Johnston goes diesel-free!
Our completely alternative-fuel sweeper line-up comes to IFAT

For the first time in more than 80 years of producing pioneering road sweepers, Johnston Sweepers’ product line-up is completely alternative-fuel-enabled – and we have chosen IFAT 2018 to show off the entire diesel-free range.

It’s our greenest and cleanest product line-up yet, giving fleet operators and local authorities three alternative fuel options to help ditch the diesel in the quest for cleaner air, lower emissions, and reduced particulate matter.

And it’s our newest and latest range too, with no less than four brand new sweeper models on display, as part of our continual product research and development programme.

Johnston’s brand new VS651 CNG truck mounted sweeper, driven by a single 210Hp engine, has been engineered by Johnston and Iveco to be powered solely by CNG (Compressed Natural Gas), the cleanest burning transportation fuel available.

With filling stations all over Europe and generous fuel excise levels set by governments, CNG is the cheapest and cleanest accessible fossil-based natural gas fuel. The principal savings come on emissions with zero particulates (PM) and up to 29% less CO₂ (carbon dioxide) than diesel vehicles on a well-to-wheel basis, and 45% less hydrocarbons.

In short, CNG offers lower fuel costs, lower air pollution, lower engine noise, zero particulates, and lower infrastructure investments compared to alternatives.

Or, for an instant easy fix for fleet operators looking for a cleaner Johnston goes diesel-free!

The line-up on Johnston’s exhibition stand includes...

- Our CN101 Subcompact, able to run on HVO (Hydrotreated Vegetable Oil), the easiest “drop in” mix and match fuel available, requiring no engine modifications whatsoever.

- Our brand new C202 Compact, also now able to operate on HVO and brought to the market with a host of clever new features (see page 5 to find out all about it).

- Our very latest brand new CX401 high-speed mid-sized sweeper, capable of 80kph transit speeds and fully HVO-enabled.

- Our brand new VS651 CNG truck-mounted sweeper, purpose-built to run on CNG, the cleanest burning transportation fuel available today.

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and introducing…

**eVie** - Johnston’s first-ever fully electrically powered truck mounted sweeper (aka VE651)

Johnston Sweipers is very excited to introduce our first – and we believe the WORLD’S first - electrically-powered zero emissions TRUCK MOUNTED sweeper, which we are unveiling to the market for the very first time at IFAT 2018.

The Johnston VE651, known as **eVie** (Electric Vehicle Intelligent Electronics), has been developed by Johnston’s design team as a proof of concept vehicle, primarily to assess the feasibility of such a pioneering machine and to gauge market interest. And, of course, to prove that it could actually be done!

**eVie** is a full size truck sweeper mounted on a specially modified 16 tonne chassis, and powered by a high performance 350kW electric motor. The battery driving the whole vehicle is a 200kWh Lithium Ion Phosphate (LiFePO4) battery-pack, chosen by Johnston’s engineers for its balance of weight, power density, charge rate and lower operating temperature, requiring no liquid cooling.

The battery itself offsets the weight of the two engines and two sets of transmission used in a standard diesel/ HVO-powered machine, meaning that the overall weight of the sweeper remains the same.

The result is a seriously clever zero emissions, low noise, low maintenance full-size sweeper with a 6 tonne payload, similar to a diesel twin engine machine, and designed to be capable of a full sweeping shift. And, unique to any comparable vehicle, **eVie’s** driving range is 200km at “mid-loaded” mass on a single charge, meaning it operates at less than 1kWh per kilometre.

Continued on page 2
Alternative fuels Continued from page 1

Air alternative HVO is the ideal solution, and Johnston is delighted to be the first sweeper company to gain approval for its use across our entire sweeper range.

HVO (Hydrotreated Vegetable Oil) has the same composition and productive output as diesel but with none of the harmful properties, burning cleaner and with significantly lower damaging emissions - 27% less hydrocarbons and 28% less NOX (nitrogen oxides).

The principal advantage is that it is a “drop in” fuel which can be added to existing fuel tanks without modifications and with no need to clean out storage tanks – just fill and go. It can be mixed with diesel if required, and is fully interchangeable from fill to fill.

And now, Johnston is very proud to be presenting our amazing new VE651 fully electrically-powered truck mounted sweeper for the very first time, developed as a Proof of Concept machine powered entirely by battery, and representing a remarkable advance in electric vehicle technology.

