

Specification Sheet

CN101 SWEEPER

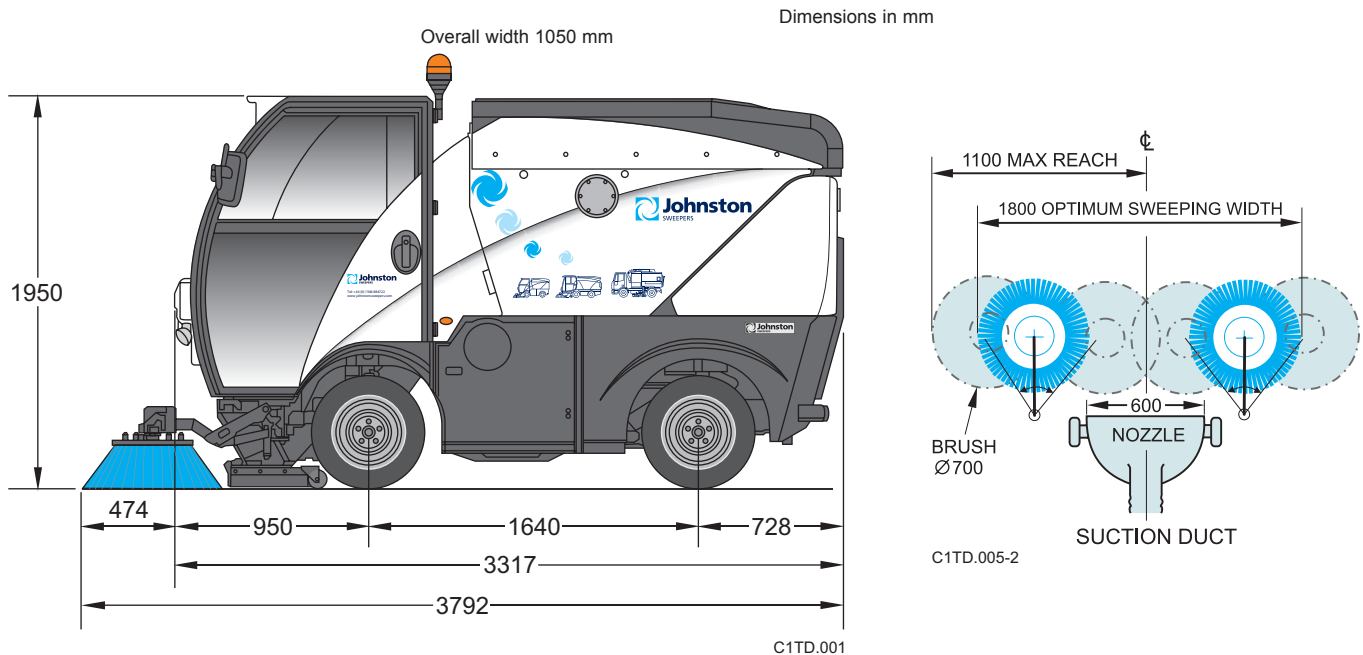
Series CN101

Sheet 1 of 1

Subject Technical Information & Data

Revision: E

Date: 09/09/2016



Data and Performance Information

Engine Data	
Model	Deutz D2011 L03i Direct injection, Oil cooling
Cubic capacity	2.33 litres
No. of cylinders	3 in line
Gross rated power	31 kW @ 2300 rev./min.
Maximum torque	137 Nm @ 1700 rev./min.
Legislation compliance	Meets EU RL 97/68/EC Stage 3A; 2004/26/EC

Performance	
Tare Weight	2000 kg
GVM - Standard machine	2800 kg
Payload	800 kg. - Dependant on options
Maximum speed	25 km/h
Sweeping rpm	850 - 1900 rpm
Transit rpm	up to 2300rpm
Gradeability	20 % fully laden

Sweeping Equipment	
Brush diameter	700 mm
Brush speed	Infinitely variable up to 120 rev./min.
Nozzle width	600 mm
Sweep rate/output @ 16 km/h	28,800 m ² /hr (theoretical max.)
Sweeping width	1500 - 2200 mm
Hopper discharge height	1.35 m

Capacities	
Hopper voided volume	1.0 m ³
Fuel tank	55 litres
Clean water tank	220 litres
Recirculation system	100 litres
Total water system	320 litres

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Due to continuous product development Johnston Sweepers reserves the right to alter specifications without prior notice.

