

# Specification Sheet

# C401 SWEEPER

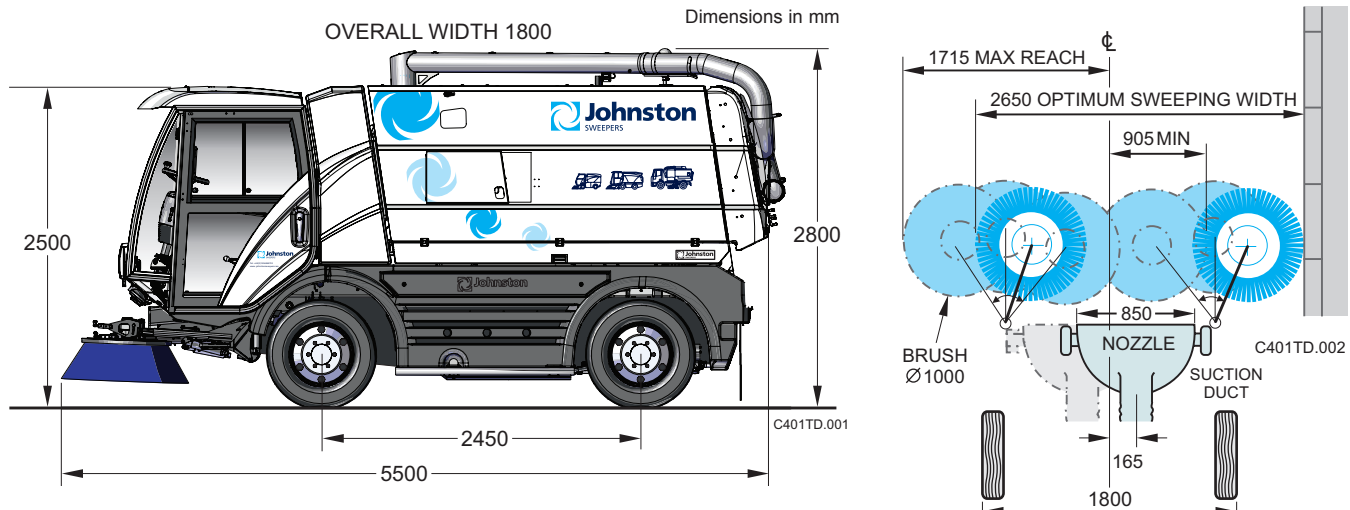
**Series** C401 (CN/CX)

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**Subject** Technical Information and Data

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## Data and Performance Information

Engine Option Euro 6	
Model	FPT (Iveco) NEF 46 ENT VI Common rail direct injection turbocharged diesel
Cubic capacity	4.5 litres
No. of cylinders	4
Gross rated power	118 kW (158 bhp) @ 2500 rev./min.
Maximum torque	580 Nm (428 lb.ft.) @ 1250-1940 rev./min.
Legislation compliance	Regulation (EC) No 595/2009 and Regulation (EU) No 582/2011, as last amended by (EU) No: 64/2012

Sweeping Equipment	
Brush diameter	1000 mm
Brush speed	Variable up to 125 rev./min.
Nozzle width	850 mm
Sweep rate/output	42,400 m <sup>2</sup> /h (theoretical)
Hopper discharge height	940 mm
Hopper discharge height	High dump up to 1550 mm

Performance	
Tare - std machine	5500 kg. approx
GVM - std machine	10,500 kg
Payload - std machine	5000 kg. - dependent on options
Tare - high dump	5700 kg.
GVM - high dump	10,500 kg.
Payload - high dump	4800 kg. - dependent on options
Hopper discharge angle	50°
Maximum speed	CN: Up to 50 km/h - CX: Up to 80 km/h
Sweeping speed	0 to 16 km/h
Gradeability	22% @ GVM 10,500 kg
Sweeping operational rpm	1100 - 1800 rpm
Transit operational rpm	Up to 2200 rpm

Capacities	
Hopper envelope volume	5.6 m <sup>3</sup> , 1.4003 stainless steel hopper
Hopper voided volume	4.1 m <sup>3</sup> EN15429-1
Payload capacity	3.8 m <sup>3</sup> EN15429-1
Fuel tank	110 litres
AdBlue tank	36 litres
Lost water tank	825 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 axial piston pump and motor. Maximum transit speed up to 80 km/h (50 mph) and maximum sweeping speed of 16 km/h (10 mph).