It’s a seriously clever idea and, together with our VE651 CNG and fully HVO-enabled product range, Johnston has all the alternative fuel bases covered, offering the best solutions for fleet operators and local authorities looking to ditch the diesel, cleaning up our air and saving money into the bargain.

C&G

Johnston’s new Rear Mounted Wanderhose unveiled at IFAT 2018

Johnston has introduced a brand new Rear Mounted Wanderhose as an alternative to the Top Mounted version, replacing the previous system with a completely new design.

The new system includes an extra-long hose with handles to hold the hydraulically operated hose, and ergonomic controls to adjust the engine speed and to lift and lower the hose as required. For the operator, the new design is really easy and comfortable to use, requiring no extension for normal gully cleaning, although a single extension tube is supplied for extra-deep gullies.

All of the automotive functions of the VE651 are electrically powered, as well as the sweeper fan, brushes and Supawash system, requiring no additional power input.

“Our primary objective in designing the VE651 concept vehicle was to develop the technology and optimise control systems to maximise the sweeping range of an electric truck mounted sweeper”, says Clive Offley, Johnston’s Engineering Director. “We wanted to prove that it is possible to deliver a full-size 16 tonne sweeper that is capable of performing a full single shift operation with routine overnight charging, giving local councils and municipalities the opportunity to make a real difference to air and noise pollution. Our next step is to conduct further trials and evaluations with customers ready to take the machine into production in the near future”.

Come along and see eVie at IFAT, and let us know what you think of our clever new idea!
Johnston’s fresh new website goes live!

Johnston Sweepers is delighted to announce the launch of its all-new website, which went live in January. The new site has a fresher, cooler look and is easier than ever to navigate. It’s also mobile-friendly and includes a brand new Resources Area where technical documents are available to view. Take a look at www.johnstonsweepers.com.

Check out our new brochures!

We’re updating the look of our sweeper product brochures – just for a bit of a change! The “photostration” pictures are out in favour of hero shots of our machines hard at work, keeping the environment clear of litter and dirt. Keep an eye out in the trade press for our new advertisements too...!!

Johnston wins Large Manufacturer of the Year in Made in the South East awards

Johnston Sweepers has been named Large Manufacturer of the Year in the Made in the South East Awards. The 2017 awards pitched us against tough competition in the shortlist finals, but the judges felt that our continued investment in our 13-acre site in Dorking and in our staff made us the outstanding manufacturer of the year.

Staff from Johnston were delighted to receive the award which is now proudly in display at our Dorking headquarters.

Hounslow Highways unveils new sweeper fleet wrapped with anti-litter designs by local schools

Ringway Hounslow Highways decided to do something a little different for the livery on their latest delivery of Johnston CN101 sub compact sweepers.

The three new machines have each been wrapped with winning designs by local schoolchildren taking part in an Environmental Art competition to raise awareness of anti-littering. Children from primary schools in the borough were invited to submit anti-litter/fly tipping posters as part of a community campaign to reduce litter – which also included investment in new sweepers to keep the area clean and tidy of domestic fly tipping.

The machines, wrapped by RVG Eurosigs, were unveiled at Hounslow Highways’ depot with the leader of London Borough of Hounslow, Councillor Steve Curran, and the winners of the competition in attendance. The schools of the winning entrants received iPads, while the winners themselves received book vouchers and Johnston goody bags.

Martin Clack, Divisional Director at Ringway Hounslow Highways, said: “Ringway Hounslow Highways are very grateful to all of the schools who took part in this Environmental Art competition. This initiative builds upon our community engagement, behavioural education, and enforcement activities. Our commitment to improving Environmental standards across Hounslow is reinforced by the £500,000 investment in the 6 new mechanical sweepers which will enable opportunities for new ways of working, and innovative solutions to the challenges presented by increased fly tipping of domestic waste.”

The CN101 subcompact sweepers were chosen to meet the demanding urban environment in Hounslow, with heavily parked vehicles and high traffic levels. The highly manoeuvrable machines are ideal for this type of sweeping application, and are now hard at work in the busy London borough.
VT651 gets full makeover as part of Johnston’s Quality Improvement Programme

The channel brush now has a high-visibility brush plate for improved visibility, especially in poor light conditions, and the wide sweep brush balance system has been redesigned to set the brush pressure on the road and counteract uneven brush wear, with 4 bar regulators in place of the previous 8.

