

# Specification Sheet

# CN200 SWEEPER

**Series** CN200 Euro 5 / Stage 3a Engine

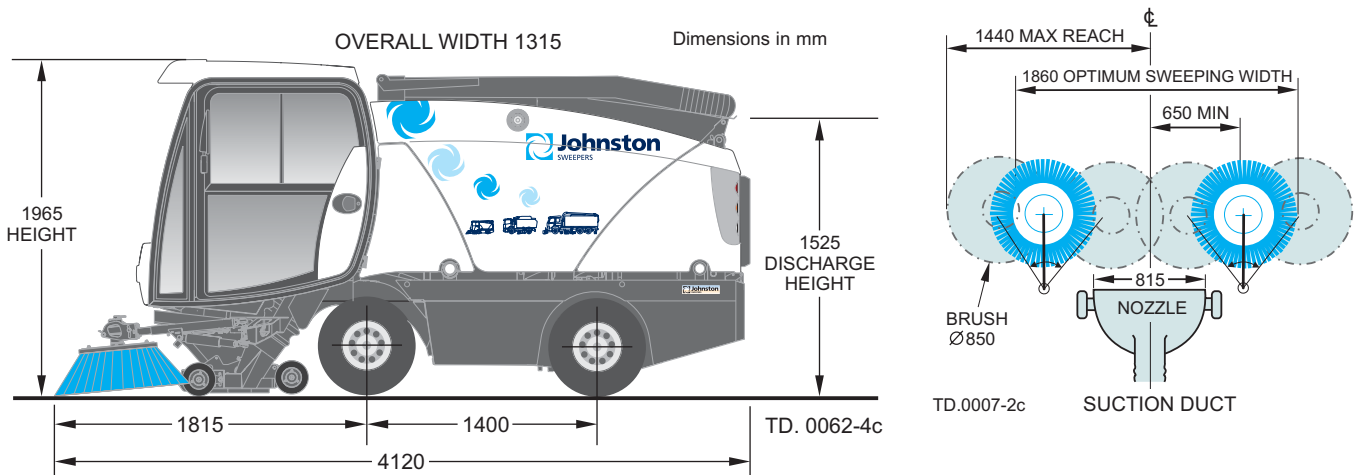
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**Subject** Technical Information & Data

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## Data and Performance Information

Engine Option Euro 5	
Model	VM R754 EU5 05D/9 common rail direct injection turbocharged and intercooled diesel engine
Cubic capacity	2.970 litres
No. of cylinders	4
Gross rated power	62 kW (83 bhp) @ 2300 rev./min.
Maximum torque	270 Nm (199 lb.ft.) @ 1400 rev./min.
Legislation compliance	Meets Euro 5 emissions legislation Directive 2005/78/EC

Engine Option Stage 3a	
Model	VM D754 TE3 83C/4 Direct injection, turbocharged diesel engine
Cubic capacity	2.970 litres
No. of cylinders	4
Gross rated power	58 kW (78 bhp) @ 2300 rev./min.
Maximum torque	274 Nm (202 lb.ft.) @ 1800 rev./min.
Legislation compliance	Meets Euro legislation Directive 2004/26/EC - Stage 3 & EPC Stage 3a

Sweeping Equipment	
Brush diameter	850 mm
Brush speed	Variable up to 125 rev./min.
Nozzle width	815 mm
Hopper discharge height	1.525 m

Performance	
Tare Weight	2700 kg.
GVM	4000 kg.
Payload	1300 kg. - Dependant on options
Maximum speed	Up to 40 km/h
Sweeping speed	0.5 to 16 km/h
Sweep rate/output	29,760 m <sup>2</sup> /hr (theoretical)
Gradeability forwards	Up to 30%
Sweeping operational rpm	1100 - 1480 rpm
Transit operational rpm	Up to 1750 rpm

