

Specification Sheet

C201 SWEEPER

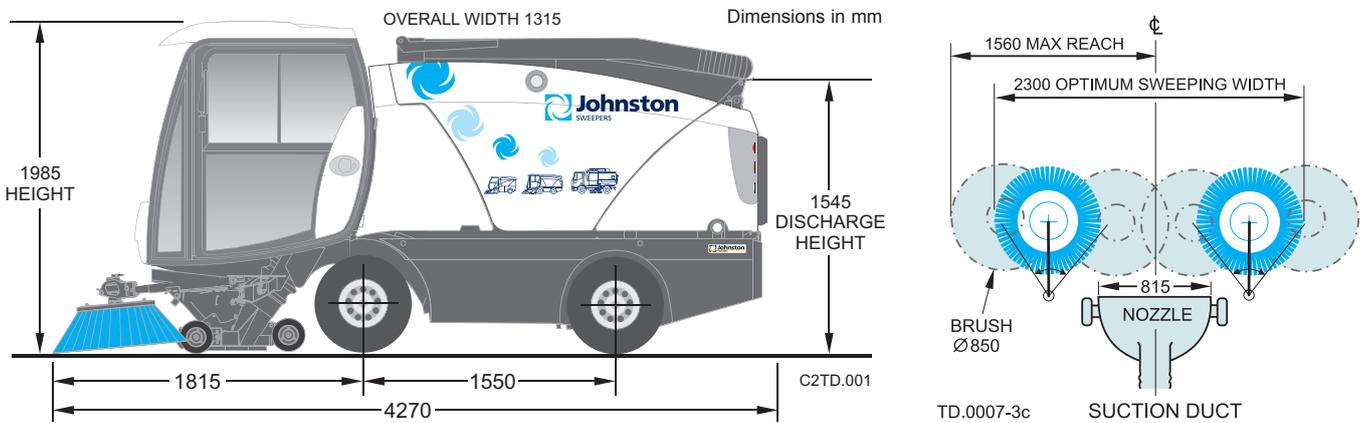
Series C201 (CN/CX)

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Subject Technical Information & Data

Revision: A

Date: 18.05.2016



Data and Performance Information

Engine Option Euro 6	
Model	R754 E6 (60D/14) 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.) @ 1350 rev./min.
Legislation compliance	Regulation (EC) No 595/2009 & Regulation (EU) No 582/2011, as last amended by (EU) No: 64/2012

Engine Option Stage 3b	
Model	VM R754 ISE4 (39D/2) Direct injection, turbocharged diesel engine
Cubic capacity	2.970 litres
No. of cylinders	4
Gross rated power	55 kW (74 bhp) @ 2300 rev./min.
Maximum torque	310 Nm (228 lb.ft.) @ 1100 rev./min.
Legislation compliance	Directive 97/68/EC as last amended by Directive 2011/88/EC

Engine Option Stage 3a	
Model	VM D754 TE3 (83/4) 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	Directive 97/68/EC as last amended by Directive 2004/26/EC

Capacities	
Hopper voided volume	1.8 m ³ , 1.4003 stainless steel hopper
Payload capacity	1.5 m ³
Fuel tank	52 litres
Clean water tank	152 litres (E6) 175 litres (3b & 3a)
Recirculation system	250 litres
Total water systems	402 litres (E6) 425 litres (3b & 3a)

Performance	
Tare Weight	2800 kg (E6) (dependant on option) 2700 kg (3b & 3a) (dependant on option)
GVM	3500 kg. 4000 kg. *4500 kg. (*Where local homologation allows)
Payload	700 kg. 1200 kg. 1700 kg. (E6) 800 kg. 1300 kg. 1800 kg. (3b & 3a) (dependant on options)
Maximum speed	CN: Up to 40 km/h - CX: Up to 50 km/h
Sweeping speed	0 to 16 km/h
Sweep rate/output	36,800 m ² /hr (theoretical max)
Gradeability forwards	Up to 30%
Sweeping operational rpm	1000 - 1480 rpm
Transit operational rpm	Up to 2250 rpm

Sweeping Equipment	
Brush diameter	850 mm
Brush speed	Variable up to 125 rev./min.
Nozzle width	815 mm
Hopper discharge height	1545 mm

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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. Maximum transit speed up to 40 km/h. Sweeping speeds up to 16 km/h.

Engine Control:

Innovative Johnston transmission control system providing full automotive drive in transit mode, forward / reverse selection with work mode speed feature for sweeping applications.

Electrics:

12 volt system with 105 amp alternator.

Glide Suspension Standard:

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

Steering:

Full hydraulic power steering.

Standard Turning Radius

2WS 2510mm kerb to kerb.
3730mm wall to wall.

Optional 4-wheel steering system.

4WS 2010mm kerb to kerb.
3400mm wall to wall.

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 67-75 dB(A), depending on operating speed.

External: Under sweeping conditions
74 - 78 dB(A).

Maximum L_{WA} of 104 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 "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 radio/mp3 player and 7 inch full-colour JVM screen.

A rear console containing ignition switch, tipping controls, suction fan and water switches.

Arm rest containing all sweeping related controls for brushes, engine speed, brush balance, cruise control etc., is ergonomically positioned near to the driver.

Standard machine features:

JVM Display System (7 inch full-colour): Alerts the driver in the event of a system problem, also records various data which may be downloaded via USB, 'Data Capture' feature as standard.

Beacon: Standard rotating with knock down feature.

Independent brush control.

Stereo Radio MP3 Player c/w USB interface 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:

4-Wheel steering system to increase manoeuvrability.

Air Conditioning.

Autolube grease system.

Integrated reverse camera system.

Climate control.

Hydrant kit c/w hose, standpipe & key (UK).

Leaf flap for ingestion of leaves.

Nozzle with castor wheels.

Radio/CD upgrade.

Rear arrow sign board 300 mm diameter.

Rear Tow attachment.

Spare wheel.

Supawash: High pressure washing system (9 litres @ 68 bar) c/w hand lance, reel and 10m hose.

Third brush unit for second level sweeping or extended swept width.

Wanderhose: Roof mounted with 3.7 metre reach.

Winter Equipment: Snow plough, snow broom, rear-mounted gritter/spreader.

Full list of options available on price list.