The weight overload indicator has also been redesigned to include a non-contact proximity sensor, which triggers the weight overload warning indicator when the sensor is parallel to the limit plate.

Among the optional equipment upgrades is a new rear facing camera, which has also been relocated to the top of the rear door for better visibility on all chassis selections. The new positioning eliminates blind spots and there is less glare from following traffic when operating in the dark.

The supawash spraybar has been moved to the rear of the wide sweep brush for superior cleaning performance, and better protection of the spraybar from damage. There is now also a quick release bar for ease of cleaning and replacing the water jets.

And finally comes a brand new option, an additional nozzle for injecting water to the top of the intake seats, allowing two low pressure nozzles to the top of the intake duct. Ideally suited to dry and dusty conditions, the nozzles keep the trunking lubricated during sweeping and reduce dust emissions.

These first wave of upgrades include some seemingly minor changes, yet each has been evaluated, engineered and comprehensively tested to build on the quality and reliability of our best-selling machine, transforming its durability and performance – and we think you’ll notice the difference…!

The Quality Improvement Programme includes four design projects, each focusing on different areas of the design of the machine. Watch this space for the next batch of upgrades due later in 2018.

Johnston’s VT651 is being given a complete make-over as part of a continuous Quality Improvement Programme designed to transform the quality, reliability and durability of our world-renowned machine.

The design upgrades are being introduced in response to feedback from customers and will be launched in four swathes, the first of which is now already in production.

Literally hundreds of engineering developments are underway – some that customers will barely notice but which have been designed to improve durability, and others which we think will be warmly welcomed by our customers, helping to enhance comfort, ease of operation, optimise performance and simplify maintenance.

The first series of upgrades includes LED sweeper lightwork fitted as standard, replacing the outgoing halogen lamps for greater performance and reliability and with optional double and triple sets of worklights available for even greater visibility.

The suction nozzle carriage has also been redesigned for improved nozzle gap graduations, and to ease adjustment with the introduction of a locking clamp. The driver now simply releases the clamp and moves the lever to the required position, in place of the previous link chain mechanism.

High performance wear-resistant steel has been introduced as standard on all inlet ducts and seats for added durability, having the same weight and thickness as mild steel but lasting three times longer, reducing maintenance costs and adding to longevity of parts.

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Go Plant Fleet Services adds yet more Johnston machines to its growing truck mounted sweeper fleet

Go Plant Fleet Services continues to be one of Johnston’s largest customers for truck mounted sweepers in the UK, with more than 80 machines delivered over the last fifteen months.

The UK’s market leader in the provision of operated and self-drive road sweepers, Go Plant now operates a fleet of 500-plus high specification truck mounted sweepers, predominantly Johnstons, and is gearing up for another year of growth with the delivery of 65 new vehicles to expand both the operated and self-drive fleet. With over 40 years’ history, Go Plant Fleet Services operates on a national scale, with a network of 11 regional operated service centres, 12 satellite depots, and 360 operated drivers covering up to 95% of England and Wales.

The acquisition follows hard on the heels of the purchase of 10 Sweepers in East Anglia last year, which also added to the growing fleet.

As well as winning a number of key new contracts, Go Plant has maintained many long-standing relationships with both public and private sector customers, including Solutions SK Ltd, to whom the company has provided vehicle maintenance service for the past sixteen years. Just before Christmas 2017, after an extensive tender process, they were re-awarded the contract to maintain Solution SK Ltd’s fleet of 202 vehicles, and to be their taxi testing provider for another four years, securing over £4m revenue.

Commenting on the company’s growth strategy, Paul Langham, Go Plant’s Operations Director says, “The investment in new vehicles isn’t new to Go Plant Fleet Services, as we have always believed in, and understood the importance of, raising the standards across the industry by consistently upgrading and expanding our fleet to ensure our customers receive the very best standard of service and quality of vehicles possible – all at competitive costs.”

As part of its continued growth and expansion strategy, in March this year the company completed the acquisition of the trading activity of operated sweeper hire company, SM Sweepers Limited, a family run business based in the South Midlands which will continue to operate from Go Plant’s new facility in ilk, Kettering.

The purchase added around 30 sweepers to the fleet, including a number of Beam specialist heavy-duty machines supplied by Johnston’s sister company in Denmark – more of which are currently on order.
Following hard on the heels of an extensive technical makeover in 2017, Johnston Sweepers has now relaunched its award-winning Compact sweeper with a completely new marque, the Johnston C202.

