



The VT Range

VT500

VT650

VT800

Johnston – The benchmark for sweeper quality

30
THOUSAND

PARTS IN STOCK
WORLDWIDE

200
STRONG

WORLDWIDE
CUSTOMER SERVICE
NETWORK



Certificate No. FM 83396



Certificate No. EMS 533329

Johnston is the world's leading manufacturer of outdoor surface cleansing equipment. We are unique amongst sweeper manufacturers in that our comprehensive range of machines means that we are able to offer the right product for your application – wherever in the world you are.

Designed for ease of use, outstanding performance, reliability, durability and the lowest possible cost of ownership, the Johnston VT Range offers industry-leading sweeping technology.

With durable, rugged construction, high performance suction and a design that meets all international safety and environmental standards, the VT Range sets the global benchmark for truck-mounted sweeper quality.

The quality of our twin-engined VT Range is matched only by the high standard of our premium quality after sales support.

Over 200 strategically located distributors and dealers worldwide ensure that our support network is unrivalled within the industry. Rigorous service technician training programmes ensure that you have access to comprehensive support, detailed technical and application advice and a consistently high standard of service, wherever you're based.

Add low depreciation rates and high residual values and you will see how whole life costs of the Johnston VT Range are kept to a minimum.

Johnston Sweepers is certified to ISO14001 and committed to environmental issues which are a key part of our manufacturing philosophy. Recycling, energy efficient processes and an environmental policy reduce waste and contribute to a cleaner workplace which is kinder to the environment.

RIGHT
*Fully trained Johnston
service technicians*

CENTRE
*Johnston's dedicated
parts team*

FAR RIGHT
*A comprehensive
inventory of parts for
all Johnston machines*





VT Range

The VT Range is an evolution of our successful 600 Series. Recognised by the UK's Design Council for its innovative technology, it remains the best selling model in its class worldwide.

The Johnston VT Range is designed to meet the requirements of the most demanding municipal and contractor applications. And with a full product range available worldwide, you are assured of the right product for your location.

Equally at home on municipal street cleansing or heavier duty work sites our VT Range delivers consistently high pick-up performance – even on contractor duties such as road planing and dirt pick-up around construction sites and access roads.

Compact and efficient, the sweeping gear is designed for maximum performance and protection from damage. Add a range of body capacity specifications and a comprehensive choice of optional equipment – and you have a versatile range ideal for a variety of sweeping applications. Johnston equipment can be mounted on chassis types spanning 9.5 to 18 tonnes and vehicles are available in 3 body sizes.

Built for reliability and durability, major components are aluminium oxide bead blasted prior to the application of corrosion resistant primer and two-pack epoxy paint finish. Sweepgear is zinc phosphated and powder-coated to resist the equivalent of a 1000 hour salt spray test.

BELOW

Available in dual or single sweep configuration, with the option of a 3.6m swept path which ensures superb coverage per hour – and with high capacity hoppers, water systems and fuel tanks, the VT Range is designed to stay at work for longer.





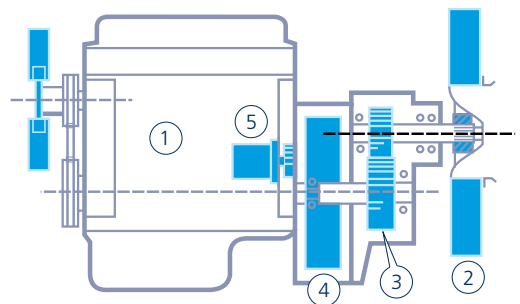
ABOVE
Johnston VT Range
Sweeper

VT Range powerpack

All VT Range sweepers are powered by a dedicated auxiliary engine. This drives the dynamically balanced multi-vane impeller via Johnston's patented fluid flywheel coupling. Designed for safety, efficiency and exceptional performance, this is the simplest and most efficient design on the market today.

Each vane of the fan is self cleaning and constructed of abrasion resistant plate that varies in thickness, which vastly reduces the risk of damage or injury in the case of failure.

