



SpaceVac High-Level Cleaning Systems
USP's and Advantages of Use

Innovation not Imitation

SpaceVac offers operators numerous advantages compared to the traditional methods of cleaning high-level areas which has seen it rapidly become a firm favourite with cleaning companies and facilities managers throughout the world, and across a range of business sectors.

The system also however, offers a number of key advantages to users unavailable on other high-level systems promoted elsewhere on the market.

This document outlines some of the key differences and unique qualities of SpaceVac that make it the world's leading manufacturer of high-level cleaning system to equip with your team with the knowledge needed to promote and inform clients of the benefits that can be enjoyed with the introduction of SpaceVac.

Be sure to book a demonstration on your premises today to see the system in action for yourself or alternatively, please visit our website to find more information - spacevacinternational.com.

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The SpaceVac 2019 Line

Pole System:

Our range of cleaning systems has expanded to provide a unique range of products and systems - each utilising variants of our cleaning pole technology.

Across the range we offer a number of options for pole systems to provide a range of solutions for operators with differing operational requirements and budgets.

Internal Cleaning Poles

Our Internal cleaning range features four unique pole sets for operators at different levels.

Our entry level LITE system provides a budget conscious solution for operators with occasional / light high level cleaning requirements above head height.

Our Classic 38mm poles offer up to 11m of reach from the safety of the ground floor and is our most popular pole set in the line.

For advanced and heavy duty users, our Internal range features two power systems in the form of our 38mm Pro poles - which feature advanced carbon weave technology, reduced weight and flex and a new Matt black finish to allow operators to reach up to 15m in height - while our 38mm Ultra system, is built on a unique 5k Carbon weave, to give our strongest, lightest, most durable pole yet - offering operators up to 20m of reach from the safety of the ground floor.

External Cleaning Poles

Our external cleaning system features a wider 50mm variant of our cleaning poles to allow for greater airflow and

fewer blockages when cleaning the kind of heavy-duty blockages often found in external guttering and downpipes. Meantime - by use of our unique 38mm/50mm adaptor - Universal system operators, can take our External cleaning poles inside to use the same system in both environments.

ATEX Cleaning Poles

Our ATEX cleaning system features a range of full carbon counterparts to the pole systems found in our Internal line.

This range features entry level systems in the form of the ATEX LITE and ATEX Pioneer poles, while our 38mm Pro and ultra deploy full carbon versions of our uniquely engineered cleaning poles to reach 15m and 20m respectively.

Rounding out the ATEX range is our brand new 50mm ATEX Pro line, which has been designed for users working in heavy duty explosive atmospheres where materials such as wood, paper or cardboard are produced or handled.

Specialist Systems

in addition - our new 2020 range of cleaning systems features 2 brand new cleaning poles - a full carbon, colour co-ordinated Food Safe system for use in Food production areas and our new signal red HIGH VOLTAGE poles - designed for use in extreme, high-voltage areas such as trackside work. These poles have been independently tested and verified as being able to withstand 50,000 volts.

An Introduction to Carbon Fibre Engineering:

A **unidirectional weave** creates a carbon fiber sheet that's very strong in the direction of the fibers, but weak in the opposite direction. Plain and twill weaves, on the other hand, have more uniform strength since they're strongest at the points where the fibers cross in either direction.

3K means there are 3,000 filaments per "tow". **12K** means there are 12,000 filaments per "tow". Currently, UD and 3k weave are more and more popular, but the difference is not only cosmetic. Most of customers are confused which weave is more stronger.

12K means there are 12,000 filaments per "tow" and **3K** means there are 3000. The tow can be conveniently unwound from the reel for use. Each carbon filament in the tow is a continuous cylinder with a diameter of 5-8 micrometers and consists almost exclusively of carbon. Carbon Fiber tows.

Before carbon fiber becomes carbon fiber, it starts as a base material— usually an organic polymer with carbon atoms binding together long strings of molecules called a **polyacrylonitrile**.

Our Safety Locking Mechanism Explained...

The importance of a method to secure the poles and accessories together and prevent separation is paramount for more reasons than you may think!

As well as the danger of injury from falling objects, the inconvenience of having parts of the system literally 'falling apart' is going to cause you delays and lead the operator to possibly just 'give up' - meaning businesses are unable to take advantage of the many benefits of using SpaceVac onsite.

