

# Specification Sheet

# CN401 SWEEPER

**Series** CN401 Euro 6 / Stage 3a Engine

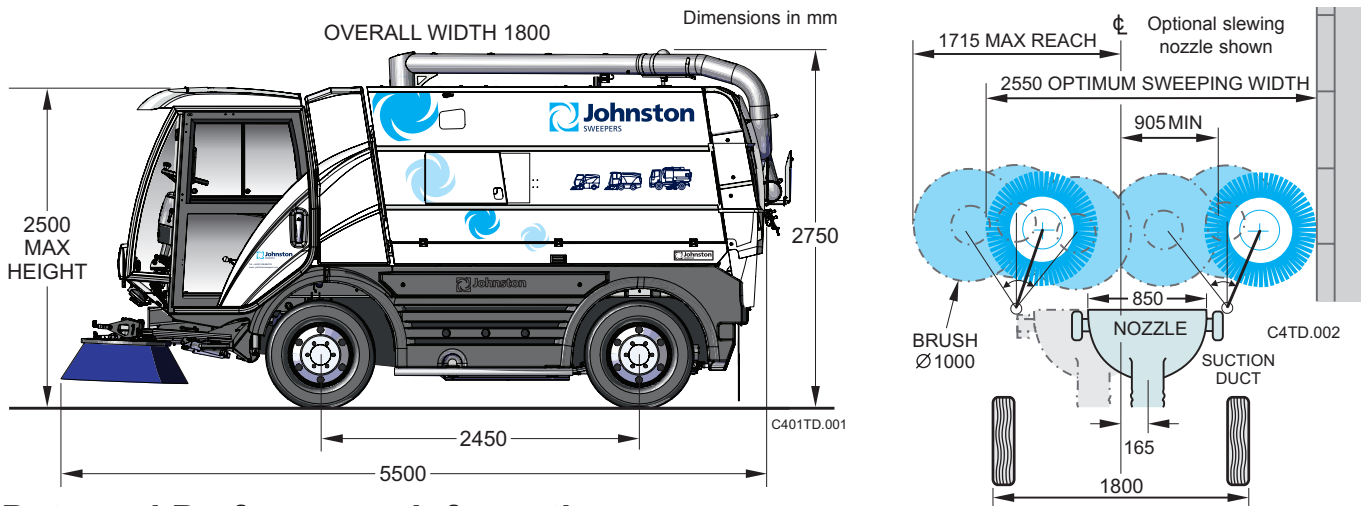
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**Subject** Technical Information and Data

Part / Revision: xxxxxx / A

Date: xx.xx.xxxx

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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 (391 lb.ft.) @ 1250-1940 rev./min.
Legislation compliance	Meets Euro 6 emissions legislation Directive 2005/55/EC

Engine Option Stage 3a	
Model	FPT (Iveco) N45 ENT Common rail direct injection turbocharged diesel
Cubic capacity	4.5 litres
No. of cylinders	4
Gross rated power	104 kW (141bhp) @ 2200 rev./min.
Maximum torque	560 Nm (413 lb.ft.) @ 1400 rev./min.
Legislation compliance	Meets Euro legislation Directive 2004/26/EC Stage 3

Sweeping Equipment	
Brush diameter	1000 mm
Brush speed	Variable up to 125 rev./min.
Nozzle width	850 mm
Sweep rate/output	40,000 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	25 - 50 km/h (dependant on options)
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 voided volume	4.1 m <sup>3</sup> , 4003 stainless steel hopper
Payload capacity	3.8 m <sup>3</sup>
Fuel tank	110 litres
AdBlue tank	36 litres (N/A with Stage 3a engine)
Lost water tank	825 litres

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# 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 50 km/h (30 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 slower "tortoise" speed feature for sweeping applications complete with anti-stall features and torque management system optimised for fuel consumption.

## Electrics:

24 volt system with 95 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 single parabolic leaf springs, rubber cone spring assistors acting as bump stops.

## Steering:

4WS standard in workmode.

Turning circle radius 2950 mm kerb to kerb.

## Tyre Size:

Front: 245/70 R19.5 Radial ply tyres.

Rear: 245/70 R19.5 Radial ply tyres.

## Brakes:

Power assisted hydraulic disc brakes with split circuit for added security on front axle as standard.

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 hand mounted handbrake.

## Noise:

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

External: Maximum  $L_{WA}$  of 106 dB(A) measured in accordance with Directive 2000/14/EC.

## Impeller:

High pressure centrifugal 900 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.

## 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 matching 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:

Attention warning system: Alerts the driver in the event of a system problem.

Beacon: One cab mounted, 2 LED to the rear panel.

Hopper tipping pendant control: Giving safe observation of the tipping zone.

Independent brush pressure control and positioning.

Stereo radio/MP3 player with 45 watt dual cone speakers & USB interface.

Reverse warning: Audible warning device with night silent override.

Weight load indicator.

Wheeled nozzle with replaceable rubber tyres.

## Options:

Air conditioning - R134a refrigerant.

3rd cab passenger seat.

Autolube grease system (Interlube).

Integrated CCTV reverse camera system.

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

Hydrant hose, standpipe and key (UK).

Slewing nozzle.

Rear arrow board of 600 mm diameter.

Spare wheel and jack.

Supawash: high pressure washing hand lance and pump (28 litres @ 100 bar).

Demountable third brush option - 5 Axis, dual rotation brush.

Rotatilt Side Brush Option.

Wanderhose: roof mounted with 4-5 metre, 360° working radius or Littasnatch: side mounted flexible duct for litter collection.

Recirculating water system.

Electronic battery isolator.

Additional quiet pack.