Technical Specification

Transmission:

Full hydrostatic transmission with closed loop circuit and variable angle swash plate piston pump. Drive to front wheels - maximum speed up to 25 km/h.

Engine Control:

Mechanical engine control. Forward / reverse selection with lever on the steering column.

Electrics:

12 volt system with 80 amp alternator.

Suspension:

Front: Coil springs with hydraulic dampers.

Rear: Double cone rubber springs.

Steering:

Front wheel steering

Kerb to kerb:

Turning circle 6.0m.

Optional:

4-wheel-steering

Kerb to kerb:

Turning circle 3.9m.

Tyre Size:

Front: 165/70 R13C.

Rear: 165/70 R13C.

Brakes:

Front: Hydrostatic transmission braking.

Rear: Hydraulic drum brakes with integral parking brake.

Parking: Hand lever parking brake.

Noise:

In cab: Noise between 72 – 75 dB(A) depending on operating speed.

External: Maximum L_{WA} of 103 dB(A) measured in accordance with Directive 2000/14/EC

Impeller:

High pressure centrifugal fan unit mounted to hopper roof provides powerful suction means for the pickup nozzle and dust conveying system. Driven by hydraulic motor with integrated heavy support bearings. Dynamically balanced multivane low noise fan impeller with wear resistant self cleaning blades.

Hopper:

Hopper material 1.4003 stainless steel.

Discharge width 0.99 m.

With integrated recirculation water tank.

Nozzle:

Wheeled suction nozzle between axle, in front of the front wheels. Special trailed linkage allows nozzle to 'ride over' objects without damage. Selecting reverse automatically stows the nozzle to prevent accidental damage.

Cab:

Heater: Air filter for cab air.

3 level fan.

Option of air conditioning.

Visibility: 3 tier windscreen wiper system. Interval + 2 stages. Screen cleaning system. Worklights as standard. Reverse light as standard. One 360° knockdown beacon. Heated windscreen & side mirrors.

Seating: Single Seat. Fully adjustable air suspension cloth covered driver's seat with adjustable back support.

Controls: Ergonomically designed for driver comfort with all switches located according to function. An arm rest contains all sweeping related controls. Automatically re-settable directional indicators. Low beam light. In cab water taps for brushes and suction nozzle.

Vibration:

Soundproofed cab with a structural steel frame, mounted on hydraulic anti-vibration mounts.

Standard machine features:

500 hour service intervals.

Fully PM10 EUnited Compliant

Vibration: All dynamic prime mover components have been resiliently mounted to minimise vibrations. Vibration levels in accordance with 89/392/EEC as amended & according to ISO2631-1 (Body-Vibrations) & EN ISO 5349-1 (Hand-Arm-Vibrations).

Reverse Warning:

Audible warning device with night silent override.

Safety:

High visibility safety prop with automatic deployment and manual retract, in addition to a hydraulic check valve.

Working Temperature:

50°C to - 20°C

Maximum Humidity:

90%

Options:

Spare Wheel.

Wanderhose with 4.8m reach.

'Supawash': High pressure washing hand lance & pump. (10.5 L/min @ 100 Bar).

Low pressure wash down hose.

Hydrant hose, standpipe & key.

CD/MP3 Radio.

Air conditioning.

First aid kit.

2 kg dry power fire extinguisher.

5.6 Inch colour flat screen with reverse camera system.

2 point inertia lap seat belt.

Four wheel steering.

Battery isolator.

Poly-steel brush (in lieu of standard).