In addition to the financial benefits or the satisfaction of a job well done, quickly and easily cleaning with SpaceVac means minimal disruption to the areas which would normally be forced to shut down for hours or days to enable access by Mobile Elevating Work Platforms [M.E.W.Ps for short]. This impact on production can quickly lead to significant reductions on revenue.

So why else would you need to guarantee that your high reach cleaning equipment will not come apart during use? Well, if you happen to be using the very specialised ATEX kit in a Zoned, explosive atmosphere then it becomes a lot more of a serious problem. So much so in fact, that there is a clause in the Atex directive

2014.34.EU, detailing the importance that this cannot happen, excerpt below:

ANNEX II - ESSENTIAL HEALTH AND SAFETY REQUIREMENTS RELATING TO THE DESIGN AND CONSTRUCTION OF EQUIPMENT AND PROTECTIVE SYSTEMS INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

2.1.1.3.

Equipment must be so designed that the opening of equipment parts which might be sources of ignition is possible only under non-active or intrinsically safe conditions. Where it is not possible to render equipment non-active, the manufacturer must affix a warning label to the opening part of the equipment.

If necessary, equipment must be fitted with appropriate additional interlocking systems.

So effectively, if your Atex kit does not securely interlock, as the SpaceVac equipment does by utilising the locking button, then although you may take it into a Zoned area, you cannot use it! Leaving you, again, with a very expensive but ineffective piece of equipment.

So how does separation cause an ignition source? Well, due to the



friction of the materials that are being removed by the air travelling through the vacuum system [rubbing against the poles and hose walls etc.], dangerously high levels of static electricity can build up on the pole system.

This of course would normally be taken away safely to earth via the conductive components and through the specialist vacuum cleaner earth connection. But, if separation were to occur, on the now isolated part of the system, not only is there a dust/air mixture allowed to escape, [providing two out of the three requirements for a fire!] but also the static has lost this direct route to earth and needs to find the easiest path to ground.

This provides an opportunity for the static electricity can bypass the air gap between the separating components resulting in a spark and possible ignition that can cause devastating explosions or flash fires if

the right conditions are present.

There are incidents and accidents the world over every year that cause injury and fatalities due to dust explosions and flash fires.

The risk of using inferior and non-compliant equipment is self evident.

Utilise a SpaceVac; we go HIGHER, we are SAFER, you are FASTER.

Benefits of SpaceVac:



SpaceVac offers operators numerous advantages compared to the traditional methods of cleaning high-level areas:

The Perfect Tool for any cleaning situation

The expansion of our range of cleaning systems means that SpaceVac is able to offer a selection of products; to clients across a range of business sectors, clients purchasing at different price points and for users of different experience.

Higher - the Sky is not the Limit!

The system offers up to 20m reach from the ground floor with additional poles available to add additional reach if required.

Our Pro and Ultra poles utilise advanced carbon technologies to reduce weight and flex for cleaning at increased heights.

Guaranteed Results - Within Reach!

In addition to reaching up to 20m high, our unique locking system means the poles are also safe to use in a downwards direction and even horizontally, with no risk of elements of the system falling from height and causing injury when working at height.

Safer - Built with Safety at Heart

Traditional methods of cleaning high-level areas require users to be at height - at the level of the area to be cleaned. This includes methods such as ladders, scaffolding, cherry

pickers and even abseiling services. By cleaning from the ground floor, SpaceVac ensures there is none of the danger of working at height.

Faster - Get the job done in half the time!

When cleaning from an area such as a scaffold platform, the operator has a limited cleaning span before the platform has to be moved. SpaceVac's simple one man operation enables areas to be cleaned much faster - minimising operational impact and potential downtime.

Cheaper - with a great ROI!

When compared to the hire or purchase cost of access equipment, SpaceVac pays for itself in a matter of days - delivering substantial savings over the [long] lifespan of the equipment.

Pole System:



The **SpaceVac Pole system** offers a number of key advantages over alternative pole systems available elsewhere on the market including:

British Manufacturing

Rather than relying on cheap imported goods, all of our cleaning poles are manufactured here in the UK. This commitment to quality engineering has enabled us to create the best version yet of our high-level cleaning poles.

Unbeaten Build Quality

Durable and hardwearing composite construction ensures poles will stand up to prolonged use - even in heavy-duty conditions with no loss in performance or usability.