VT Range powerpack



- | | |
|--------------------------|------------------------------|
| 1 Engine | 4 Fluid flywheel coupling |
| 2 Exhauster fan impeller | 5 Gear driven hydraulic pump |
| 3 Step-up gearbox | |

OPPOSITE

Johnston VT Range
High performance
pick-up for construction
applications

BELOW

Rotatilt option allows
the angle of the brush
to be changed from
within the cab

BOTTOM

Dual steer cab controls



Sweepgear

The Johnston standard sweeping system comprises the channel brush, the suction nozzle and a wide-sweep brush.

The hydraulically operated channel brush has trailing arm suspension and is protected by a kick-back pressure-assisted device. Johnston's Extendabrush design provides additional reach into difficult areas. When combined with the simultaneous dual sweep option, a swept width of 3600mm can be achieved – increasing productivity. All of the sweepgear is mounted to the subframe, which reduces changes to the vehicle chassis. An optional Variabrush system is available which allows the operator to control the position of each channel brush independently.

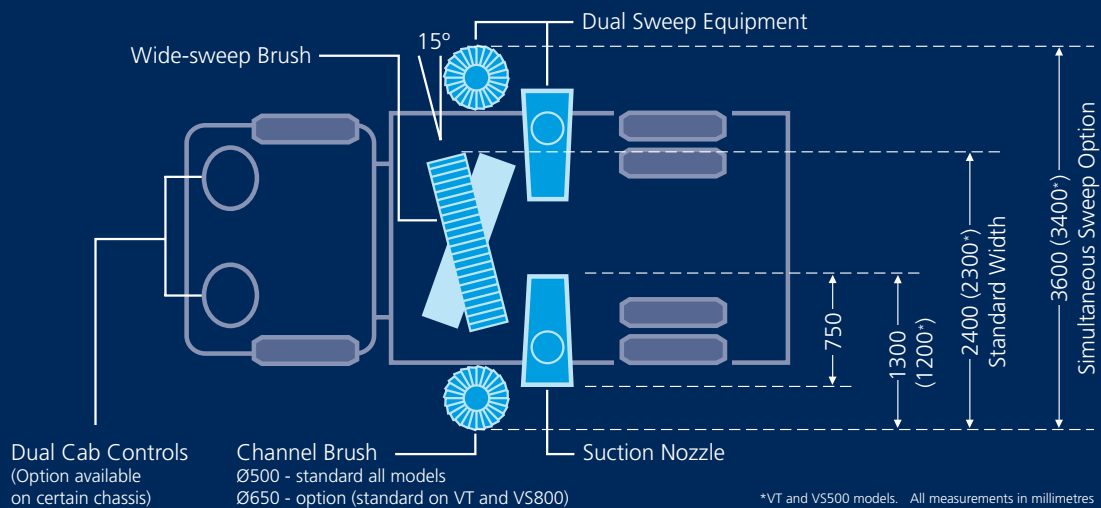
The suction nozzle has low-noise replaceable rubber wear edges and specially designed nozzle rubbers that ensure comprehensive collection of all surface debris – even pea shingle.

With quick and simple tool free set-up, the nozzle also features Johnston's Maxigap system, which is operated from the cab. Together with the large 250mm diameter trunking and inlets, this allows the collection of unusually shaped or bulky materials and reduces the risk of blockages.

The wide-sweep brush is also hydraulically driven and incorporates four pneumatic regulators to ensure that it is symmetrically deployed – even when switching between left and right hand side sweeping.

This system prolongs the life of the brush and reduces the cost of ownership. In addition, our Powascrub variable ground pressure system can be selected as an option. Not only does this reduce brush wear when debris is light, it also enables the wide-sweep brush to scrub the surface in difficult environments or for specific applications. The channel and wide-sweep brush installations have been designed with productivity in mind. Both feature quick-change mechanisms which reduce downtime between changeovers.

Sweeping configurations





RIGHT
*Johnston VT Range
Sweeper*

Control systems

All sweeping operations are controlled from the master module inside the cab. This incorporates an audible and visual raised hopper warning, equipment fuel gauge, auxiliary engine hour counter and tachometer and a low-level water indicator as standard. The throttle control of the auxiliary engine is infinitely variable ensuring optimum operational and fuel efficiency with no performance compromise. This can also be used to reduce noise levels for night sweeping operations.