### Engine Control:

Innovative Johnston transmission control system providing full automotive drive in transit mode, forward / reverse selection with workmode speed feature for sweeping applications complete with torque management system optimised for fuel consumption.

### Electrics:

24 volt system with 90 amp alternator.

### Suspension:

Front: Linkage system comprising V link and two reaction rods, plus axially mounted coil springs and bump stop with shock absorbers.  
Rear: Two multi leaf springs with shock absorbers.

### Steering:

4WS standard in workmode.  
Turning radius 2950 mm kerb to kerb.

### Tyre Size:

Front: 265/70 R19.5 Radial ply tyres.  
Rear: 265/70 R19.5 Radial ply tyres.

### Brakes:

Power assisted hydraulic disc brakes with a front-rear split coupled with a rear axle load apportioning valve.

Front: Twin four piston disc brakes fitted to each wheel.

Rear: Single four piston disc brakes fitted to each wheel.

Parking: Transmission disc brake on the drive motor shaft is operated by a c a b mounted handbrake.

### Noise:

In cab: Noise between 70-74 dB(A), depending on operating conditions.

External: Maximum LWA of 109 dB(A) measured in accordance with directive 2000/14/EC, maximum LWA of 106 dB(A) measured in accordance with Directive 2000/14/EC with Optional Quiet Pack fitted.

### Impeller:

High pressure centrifugal Ø900 mm 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 bearing. Dynamically balanced multivane low noise fan impeller with wear resistant blades.

### Hopper:

All 1.4003 stainless steel welded construction combining the suction fan impeller, patented low noise exhaust air évasé, filter meshes and debris collection hopper

### Nozzle:

The nozzle has an adjustable leaf flap as standard and slews toward the side of sweeping.

### Cab:

Heater: Recirculating air type with face and floor level vents with fresh air intake option.

Visibility: Fully glazed with tinted safety glass. Heated laminated windscreen. Twin pantograph two speed electric windscreen wipers with intermittent wipe and electric screen washer.

Seating: Fully adjustable air suspension cloth covered driver's seat with adjustable back support and passenger seat with 3 point seat belts.

Controls: Ergonomically placed switches, clustered according to function. Adjustable arm rest incorporating sweeping controls. Overhead console incorporating lighting switches, radio/MP3 player & 7" full colour JVM screen.

### Standard Machine Features:

Full diagnostic and driver alert system.

Key performance data capture, downloadable to USB.

Beacon: Two rear of cab mounted rotating and two LED's to the rear panel.

Hopper tipping pendant control giving safe observation of the tipping zone.

Independent brush pressure control and positioning.

Reverse warning: Audible warning device with night silent override.

Weight load indicator.

Wheeled nozzle with replaceable rubber tyres.

### Options:

Air conditioning - R134a refrigerant.

3rd seat - centre folding.

Automatic lubrication system.

Integrated reverse camera system.

High dump 1.55m discharge height - load discharge into skips etc.

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

Rear arrow sign board 600 mm diameter.

Spare wheel.

Supawash: High pressure washing system (28 litres @ 100 bar) c/w hand lance, reel, 10m hose.

Third brush unit - demountable, 4 Axis, dual rotation brush.

Rotatilt Side Brush Option.

Wanderhose: roof mounted with 4-5 metre, 270° working radius or Littasnatch: side mounted flexible duct for litter collection.

Water Recirculation.

Electronic battery isolator.

**Full list of options available on price list.**

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