S.A.F.E.R.

All of our poles utilise our **Safe and Fast, Easy Release** - safety locking mechanism. This mechanism (unavailable anywhere else on the market) ensures that all of our poles stay together during operation and separate simply when required. This innovation ensures no falling debris landing on operators during use

Consistent Internal Diameter

By providing our poles in standard lengths and sizes the internal diameter of the poles remains consistent throughout the setup. When a telescopic pole is used, the internal diameter reduces at each step. This reduction can affect airflow and can increase blockages.

Lightweight

By utilising such a lightweight composite in our poles construction, the system is extremely light and easy to manage - even at the full 16 metre extension.

In addition by utilising fixed lengths (rather than telescopic poles) you only carry the weight you need to, rather than carrying the full 16m weight with you - even when cleaning at lower levels. When cleaning with a telescopic pole system, users have to hold / carry the entire weight of the pole system, even if they are only potentially cleaning with one or two of the sections extended

Unique Hose to Pole Connection

Our unique locking pole to hose connector ensures that the system does not twist during operation - enabling operators to keep cleans on track at all times.

Half Pole Included

Half pole included to add further reach and configuration options with heads to interconnect and reach over and across obstacles at height.

Heads & Brushes:



Our diverse range of **tools** and **cleaning heads**, offer a number of key advantages over alternative systems available elsewhere on the market including:

Precision Engineering

Where some systems on the market utilise inferior components and cheap flexible plastic, SpaceVacs tools and heads are all made of durable, hardwearing composite (internal) carbon (ATEX) and stainless steel & aluminium (external) to offer long lasting performance under even the harshest conditions.

S.A.F.E.R.

All of our heads, brushes and cleaning tools utilise our **Safe and Fast, Easy Release** - safety locking mechanism. This mechanism (unavailable anywhere else on the market) ensures that all of our heads and tools stay together during operation and separate simply when required. This innovation ensures no falling components landing on operators during use.

Interlocking System

All of our heads, tools and brushes can be interlocked with each other, enabling operators to create bespoke, custom configurations to reach across, over and around machinery and other obstacles as well as reaching into extremely inaccessible areas.

Flexible Range of Brushes

Wide range of dedicated brushes for cleaning specialist items such as ducting, pipework, cable trays and other areas. This range offers flexible solutions to operators - whatever the

setting or cleaning requirement.

S.A.F.E.R.

All of our poles utilise our **Safe and Fast, Easy Release** - safety locking mechanism. This mechanism (unavailable anywhere else on the market) ensures that all of our poles stay together during operation and separate simply when required. This innovation ensures no falling debris landing on operators during use.

Specialist Add-Ons Available

In addition to the standard tools available on each system, SpaceVac can be further accessorised with a range of specialist tools and accessories; from horse hair brushes for use in museums and art galleries to a range of colour-coordinated specialist tools for use in Food production environments.

Bespoke Tools Available on Request

Our engineering team have also created a number of bespoke heads and tools, built to carry out a specific purpose for clients onsite, completely unique to their working environment. From tools to work underneath warehouse racking, to specialist tools utilised in the manufacture of airplane wings, our team can create bespoke tools for any application which is identified.

Accessories:



The SpaceVac system is accessorised in a number of ways to provide key advantages over alternative cleaning systems available elsewhere on the market including:

Camera & Monitor system

Streaming via bluetooth to allow operators to monitor the progress of cleans in real time from the safety of the ground floor. Footage can also be recorded to an SD card to evidence the completion of work.

COMING SOON - ATEX Camera system

In addition to our new PRO camera system, the launch of our new ULTRA camera system will see our inspection camera and monitor systems available for use in ATEX certified environments for the first time.

Wet Tools Available

Specialist wet tools are available for the removal of residual water and condensation at height. When paired with an appropriate wet/dry vac this allows the system to be used in refrigerated and temperature controlled climates.

Clean Down and Across!

The interlocking pole system means that the poles can be safely used to clean downwards as well as in a horizontal position (to allow for cleaning under racking for example) This gives SpaceVac a further set of uses in industrial and manufacturing facilities, as well as in external settings such as cleaning gutter trays in car parks.

Unique Vac - Hose Attachments.

