



The Johnston RT Range



RT655 Regenerative Air Sweeper

The RT655 provides cost effective, efficient road sweeping. Regenerative air recirculation, in conjunction with large forward facing 'digger' gutter brooms and a full width suction hood maximizes sweeping speed. Combined with ergonomic operator controls and low running costs, the RT655 provides an ideal solution to a variety of sweeping applications.

The operator environment is more important today as drivers work maximum hours and multiple shifts. The RT has been designed to fit onto a wide variety of chassis while giving the best maneuverability in its class. This allows for each user to select a chassis which suits their needs with the knowledge that the Johnstons Sweeper will provide the power and performance required to achieve the task.



Certificate No. FM 83396



Certificate No. EMS 533329



Certificate No. OHS 54760



Operator Environment

- Inside the selected chassis, the Johnston master control module is mounted in the cab and gives easy access to all the sweeper controls and options. An optional rear view camera provides safety for pedestrians and the sweeper when backing up.
- The ergonomic in cab controls incorporate an audible and visual raised hopper warning, sweeper fuel gauge, engine hour meter, tachometer and a low level water indicator as standard.
- 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.
- A pendant control connected via a flexible cable allows the operator to safely tip the body and open the rear door from both inside and out of the cab. This allows the operator to ensure the rear of the vehicle is clear of pedestrian traffic and positioned in the correct areas before discharging the load. The body can be tipped with or without the engine running via an electric motor.
- When tipping, the body prop engages automatically as the body is raised, and at 'full tip' allows maximum access for routine maintenance. This removes the requirement for the operator to touch any part of the mechanism during the raising or lowering operation.

FAR RIGHT

RIGHT

BELOW



- The auxiliary engine has a platform accessible via a service ladder to allow for easy access to daily check, routine service and maintenance.
- The RT range also comes with waterproof IP67 automotive electrical connectors to enhance reliability.
- The RT range features a standard Pressadrain water purging system that enables the easy removal of water from the systems in freezing overnight conditions.

Productivity

The RT range balances performance, environmental impact and low cost of ownership very effectively. Sharing the same power train from the Johnston VT range, the RT provides excellent productivity with reduced maintenance costs.

A high power 115hp John Deere turbocharged engine provides outstanding vacuum performance. Combined with Johnston's mechanical step up gear box and fluid coupling, the RT range of sweepers provide the best power to fan speed ratio in the industry.

Large forward facing digger brooms rotate from 0 to 100 rpm to lift dirt and debris from the curb side, controlled from the cab, the operator can adjust the speed of the brooms to suit the environment being swept. With the optional rotatilt, the operator can adjust the angle of the broom for deeper curbline cleaning.

Twin corrosion proof polyethylene water tanks carry 253 gallons of water allowing for a long on station sweeping time before refilling.

An air blast system transfers debris to the suction side of the 90" wide full width sweeping hood. This together with an air knife feature situated across the rear of the hood lifts stubborn debris into the airstream leaving a clear path even at high sweeping speeds.

An in cab controlled vacuum exhaust gate provides the operator with the ability to sweep large litter and bulky items without leaving the driving seat, while the wide diameter 14" nozzle trunkings maximize airflow and allow any larger items to pass easily into the hopper. All of which can be done at sweeping speeds of up to 10 miles per hour with a 140" swept path.

Due to the hood design, the RT655 can sweep in reverse without the need to lift the sweep gear, this allows the operator to sweep over heavily soiled areas several times without the need to turn around or maneuver in the road.



FAR LEFT
SupaWash hand lance

LEFT
Powapack

BOTTOM
Vacuum exhaust gate





The RT655 has a class leading 8.5 cubic yard hopper, complete with an access doors on either side. In addition, an optional 4003 Stainless Steel hopper can be specified complete with anti-corrosion warranty for long term durability. A 55 degree angled hopper floor provides easy discharging of the load without the need for a raker bar.

A range of options can increase productivity and provide increased performance to maximize the versatility of the RT range:

- SupaWash high pressure water system, provides a hand lance to enable cleaning of street fixtures and the machine itself. High pressure jets are positioned at the front of the cab to provide a street flushing option.
- An optional rear mounted catch basin cleaner provides additional flexibility to collect leaves and litter from the side or rear of the sweeper in areas where access is restricted and can be used to empty catch basins.



ABOVE
The RT655

MIDDLE
SupaWash front
spray bar



BOTTOM
Rear mounted catch
basin cleaner



ABOVE
The RT655

RIGHT
High speed
sweeping capability

FAR RIGHT
140" swept path



Environmental Impact

Manufactured in a factory accredited to ISO 14001 for sustainability, Johnston is committed to providing the most environmental way to remove dust and debris from the streets.

Low fuel consumption is a key attribute in reducing carbon foot print and CO₂ emissions. With the mechanical drive system running at maximum efficiency, the fuel consumption is the lowest in its class.