The new machine replaces the C201, and introduces a host of new features for enhanced performance and ride comfort, together with reduced running costs and lower impact on the environment – including the facility to run the machine on HVO (Hydrotreated Vegetable Oil) fuel.

The C202 has been designed as part of Johnston’s on-going product development programme, based on the premise of We Listen, We Engineer, We Deliver - acting on feedback and suggestions from customers and bringing the machines right up to date with all the latest technology and advances in environmental impact.

Available as before in two models – the CN202, with up to 40 km/h transit speed, and the CX202, which travels up to 50 km/h – the new sweeper has all-new brakes, tyres, axle and latest Euro 6C low emissions engine, as well as an array of recently-introduced sweep system and cab upgrades.

For best-ever comfort and handling, Johnston’s engineering team has designed a brand new braking system, incorporating front disks to improve braking ability and consistency of performance. In response to customer feedback, there is also a new front axle which improves stability and handling, while retaining all of the famous exceptional manoeuvrability of the Johnston Compact.

In line with Johnston’s commitment to lowering emissions, the new C202 is fitted with the very latest stage low-emissions Euro 6C engine as standard, helping authorities to meet their environmental and air quality targets. There is also a Stage 5 optional alternative engine available.

The new C202 additionally benefits from a raft of recently-introduced technical and aesthetic upgrades, including a roomy new cab and a newly-routed hydraulic hose system which features steel and flexi combination hoses secured by stauff clamps for significantly improved reliability.

While designing the new hose system Johnston took the opportunity to introduce many more technical upgrades and customer-driven design changes, including a new removable glass floor and grille in the cab for ease of access for cleaning and increased visibility. The all-new cab also includes extra-long red webbing seat belts which meet the latest ECE Regulation 16 restraint regulations, and there are now multi directional air vents for improved air flow and control in the cab, and a new air conditioning system - as well as dozens of ‘under the bonnet’ technical changes to improve performance and reliability.

Another popular addition is the introduction of LED work lights as standard, replacing the halogen lights system. This delivers more powerful lighting while significantly reducing the number of times bulbs require replacement, with consequent cost and downtime reductions.

In introducing all these design upgrades, Johnston has brought its best-ever Compact sweeper to the market, combing the latest clean-air engine technology with clever solutions for ease of maintenance and reducing running costs, while also adding to reliability, efficiency, performance and driver comfort into the bargain.

The Johnston C202 goes on sale this summer, so book your demonstration soon!
JOHNSTON NEWS

New Johnston 80 km/h CX401 mid-sized model gives truck sweeper capability with “sweepability” of a compact

Johnston has launched a brand new high speed version of the C400 mid-sized sweeper, capable of 80km/h transit speeds, almost twice that of the CN401 model.

The CX401 marque has all the benefits of a compact sweeper – great manoeuvrability, visibility and access – but with the comparable payload and transit speed advantages of a truck mounted machine.

The 80km/h transit speed means that it can keep up with the traffic while travelling on highways, making it ideal for spread-out urban centre sweeping. The smaller dimensions and lower weight of the machine, together with 4-wheel steer and front-facing brushes, give the CX401 exceptional manoeuvrability for urban and semi-urban sweeping, with the added advantage of great visibility from the cab.

The new CX401 has full European type-approval, just as any other N2 category truck, and is powered by the latest Euro 6C engine for lowest emissions. The machine can also be run on HVO, or a mix of HVO and diesel, for customers looking to reduce their carbon footprint.

With such a great line-up of sweeping qualities and advantages, it’s no wonder that popularity of the C400 mid-sized machine is growing. Why not book a demonstration today…?

Dawson group Sweeper

domed to UK’s first VS651 CNG-powered sweeper to Leeds City Council

Dawson group Sweeper has delivered one of the very first VS651 CNG sweeper produced by Johnston to be powered by CNG (Compressed Natural Gas) to Leeds City Council, in yet another product launch initiative between the two companies.

The machine has been supplied to Leeds City Centre as part of the Council’s Clean Air initiative, which aims to have all vehicles on its fleet running on CNG or other alternative fuels by 2020. The CNG option has already been tried and tested by Leeds, with a number of its refuse collection vehicles running on the clean-air fuel for the last two years.

First launched at RWM 2017, the machine has been on tour round the UK shows, including FM18 (Fleet Management Conference and Exhibition) where Terry Pycroft, Leeds City Council’s Head of Fleet Services, addressed the conference on alternative fuels in council fleets and introduced the new Johnston VS651 CNG, which attracted much interest.