Our unique hose cuff, attaches securely to the base of our cleaning pole system to prevent slippage during operation - keeping the hose firmly in position. Furthermore this cuff can be paired with one of our range of brushes to provide a 'detailing brush' option for cleaning at ground level.

New Spacesuit and Prismatic Glasses Now Available

The introduction of our new Spacesuit offers further comfort and support to users over the course of heavy duty or particularly long cleaning projects.

The SpaceSuit reduces the operating weight of the system to next to nothing (using the suit, the whole pole system can be lifted with one finger) making it easier to use SpaceVac over prolonged periods of time.

In addition, the set of prismatic glasses that comes with the Spacesuit, allows operators to see cleaning progress from the ground floor without needing to crane their necks upwards, reducing neck strain and making use of SpaceVac even easier.

British Engineering. Global Issues.



SpaceVac are the world's leading manufacturer of high-level vacuum cleaning and inspection systems. Our pioneering technology is revolutionising gutter cleaning, high-level interior and exterior cleaning and high-level inspection!

The SpaceVac system was invented 10 years ago and since then, continuous research and development has provided a range of systems that are revolutionising high-level cleaning.

From our fully conductive ATEX systems, (the world's first ATEX certified high-level cleaning system, certified for use in explosive atmospheres) through to our wide selection of tools and accessories; the SpaceVac range – all featuring our market leading "Safety Locking Mechanism" – have been built with safety and quality at heart.

A Revolution in High-Level Cleaning:

The origins of the SpaceVac system lie in gutter cleaning. Recognising an opportunity in the market for a

system that allows operators to clean these areas from the ground floor, the system was developed and launched almost a decade ago and has since seen constant refinement and improvement, creating the world's leading high-level cleaning system.

The SpaceVac System:

The system itself is made up of five distinct elements.

The first part is a unique **universal vacuum to hose cuff** that safely connects the SpaceVac system to your existing vacuum. (Please talk to our technical team for recommendations on appropriate vacuums)

The second part of the system is a range of **interlocking poles** which combine to a maximum height of 15 metres high. The lightweight carbon-fibre poles utilise our unique "safety locking mechanism" to stay together during operation.

The poles are complimented with a full range of safety locked **cleaning tools** including lightweight durable cleaning heads for spiking built-up debris, collecting material from gutters and even a range of brushes

and tools for cleaning internal racking, ducting and vents.

Finally all of our systems can be accessorised with the addition of a **wireless camera and monitoring system**; enabling users to see the progress of cleans in real time from the safety of the ground floor.

Finally, our unique hose cuff mechanism allows for direct connection of tools for detail work where required.

A Market Leader for a Reason:

Since its introduction, SpaceVac has won rave reviews from end users and facilities management companies alike for its technical abilities and robust long lasting construction.

As our international expansion has continued, the system has continued to find new markets with businesses across a wide range of sectors and geographies winning awards from the likes of ISSA and Green World along the way!

The Unusual Suspects:

Meet the 2020 Range from SpaceVac International...

Internal Cleaning Systems:



The SpaceVac Internal Cleaning System provides operators a safe and easy way to clean high-level areas from the safety of the ground floor.

There are five variants of our internal cleaning system to choose from, with corresponding head and tools sets to match, the Internal range presents a versatile family of specialist cleaning tools for any price point or use..

Systems Available:

38mm Lite
38mm Pioneer
38mm Internal Classic
38mm Internal Pro
38mm Internal Ultra

External Cleaning Systems:



The SpaceVac External Cleaning System is the safest and easiest way to clean blocked guttering, downpipes and other high level areas up to 15m high from the safety of the ground floor.

This heavy duty version of our cleaning system provides a powerful, long lasting solution to some of the perennial issues faced by facilities managers and building owners worldwide.

Systems Available:

50mm External Classic
50mm Universal

ATEX Cleaning Systems:



The patented SpaceVac ATEX Cleaning System provides operators a completely conductive, spark free version of our high-level cleaning systems for use in ATEX certified explosive atmospheres.

