



# CN101

1m<sup>3</sup> sub-compact sweeper



## The perfect solution when streets and budgets are tight

With all the performance of a large sweeper but in a compact package, the Johnston CN101 is the sweeper of choice for busy shopping and pedestrian areas. It has a turning circle better than any machine in its class and is specifically designed for use in confined spaces with low ground pressure requirements. As part of the Compact family, this new 1m<sup>3</sup> sub-compact perfectly complements our existing range and achieves the same key goals as all Johnston sweepers – including high productivity, low cost of ownership and low environmental impact.

TOP  
Adjustable air  
suspended seat

BOTTOM  
Adjustable steering  
column



Certificate No. FM 83396



Certificate No. EMS 533329



Certificate No. OHS 54760

# CN101 Operator Environment

At Johnston we've always recognised that a comfortable, ergonomic and easy to use operator environment is linked to high productivity and improved sweeper performance. So we've given the CN101 a cab that delivers the lowest levels of operator fatigue in its class through a combination of modern design, robust components and the latest benefits that technology can offer.

**In cab comfort:** Designed around the operator, the CN101 cab is supplied as standard with:

- Adjustable air suspended seat
- Adjustable steering column for both height and rake
- Generous leg and head room
- Easy reach/use control panel
- Soundproofed for lowest noise levels
- Heated windscreen – with high view, and low reflection
- Heated rear view mirrors
- Radio
- In-cab heater
- Walk-through cab giving easy access to both doors

Optional benefits:

- CD/Radio mp3 player
- Air conditioning

#### MIDDLE

Heated windscreen – with wide view and low reflection

#### RIGHT

Under ledge sweeping



**Suspension:** From the ground up, the design of the CN101 is focussed on 'driver ride'. The chassis features independent coil springs and dampers to the front and rubber cone suspension at the rear combined to give a smooth ride, low vibration and stable kerb climbing.

**Braking:** The 'anti lock' hydrostatic braking system with infinitely variable transmission gives a smooth responsive braking system bringing the CN101 to a stable controlled stop.

## CN101 Performance

- A powerful Deutz 3-cylinder oil cooled low emission diesel engine
- Johnston's traditional sweeper brush configuration
- Front facing sweep gear featuring two independently controlled brushes
- Brushes which are ideal for reaching around street furniture with complete clearance of 90° corners
- Each brush having independent pressure control and variable speed functions
- A wide mouth nozzle and leaf flap with clearance for a wide variety of debris
- 50/50 front to rear weight distribution throughout the loading cycle
- A tipping height of 1350mm for discharging into a skip
- A body-prop that automatically engages when the hopper is tipped
- A reversing signal for safe reversing, with standard Night Silent switch





**FAR LEFT**  
Deutz 3-cylinder oil cooled, low emission engine

**LEFT**  
High-visibility body prop

**MIDDLE**  
Suction tube, showing direct route  
from ground level to hopper

**RIGHT**  
Tipping height of 1350mm



## Low cost to the environment, low cost to you

We understand that environmental concerns are integral with cost of ownership and productivity.

Johnson Sweepers is currently the only sweeper manufacturer to achieve accreditation for ISO 14001 (Environment), and we consider all aspects of environmental impact. These range from the production site through to the finished product, its role in cleansing the environment, and eventual end of life disposal.