For optimum visibility and operational safety, pendant controls allow body tipping and rear door control from both inside and out of the cab. The body can be tipped with or without the engine running.

All critical system controls – including the master circuit breaker plus the valves and auxiliary equipment for the pneumatic, hydraulic and water systems – are housed in a purpose built, dust and weatherproof locker on the right of the vehicle. This aids diagnostics and allows quick and easy checks. The VT Range also comes with waterproof IP67 automotive electrical connectors to enhance reliability.

Body and water system

With a heavy-duty, corrosion-resistant stainless steel body, Johnston's VT Range is robustly built for unrivalled reliability, durability and longer operational life. Critical areas of high abrasion are protected by consumable components that prolong sweeper life and minimise maintenance costs.

The VT Range body features twin access side doors which allow the collection of larger items and easy cleaning of the screens. And the rear discharge chute directs loads away from the rear of the vehicle, minimising the risk of damage to lamps and other components.

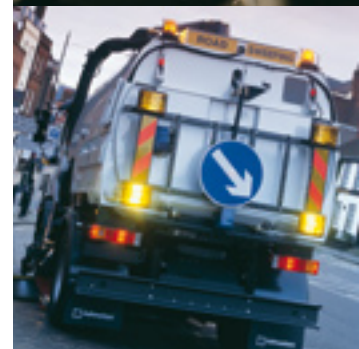
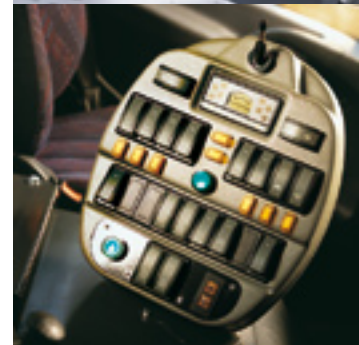
With the constant increase in charges for tipping waste, the standard load de-watering system ensures that you only pay for waste volume – not unnecessary water. An optional perforated mesh prevents clogging for more efficient de-watering.

When tipping, the auto prop engages automatically as the body is raised, with four propping positions. The last position at 'full tip' allows maximum access for routine maintenance. This removes the need for the operator to touch any part of the mechanism during the raising or lowering operation, in accordance with EU and CEN safety standards.

Uncomplicated design of all sweep systems and engine installation means easy maintenance, less downtime and maximised operational availability – which all contribute towards high productivity and lowest cost of ownership.

Specified to match the body capacity required, the integral water tank ensures a constant centre of gravity and near perfect weight distribution. This increases vehicle stability in all load conditions. Additional water tanks can be added to longer wheelbase versions if required.

The VT Range also features a standard Pressadrain water purging system that enables the easy removal of water from the systems in freezing overnight conditions. By fully cleaning the inside of the body and removing the newly designed bung between the hopper and the water tank, the new VT Range can also operate as a streetwasher.



TOP
*Auto body prop
with auto-release*

MIDDLE
*Ergonomically
designed control
panel*

BOTTOM
*Rear mounted
beacons provide
outstanding visibility*



Environmental features

The VT Range comes with an optional water recirculation system that recycles excess water from the body space into the suction nozzle. Independently operated from within the cab, this system conserves water, reduces dust emission and provides more on-station time.

Noise sources are soundproofed to minimise disturbance, making the machine particularly suited to urban use throughout the day and night.

The VT Range has full European EUnited PM10 Certification for dust control, as well as being the first European-manufactured sweeper to achieve full PM10 test compliance to the American SCAQMD Rule 1186.

In addition to all this, Johnston Sweepers is the first sweeper company to be awarded ISO14001 certification.