Speaking of the new sweeper, Terry Pycroft says, “When we first approached Dawson group Sweepers in the summer of 2017 we outlined our requirements in line with the clean air zone initiative which is coming into place by 2020. The service and support from the brief outlined by ourselves through to the delivery of the machine and training has been outstanding. Dawson group Sweeper has been making it happen for Leeds City Council since 2004 and we know if we ask, they will deliver.”

The supply to Leeds puts Dawson group Sweepers once again at the pioneering edge of sweeper fleet provision, being Johnston’s launch customer for many new sweeper products over the years. The company continues to be one of Johnston’s largest UK customers, with over one hundred truck mounted and compact sweepers delivered in the last fifteen months, and a further 60 on order.

The company is now looking to extend its range of alternative fuel-powered sweepers, as part of its strategy to help councils meet their clean-air targets.

Left-right: Terry Pycroft, Head of Fleet Services, Leeds City Council, Paul Brewer, Operations Director, Dawson group Sweepers, Simon Arshid, Fleet Controller, Leeds City Council, and Haley Thomas, Sales Executive, Dawson group Sweepers
Sri Lanka Airport attracted by magnetic VT651

Getting ready to be packed up for shipping to Sri Lanka is this specially modified VT651 sweeper fitted with a front magnet. The machine is on its way to Colombo International Airport to join a fleet of Johnston machines already sweeping at the airport, some of which have been hard at work for almost 30 years – and still going strong! All of the airport’s sweepers include a powerful magnet for collection of FOD (foreign object debris) from the runways and aprons.

CN401 is now France’s favourite Johnston sweeper

Johnston’s C401 mid-sized sweeper is now officially our most popular sweeper in France, with an almost three-fold increase in sales forecast for 2018.

Last year, sales of CN401 machines drew equal with those of truck mounted sweepers for the first time, and will now overtake them with twice as many orders for CN401s and CX401s than truck sweepers expected this year.

The CN401 is one of the most versatile of Johnston’s range, having a comparable payload to that of a truck mounted sweeper, with all the manoeuvrability of a compact machine, thanks to its 4-wheel steer and front-facing brushes. And now, with the launch of the CX401 high-speed model capable of 80km/h transit speeds, it is even more flexible, keeping up with highway traffic between jobs.

Many of the CN401 sales have been through UGAP, a French government department which facilitates tenders for small municipalities across the country. UGAP was able to make a full assessment of the CN401’s performance and versatility following seeing demonstrations of the sweeper by Arvel, Johnston’s distributor in France, leading to an increase in sales throughout the country.

Arvel became Johnston’s distributor in France in 2015, mounting Johnston hoppers onto chassis from its 20,000m² factory in Coudes in mid-France and distributing Johnston sweepers into the French market, as well as supplying winter maintenance equipment.

Johnston CN401s are now busy sweeping all over France and we congratulate Arvel on their success.

Meet the team!
We’d like to introduce you to our Leeds Service Centre - at your service!

left to right: Chris Joy, Mobile Service Technician based in Goole, Howard Aspinall, Service Centre Manager, Jordan Lambert, based in Huddersfield, and Adrian Johnson, based at the Leeds Service Centre.

Johnston’s service centre in Leeds has been looking after customers throughout the north of England from its Copley Trading Estate base for thirteen years. Conveniently located in the heart of Leeds, the busy centre is operated by a twelve-strong team of service technicians and key administrative staff, headed up by Service Centre Manager, Howard Aspinall. Howard joined Johnston as a Service Technician when the centre first opened in 2005 and became manager five years ago.

The mobile team now has technicians based in Goole, Huddersfield, Burnley, Blackpool, Stockton on Tees, Flint in North Wales and Tamworth, bringing their knowledge and expertise to around seventy customers a week, and carrying extensive equipment and parts on-board for a fast and efficient service. There are two further depot-based Engineers, looking after customers’ bespoke maintenance contracts. Each contract is designed to suit customers’ individual service requirements, planned around specific budgets and operational needs. So, whether customers need service only or a full repair and maintenance package, Johnston can design a bespoke maintenance contract exactly the way it’s needed, available at any of its nationwide service centres.

