

Specification Sheet

CN400 SWEEPER

Series CN400 Euro 5 / Stage 3a Engine

Subject Technical Information and Data

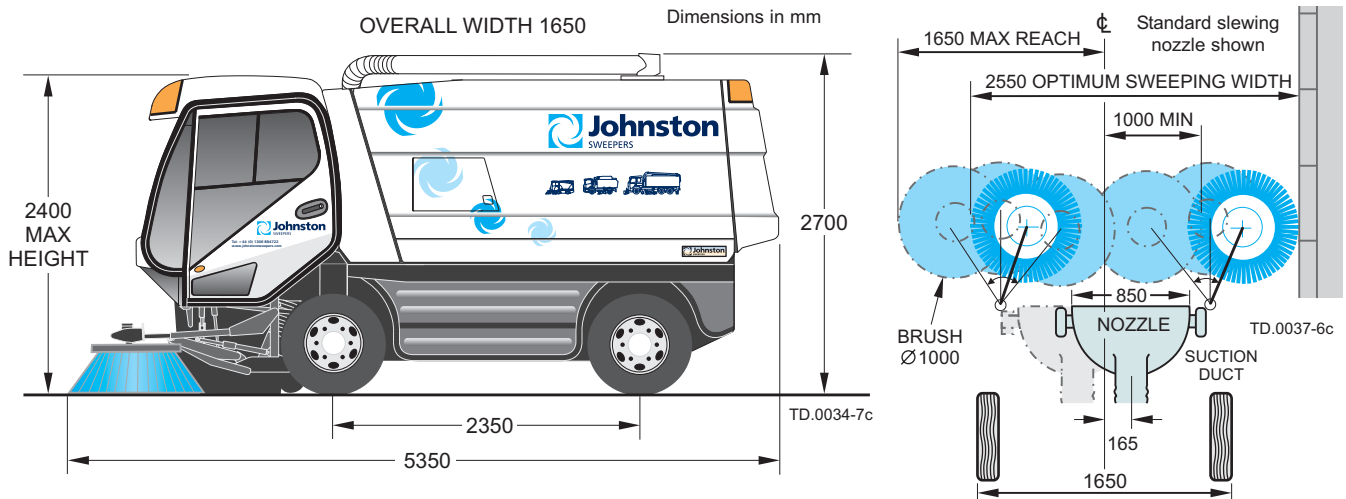
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Data and Performance Information

Engine Option Euro 5	
Model	Iveco N40 ENT Common rail direct injection turbocharged diesel
Cubic capacity	3.92 litres
No. of cylinders	4
Gross rated power	118 kW (158 bhp) @ 2700 rev./min.
Maximum torque	530 Nm (391 lb.ft.) @ 1200 rev./min.
Legislation compliance	Meets Euro 5 emissions legislation Directive 2005/55/EC

Engine Option Stage 3a	
Model	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 & USA EPA Tier 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 ² /h (theoretical)
Hopper discharge height	Standard 1.1 metre
Hopper discharge height	High dump up to 1.8 metre high skips

Performance	
Tare - std machine	4940 kg.
GVM - std machine	7500 kg.
Payload - std machine	2560 kg. - dependent on options
Tare - high dump	5240 kg.
GVM - high dump	7500 kg.
Payload - high dump	2260 kg. - dependent on options
Maximum speed	25 to 50 km/h (country dependent)
Sweeping speed	0.5 to 16 km/h
Gradeability	24% @ GVM 7500kg
Sweeping operational rpm	1200 - 1800 rpm
Transit operational rpm	Up to 2200 rpm

Capacities	
Hopper voided volume	4.1 m ³ , 4003 stainless steel hopper
Payload capacity	3.6 m ³
Fuel tank	95 litres
Ad Blue tank	20 litres (N/A with Stage 3a engine)
Lost water tank	600 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 40 km/h (25 mph) and maximum sweeping speed of 16 km/h (10 mph).

MegaJET 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.

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:

Full power assisted steering, 55° steering lock angle.

Turning circle 7700 mm kerb to kerb.

Tyre Size:

Front: 245/70 R17.5 Radial ply tyres.

Rear: 245/70 R17.5 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 cab mounted handbrake.

Noise:

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

External: Maximum L_{WA} of 109 dB(A) measured in accordance with Directive 2000/14/EC.

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 bearing. Dynamically balanced multivane low noise fan impeller with wear resistant blades.

Hopper:

All 4003 stainless steel welded construction combining the suction fan impeller, filter meshes and debris collection hopper

Nozzle:

The nozzle is offset to the hand of sweep selected and 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, CANview display and radio/MP3 player.

Central control deck containing ignition switch, water switch and heater controls.

Hopper tipping pendant.

Door mounted switches for suction fan and Supawash.

Standard Machine Features:

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

Beacon: Four rotating beacons mounted on each corner of the bodywork.

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.

Reverse warning: Audible warning device with night silent override.

Weight load indicator.

Wheeled nozzle with replaceable rubber tyres.

Options:

Air conditioning - R134a refrigerant.

Autolube grease system (Tecalemite).

Battery isolator.

CCTV reverse camera system.

High dump - load discharge into skips.

Hydrant hose, standpipe and key.

Non-slewing nozzle.

Radio/Sat Nav upgrade.

Rear arrow board of 600 mm diameter.

Rear towing attachment.

Spare wheel and jack.

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

Third brush.

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