Capacities	
Hopper voided volume	1.8 m <sup>3</sup> , 4003 stainless steel hopper
Payload capacity	1.5 m <sup>3</sup>
Fuel tank	51 litres
Lost water tank	157 litres
Recirculation system	250 litres

Johnston Sweepers Limited, Curtis Road, Dorking, Surrey RH4 1XF, UK  
Tel: +44 (0) 1306 884722 Fax: +44 (0) 1306 884151  
www.johnstonsweepers.com E-mail: enquiries@johnstonsweepers.com



# Technical Specification

## Transmission:

Full hydrostatic transmission with closed loop circuit and variable angle swash plate piston pump. Maximum transit speed up to 40 km/h. Sweeping speeds up to 16 km/h.

## JET Engine Control:

Innovative Johnston microprocessor transmission control system providing full automotive drive in transit mode, forward / reverse selection with slower "tortoise" speed feature for sweeping applications with anti-stall software.

## Electrics:

12 volt system with 85 amp alternator.

## Suspension Standard:

Front: Fully articulated shock rubber mounted steering axle. Suspension by trailing wishbone with rubber cone springs and hydraulic dampers.

Rear: Swinging link suspension member with rubber cone springs.

## Glide Suspension Option:

Standard for UK, Option for Rest of the World.

Four wheel coil spring suspension with gas over oil dampers and a front mounted anti-roll bar.

## Steering:

Full hydraulic power steering.  
Turning Circle 3850mm kerb to kerb.

## Tyre Size:

Front: 6.50 R10 Radial tyres  
Rear: 225/75 R10 Radial tyres  
Wide profile tyres give low ground pressure.

## Brakes:

Front: Servo assisted hydraulic drum brakes with dual circuits between front and rear for added braking security.  
Rear: Hydraulic drum brakes with integral parking brake.

## Noise:

In cab: Noise between 71-73 dB(A), depending on operating speed.  
External: Maximum  $L_{WA}$  of 103 dB(A) measured in accordance with Directive 2000/14/EC.

## Vibration:

The vector sum weighted root means square acceleration values ( $a_{h,w}$ ) during recommended sweeping/washing activities do not exceed 2.5 m/s<sup>2</sup> for hand-arm vibration and 0.5 m/s<sup>2</sup> for whole body vibration.

## Impeller:

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

## Cab:

Heater: Recirculating and fresh air blend heater with adjustable vents.  
Visibility: Fully glazed with tinted safety glass. Electrically heated "Quick-clear" windscreen. Single pantograph twin speed plus intermittent windscreen wiper and screen washer.  
Seating: Fully adjustable air suspension cloth covered driver's seat with adjustable back support. Rigidly mounted passenger seat.

Controls: Ergonomically designed for driver comfort.  
Switches located according to function. Overhead console incorporating lighting switches, stereo CD/radio and CANview screen.  
A rear console containing ignition switch, tipping controls, suction fan and water switches.  
A new arm rest containing all sweeping related controls for brushes, engine speed, brush balance, cruise control etc., is conveniently placed near to the driver.

## Standard machine features:

CANview Display System: Alerts the driver in the event of a system problem, also records engine hours.

Beacon: Standard rotating with knock down feature.

Independent brush control.

Stereo Radio CD Player with 45 watt dual cone speakers.

Reverse Warning: Audible warning device with night silent override.

Self Steering Wheeled Nozzle: With non marking replaceable rubber tyres.

## Options:

Air conditioning.

Autolube grease system (Tecalemit).

CCTV reverse camera system.

Hydrant hose, standpipe & key.

Leaf flap on nozzle for ingestion of leaves.

Radio/CD/sat nav upgrade.

Rear arrow board of 300 mm diameter.

Rear towing attachment.

Spare wheel & jack.

Supawash: High pressure washing hand lance and pump (9 litres @ 68 bar).

Sweep performance monitor - provides information on total distance travelled, distance travelled while sweeping and hours sweeping.

Wanderhose: Roof mounted with 3.7 metre reach.

3.5 tonne GVM - down rated sweeper option.