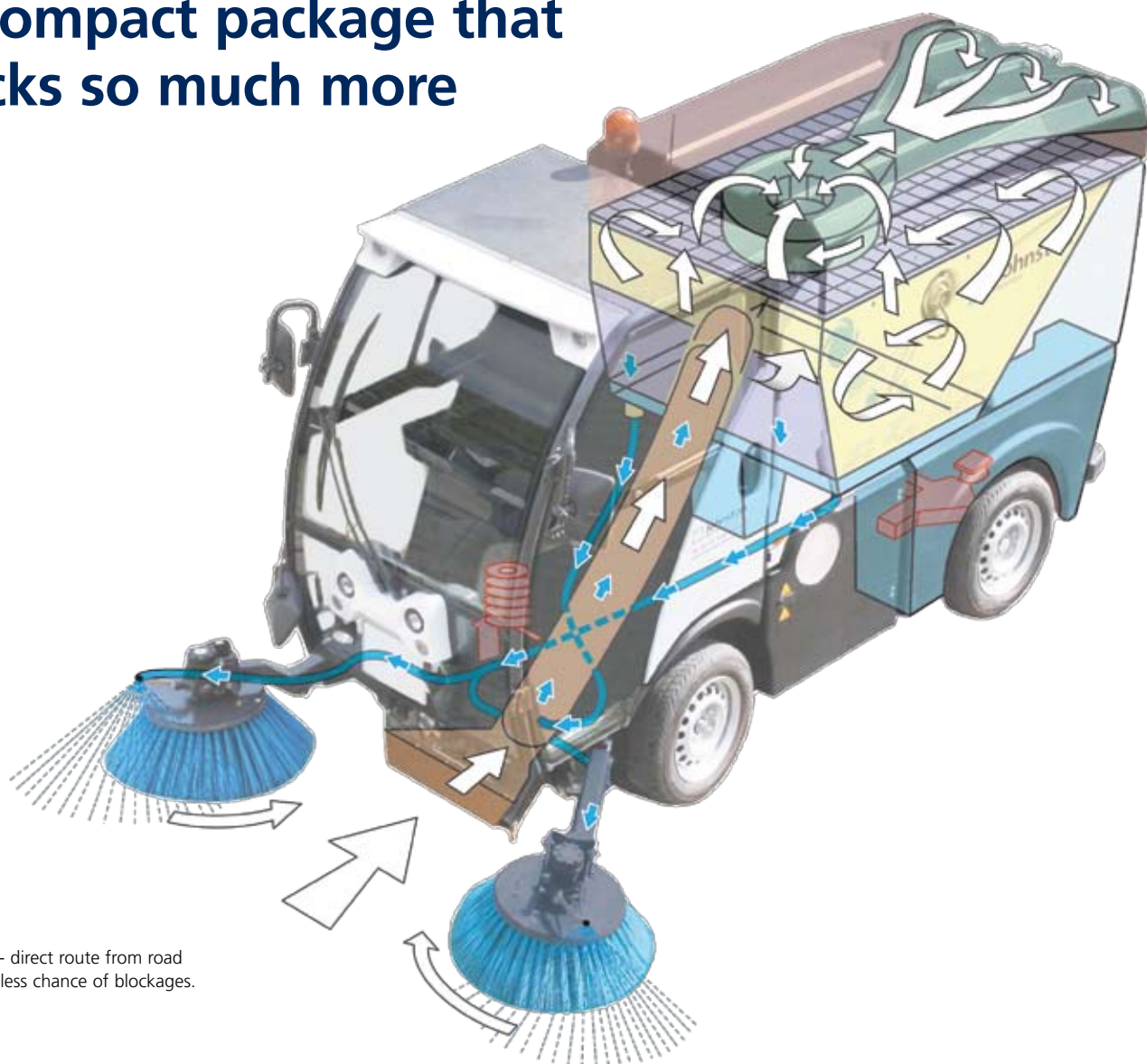
Through the combined administration of all three aspects, we have been able to enhance the environmental features of the CN101 – at the same time as increasing productivity and reducing running costs.

# The CN101 Main Features



- Highest fuel efficiency in its class due to low engine rpm – up to 50% less fuel consumption than other sub-compact sweepers
- Huge reduction in the annual carbon footprint of up to 10 tonnes per annum (based on 2000 hours operation per year)
- Reduced service intervals – the CN101 only requires a service every 1000 hours or once a year – up to five fewer services per year than other sweepers in its class
- Reduced wear and tear to the engine, extending component life and lowering costs associated with routine maintenance and spares
- Lower CO<sub>2</sub> emissions
- Lower noise emissions in cab at only 73 dB(A)
- Air flow through the hopper and out via the fan, gives 100% capacity for litter and debris. Reducing number of tippings per day so more on-station time
- Water recirculation system as standard, reduces water usage by 50% cutting the cost of refilling from metered water sources and increasing on-station time
- Certified to latest EUnited PM10 dust emissions standard
- Low vibration levels to ensure the operator remains productive during the whole shift

# A compact package that packs so much more



Litter duct - direct route from road to hopper, less chance of blockages.