More and more customers are opting to plan maintenance costs in advance in this way. The principal benefit of a maintenance contract is that expenditure is agreed and fixed at the outset, and remains unchanged for the duration of the contract term, so that customers can budget for routine servicing, safety inspections, repairs and breakdowns with full confidence. Johnston’s Leeds Service Centre is one of five UK centres of expertise covering the length and breadth of Britain to make sure that customers are supported by their nearest centre, for the fastest most efficient service. To speak to our Leeds Service Centre team for service assistance call 01132 471242.
JOHNSTON NEWS

A warm welcome to...
Nick Hobbs
Parts Sales Manager

We are very pleased to welcome Nick Hobbs to Johnston Sweepers, who joins us as Parts Sales Manager, responsible for domestic and export Parts Sales.

Nick has extensive experience with a 25 year career in the retail motor industry, working in the prestige and volume car sectors, as well as with LCV and HGV, both in the UK and Middle East. Nick was previously Group After Sales Manager for a UK Commercial

Mercedes-Benz dealership and prior to this he has worked either directly or indirectly with Nissan, Peugeot, MAN Truck and Bus (UK & Saudi Arabia), VW, Renault Commercials, Jaguar and Land Rover (UK & Bahrain). Nick worked his way up from warranty administration to Group After Sales Management, so he has a wealth of knowledge of the worldwide automotive industry.

When asked to comment on his new position with Johnston Sweepers Nick said, “I am delighted to be joining the market leader in its sector, and extremely excited about my new role. I look forward to using all my industry knowledge to help deliver a first class customer experience for Johnston customers across the world”.

We wish Nick every success in his new role with Johnston.

Mark Lediard
Service Centre Manager, South

We congratulate Mark in his new role and wish him every success in delivering service excellence to Johnston customers throughout the south of England.

Mark Lediard has been promoted to the position of Service Centre Manager South, based at our Dorking service depot. Mark joined Johnston in 2017 as a Technical Service Specialist, during which time he got to know our customers in the south and the Johnston product range well.

Before joining the Johnston team Mark worked in the motor trade with Volvo Cars and VW Commercial Vehicles as Master Technician and Workshop Controller, so he has plenty of experience in the vehicle trade. He is married with two grown up children and has lived in Dorking for 39 years.

We congratulate Mark in his new role and wish him every success in delivering service excellence to Johnston customers throughout the south of England.

Win one of 10 FREE model VT651s in our competition!

T A F I C X D R G H H S R D Y
E N G I N E E R I N G J I I T
W S D D R E S D D R C Y A E I
R D D K L M I W E A W S N S L
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CRUSHES
CLEAN AIR
CNG
COMPACT
DESIGN UPGRADES
DIESEL FREE
ELECTRIC
ENGINEERING
GREEN
HVO
IFAT
LED WORKLIGHTS
Sweepability
Wanderhose
WEBSITE

Sweeper-mad Rowan, 6, has his dreams come true with Johnston factory tour

So when his Dad approached us to ask if Rowan could visit the Dorking factory to see how they’re made, we were pleased to help – and particularly delighted to encourage such early interest in engineering!

Rowan had a wonderful time seeing all the different machines close up, and finding out more about how the brushes work – his particular interest. As part of his visit he sat in a sweeper and went home with a goody bag full of sweeper toys, including a totally unique Sweeper Lego kit created by Tom Loftus Jr, the son of one of our engineering team, and a Lego genius! According to his dad, Rowan talked non-stop about sweepers all the way home and had a great time building his Lego model, so the visit was a great success. We look forward to seeing him again in about 12 years’ time when we would be pleased for such an enthusiastic budding engineer to join the Johnston team...

Ingenious Lego sweeper made from scratch

The remarkably accurate Lego sweeper model given to little Rowan during his visit to Johnston’s factory in Surrey was constructed by Lego aficionado Tom Loftus Jr, son of our Technical Illustrator in Dorking.

The VT651 sweeper was built, not from a kit, but entirely from scratch with pieces from his Lego collection, and even includes a Wanderhose, brushes and a tipping body – and was originally put together when he was just 13 years old. Tom is now hoping to go into production with his Sweeper kits, so look out for them on Johnston stands at future trade shows...

We have a FREE MODEL VT651 to give away to the first ten correct entries to be pulled out of the hat in our Johnston Worldbeach competition. All you have to do is find the fifteen hidden words and email a picture of your completed entry to Nate Greenaway at: nate.greenaway@johnstonsweepers.com by 31st July 2018.

Good luck!