This revolutionary development in the SpaceVac line was the first system of its kind to be fully and independently certified [as a system] in these highly specialised atmospheres,

Systems Available:

38mm ATEX Lite
38mm ATEX Pioneer
38mm ATEX Pro
38mm ATEX Ultra
50mm ATEX Pro

Specialist Cleaning Systems:

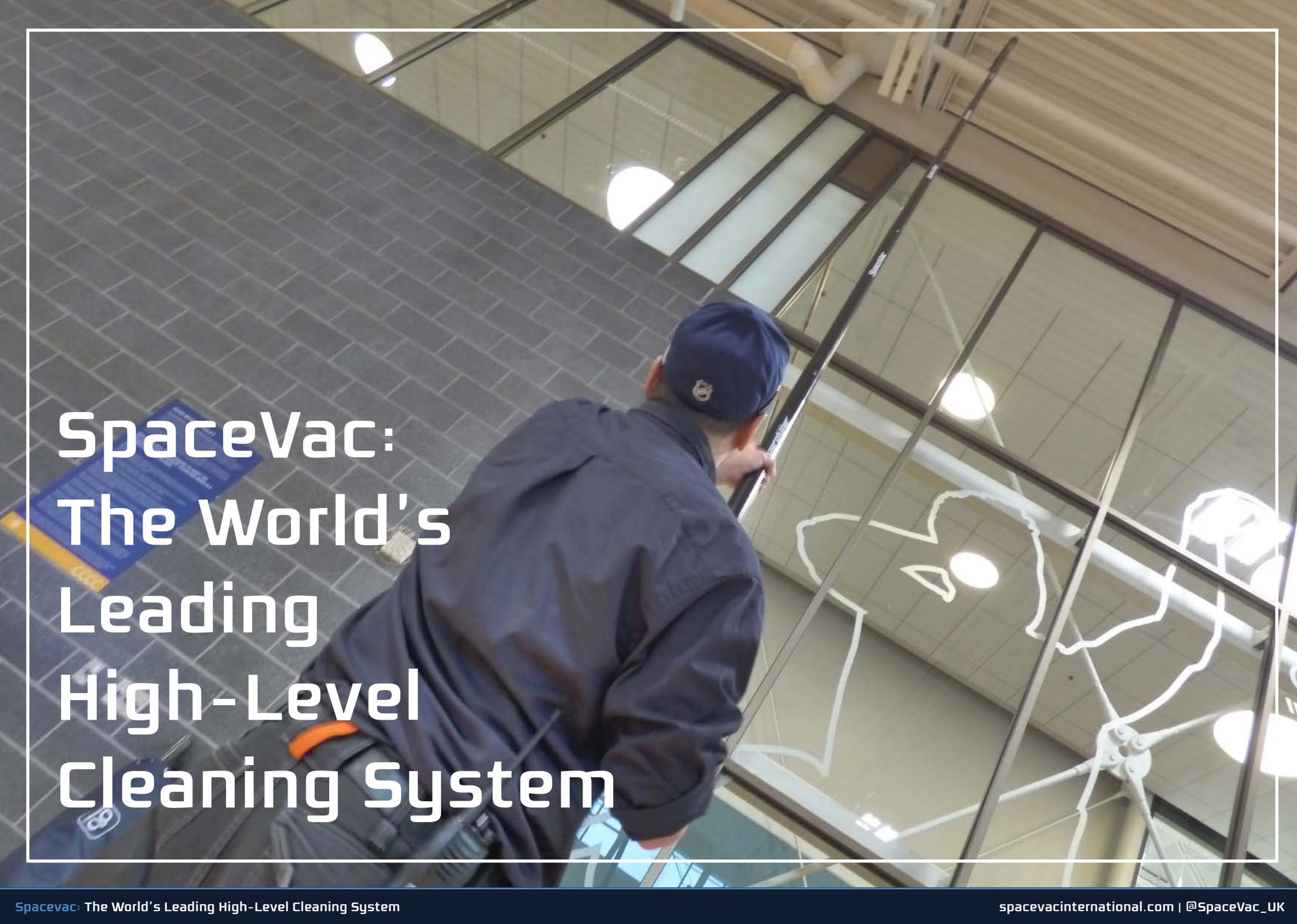


In addition to our Internal, External and ATEX high-level cleaning systems, SpaceVac also manufactures a number of specialist systems for specific purposes.

This line includes a Food Safe cleaning system for use in manufacturing and preparation facilities and a brand new high-voltage system with a poleset for use in trackside and other high-voltage areas.

Systems Available:

38mm Food Safe
50mm High Voltage



SpaceVac: The World's Leading High-Level Cleaning System



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