## Optional features:

- Wanderhose for picking up hard to reach litter
- High pressure lance for washing street furniture
- 4-wheel steer – increased agility and a 3.9m turning circle – the smallest in its class
- Air conditioning for increased driver comfort
- Reversing camera with in-cab screen for accurate reversing and tipping
- Radio-CD and MP3 player for increased driver comfort
- Snow plough and spreader winter maintenance equipment

LEFT  
Leaf flap

MIDDLE TOP  
Reversing camera

MIDDLE BOTTOM  
In-cab camera screen

RIGHT  
LED lights, as standard







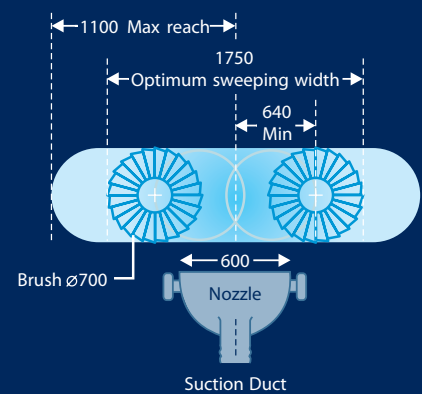
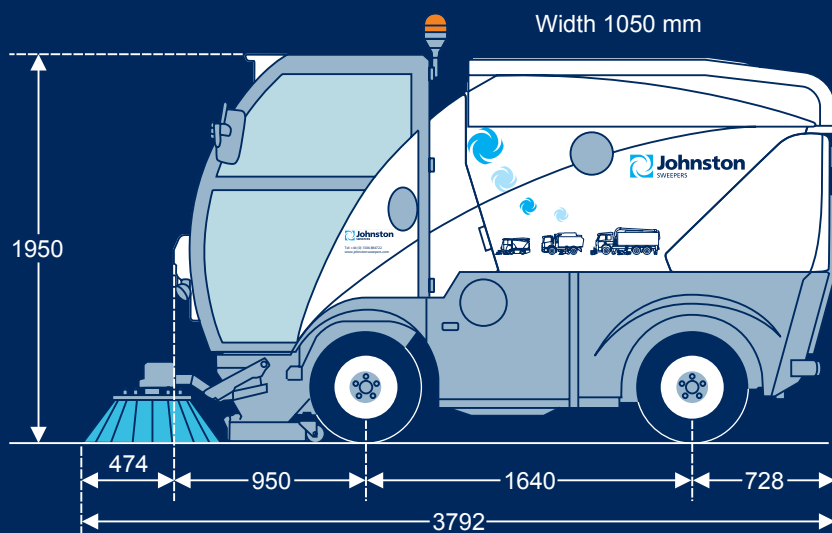
**TOP LEFT**  
3.9m turning circle with  
4-wheel steer option

**TOP RIGHT**  
Optional 4-wheel steer

**BOTTOM LEFT**  
Wanderhose option

**BOTTOM RIGHT**  
High pressure lance option

## Sweeping Configurations



### Outline Specification CN101

**Engine:** Deutz D2011 LO3i Diesel

**Length:** 3792 mm

**Maximum speed:** 25 km/h

**Width:** 1050 mm

**Brush diameter:** 700 mm

**Height:** 1950 mm

**Brush speed:** Variable up to 120 rpm

**Unladen weight:** 1800 kg

**Gradeability:** 20% fully laden

**Payload:** 600 kg - Dependant on options

**Clean water tank capacity:** 225 litres

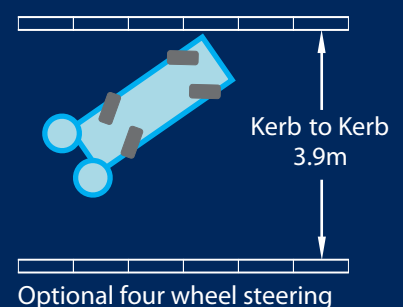
**GVM:** 2400 kg

**Recirculating water system:** 100 litres

**Hopper voided volume:** 1.0 m<sup>3</sup>

**Sweep rate/output @ 16 km/h:** 28,800 m<sup>2</sup>/hr

### Turning circle



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