# **Specification Sheet**

## CX200 SWEEPER

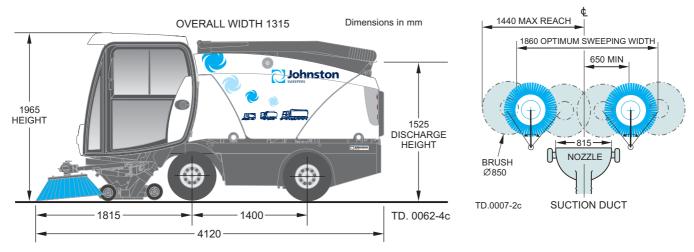
Series CX200 Euro 5 / Stage 3a Engine

Subject Technical Information & Data

Sheet 1 of 1

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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

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

Performance	
Tare Weight	2700 kg.
GVM	4000 kg.
Payload	1300 kg Dependant on options
Maximum speed	Up to 50 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 2250 rpm

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## **Technical Specification**

#### **Transmission:**

Full hydrostatic transmission with closed loop circuit and variable angle swash plate piston pump. Maximum transit speed up to 50 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 antistall 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<sub>WA</sub> 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/s² for hand-arm vibration and 0.5 m/s² 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 "Quickclear" 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 with sweep performance

monitor.

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, total distance travelled, distance travelled while sweeping and hours sweeping.

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).

Wanderhose: Roof mounted with 3.7 metre reach.

 $3.5\ tonne\ GVM$  - down rated sweeper option.