The John Deere engines meet the highest standards for emissions and environmental impact.

With multi-functional options such as street flushing and catch basin cleaning equipment, the RT can do several tasks requiring fewer individual vehicles to meet the demands of a tight budget.

Nearly 100% of the RT range is fully recyclable so when the product eventually retires from service the impact on the environment is kept to a minimum.

Additional Features



MIDDLE
Full service access

BOTTOM
Service ladder
and platform

A wide range of options can increase productivity and provide increased performance to maximize the versatility of the RT range:

- Optional bonded intake duct coated with a rubber liner to reduce wear and tear while reducing noise levels.
- Rotatilt, controlled from inside the cab, allows the tilting of the gutter broom to facilitate cleaning of a variety of curb angles.
- Optional screen shaker is available. An air operated cleaning system, pneumatically shakes the screen via an exterior button reducing debris build up and maintaining the peak performance of the machine.
- Body upgrade to stainless steel, increases the durability of the component and machine in highly corrosive working areas.
- Gutterbroom Extension Override (GEO) option allows the operator to bring the brooms close to the hood for removal of heavy, compacted debris.

Cost of Ownership

The RT range of sweepers operate at the lowest costs while maintaining high productivity. The large 58 gallon auxiliary polyethylene fuel tank allows for increased time on the street feeding the fuel efficient engine and mechanically driven fan.

Maintenance costs are significantly reduced as no belts or high wearing components are required and due, to the sweeper collecting debris through airflow, fewer parts are required to clean the street.

Designed to last in the toughest environments, the RT range hopper is steel, shot blasted with aluminium oxide prior to the application of a strontium based primer followed by a hard wearing top coat. In addition, the sweep gear, powerpack and subframe are shot blasted and electromagnetically powder coated with a durable two part epoxy paint finish. This ensures your sweeper continues to look as good as it performs, retaining a high resale value or longer in-service life.

The RT has the option of a stainless steel hopper to further enhance the durability of the sweeper.



FAR LEFT
High visibility
body prop

LEFT
Standard engine
cowling

BELOW
The RT655





TOP LEFT
Totally accessible for service and inspection

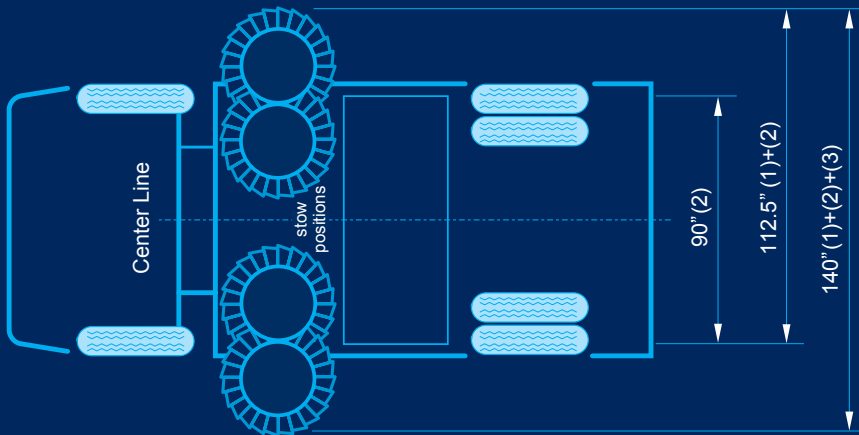
TOP RIGHT
SepaVac dust separator with deluge self-cleaning system

BOTTOM LEFT
Easy to clean & maintain

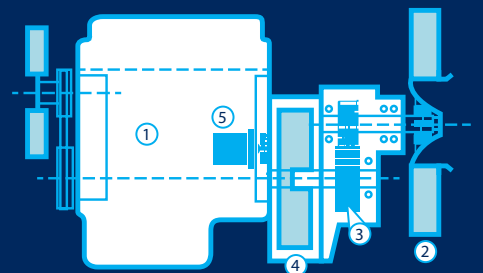
BOTTOM RIGHT
Blast hood with adjustable skirts



Sweeping configurations



RT Range powerpack



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

Outline Specification RT655

Engine: John Deere 4045T Tier 3	Full width hood: 90"
Hopper voided volume: 8.5 cubic yards	Nozzle trunking dia: 14"
Payload voided volume: 7.5 cubic yards	GB life expectancy: 80-100 accumulated
Fuel tank: 58 gallons	Rear door opening angle: 125 degrees
Water tank: 253 gallons	Gutter broom: 43"
Hydraulic system: 20 gallons	

Your local dealer is :

Johnston North America Inc

606 A&B Performance Road
 Mooresville, NC 28115

Tel: +1 704 658 1333

Fax: +1 704 658 1377

E-mail: info@johnstonnorthamerica.com

www.johnstonnorthamerica.com