer representatives are also available during installation, start-up and operation.

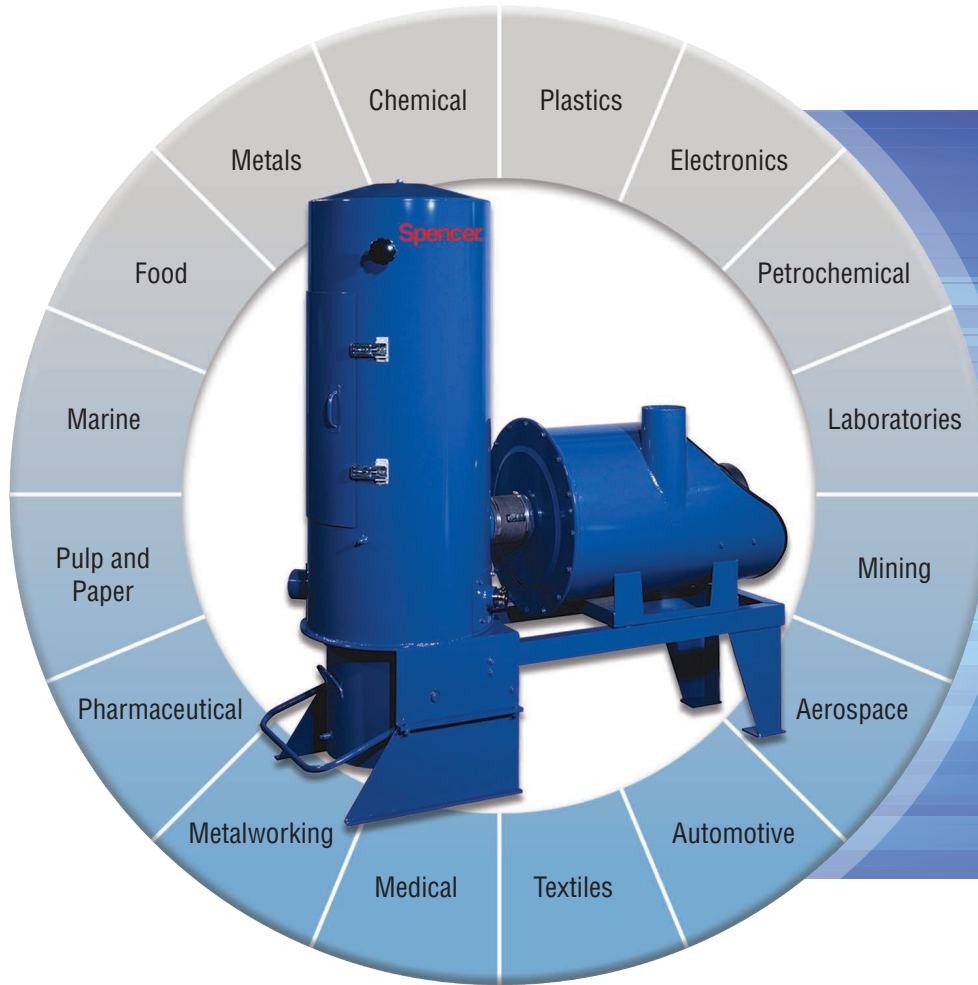


Typical Industravac applications

- High-velocity dust collection**
- Dirt and debris pickup**
- Clean room contamination control**
- In-process scrap collection**
- General cleaning**
- Production vacuum**
- Airborne materials capturing**
- Car, bus and train maintenance cleaning**
- Sanding and grinding dust removal**
- Floor, wall and ceiling cleaning**
- Metal chip collection**



Major industries served



Toxic Waste Removal

Recyclable Materials Recovery

Cleaner Environments

Liquid Pickup

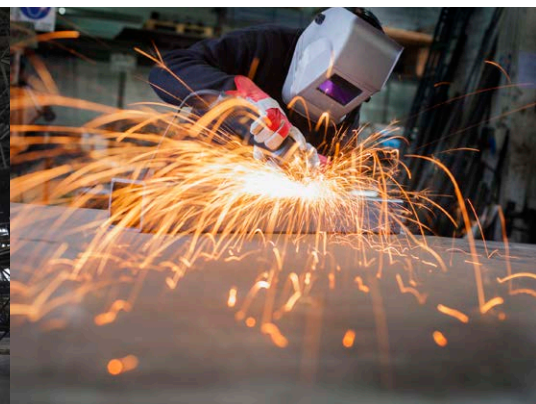
Facility-Wide Solutions

Air Quality Management

Employee Safety

Manufacturing Efficiencies

Multiple Operator Capabilities





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

- Modular central vacuum systems
- Mobile or stationary integrated vacuum systems
- Dust collectors and separators
- Multistage centrifugal blowers and vacuum producers
- Single-stage centrifugal blowers and vacuum producers
- Regenerative blowers and vacuum producers
- Hermetic blowers and vacuum producers
- High speed turbo blowers
- Custom-designed products with special materials for extreme temperatures and pressures

Complementary accessories with single source convenience and compatibility

- Standard and custom electrical control panels – UL, CUL Listed and CE compliance available
- Dissolved oxygen control systems
- Comprehensive selection of tubing, fittings, vacuum hose, valves and tools

- Valves, gauges, couplings, shrink sleeves, vibration isolators and other system components

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 of sales representatives and distributors offering

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

In Australia, for product selection and sales assistance, please contact:

Pneuvay Engineering

5-7 Louvain Street, North Coburg, Victoria Australia 3058

Freecall: 1800 786 642 ♦ Ph: +61 (03) 9350 6888

Fax: +61 (03) 9354 4365

Email: sales@pneuvay.com.au ♦ www.pneuvay.com.au

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Blowers & Vacuum Systems with an Engineering Edge

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