ABOVE
*Ideally suited to a range of
operating environments*





Outline Specifications

VT500/VS500

| | | | |
|-----------------------------------|---|-----------------------------|--------------|
| Payload capacity: | up to 3-4 tonnes nominal (depending on chassis selection) | | |
| Clean water tank capacity: | 1000 litres | | |
| Hopper void: | 5m ³ nominal | Swept width: | 3400mm (Max) |
| Chassis GVM: | 9.5-12 tonnes | Auxiliary fuel tank: | 190 litres |

VT650/VS650

| | | | |
|--|---|-----------------------------|--------------|
| Payload capacity: | up to 6 tonnes nominal (depending on chassis selection) | | |
| Clean water tank capacity: | 1300 litres | | |
| Additional water capacity recirculation option: | 750 litres | | |
| Hopper void: | 6.5m ³ nominal | Swept width: | 3600mm (Max) |
| Chassis GVM: | 13-15 tonnes | Auxiliary fuel tank: | 190 litres |

VT800/VS800

| | | | |
|--|---|-----------------------------|--------------|
| Payload capacity: | up to 7 tonnes nominal (depending on chassis selection) | | |
| Clean water tank capacity: | 1850 litres | | |
| Additional water capacity recirculation option: | 750 litres | | |
| Hopper void: | 8m ³ nominal | Swept width: | 3600mm (Max) |
| Chassis GVM: | 15-18 tonnes | Auxiliary fuel tank: | 190 litres |



MAIN

Front mounted full width spray bar

TOP

Simultaneous sweep option for increased cleaning capability

BOTTOM

Johnstone VT Range
Single sweep configuration



VT Range options

Wanderhose

Available in 150 and 200mm diameters, this rigid, turntable-mounted hose with a flexible extension enables cleaning over a wide 3.35m radius. Boom-mounted with 280° of rotary movement, it provides access around parked cars, over fences and into drains for emptying to a depth of 2 metres. An optional hydraulically powered boom control is also available.

Littasnatch

Specially developed to pick up light litter from pavements and hedgerows. With a lightweight, easy to operate flexible hose and nozzle, it can reach up to 7 metres.

Water recirculation

This significantly improves sweeping productivity. In addition to the regular clean water tank capacity, the recirculation fill in the hopper increases on-station time by up to 50%. Controlled from within the cab, recycling excess water from the body into the suction nozzle conserves water and reduces dust emission. Water recirculation not available on VT500.



MAIN

Optional wanderhose picks up large and unusually-shaped objects

ABOVE LEFT

Compact and manoeuvrable for narrow suburban streets

ABOVE

Johnston VT Range
Sweeper



Supawash

A high pressure water system for fast cleaning of road furniture and the machine itself via a hose and hand lance. Water can also be diverted to a front-mounted full-width spray bar or suction nozzle bars to help remove stubborn road debris. The spray bar and the sweepgear can be used together for high performance cleaning, particularly around building sites or on road laying operations.

Powascrub

This wide sweep brush ground pressure device enables the extra scarification of compacted debris. It also alleviates weight on the brush during light sweeping duties to prolong brush life.

Simultaneous sweeping

This option allows dual sweep machines to deploy both channel brushes and nozzles simultaneously, to achieve a maximum width of 3.6m .

Powered rear mesh shakers

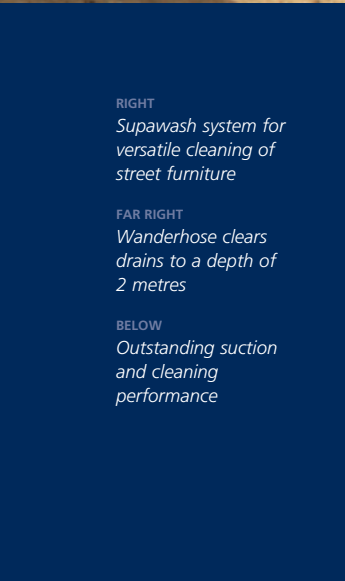
A fast and effective method of clearing damp paper, leaves, and dirt from suction meshes without opening rear or access doors.

High power auxiliary engine

For exceptional performance in difficult environments, a high powered auxiliary engine may be specified.

Variabrush

Allows the channel brushes to be laterally controlled from within the cab.



RIGHT
Supawash system for versatile cleaning of street furniture

FAR RIGHT
Wanderhose clears drains to a depth of 2 metres

BELOW
Outstanding suction and cleaning performance

A comprehensive range of additional options is available. Please ask for details.

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