



C400

Mid-sized sweeper



The mid-sized sweeper with big ideas

A Johnston C400 mid-sized sweeper at 7.5 tonnes provides the best of both worlds, with the manoeuvrable dimensions of the compact range combined with the heavy duty suction performance of a truck mounted sweeper – an ideal combination for sweeping urban areas where large hopper capacity and compact agility are equally important.



Certificate No. FM 83396



Certificate No. EMS 533329



Certificate No. OHS 54760

LEFT
C400 – Inner city sweeping

MIDDLE
Floor panel view
of brushes

BOTTOM
Large cab and wide
view windscreen



Operator Environment

Johnston Sweepers is dedicated to achieving the highest productivity from our sweepers. Johnston is confident that enhanced operator comfort directly relates to productivity and equipment performance, so our sweepers are designed to give the best driver comfort and ease of operation.

The cab design of the C400 achieves space, wide screen visibility, ease of use and comfort from a range of standard and optional benefits:

- Air suspension adjustable seat with lumbar support
- Optional heated seat
- Telescopic soft-feel steering wheel with rake and height adjustment
- Power assisted steering
- Full automotive suspension
- Heated and tinted windscreen
- Cruise-control feature reduces operator effort
- Clear glass floor panels for increased visibility
- Integrated air conditioning option
- In-cab heating
- In-cab radio
- Disc braking, front and rear
- Hydraulically operated disc handbrake

The CANview system displays in-cab on a screen giving information on the status of all sweeper functions – from engine speed and temperature to the hours and miles swept, and diagnostic fault finding capability.

The C400 features a palm-rest control panel which allows operators to control the sweeping functions of the machine from a single large buttoned keypad which is easy to operate – even in gloves.

The hopper body incorporates noise suppression ducts to minimise noise without compromising performance.

Performance & Productivity

Available in a range of transit speeds up to 80 km/h (50 mph). The C400 range is designed and built to the exacting standards required by demanding municipal environments.

THIS PAGE
Narrow dimensions
and short wheelbase
makes the C400 ideal
for inner city use



With heavy duty suction power, a class leading 2400 kg payload and vehicle width of only 1650 mm on a short wheelbase, the C400 provides capacity and agility without compromise. At ease in heavy duty cleansing environments and crowded streets, the C400 easily cleans the urban/inner city environment.

The front facing brushes can reach hard to reach areas, and the fingertip control with unrivalled visibility of the brushes and nozzle, makes the sweeping manoeuvrability comparable to the compact sweeper.

With the 4.1 m³ hopper and an optional water hydrant feature of the C400 achieves increased on-station working and reduces 'tip runs', giving an immediate extension to productivity and a simultaneous reduction in running costs.

OPPOSITE PAGE
Suitable for
specialist surfaces



The sweepgear configuration of two 1000 mm front facing brushes is ideal for efficient cleaning of blind alleys, 90° corners and around parked cars. Or, choose the optional third brush system for a dual sweeping function of sweeping road and pavement simultaneously, or our speciality weed rip brush technology. Add lightweight design and an acute steering lock and you have superb handling and manoeuvrability to negotiate tight spaces. An additional advantage of the C400 is the large tyre footprint making the C400 ideal for cleaning expensive paving surfaces.

With sweeping speeds up to 16 km/h, combined with transit speeds up to 80 km/h and a wide 3300 mm brush reach, the C400 can achieve the same mileage and work of two smaller sweepers for lower operational costs.



TOP
Ideal for sweeping inner city streets

MIDDLE
Manoeuvres around obstacles and street furniture

BOTTOM
Transit speeds up to 80 km/h

Low Environmental Impact

Dust suppression and air quality

Street sweeping raises dust which needs to be collected before it adversely affects local air quality, so a Johnston dust suppression system is fitted as standard on the C400 sweeper. Jets of fine water spray the area in front of the brushes dampening dust before it is swept. Two additional water jets simultaneously spray a fine mist into the air stream of the suction box which directs the dust and litter into the hopper where the dampened material quickly settles and at the same time safely traps harmful dust particles. Johnston's filter system meets the EUnited PM10 standard for dust suppression.

Low Carbon Footprint

On average the C400 uses 3.9 litres less fuel per hour in Work Mode compared with 7.5 tonne chassis mounted sweepers, which means (based on 40 hours per week), the C400 could reduce CO₂ emissions by 21 tonnes per vehicle per year.



Cost of Ownership

The initial capital cost of a sweeper is only part of the calculation for cost of ownership, and Johnston Sweepers takes account of a range of issues that will increase the benefit of using a Johnston C400 sweeper.

Built in our Sittingbourne factory, the C400 offers lower maintenance costs when compared to a chassis mounted vehicle. With 500 hour service intervals on the whole vehicle, service costs and downtime are kept to a minimum.

Designed to cope with tough environments the C400 hopper is manufactured from 4003 stainless steel for protection against corrosion and wear. Major components are shot blasted with an aluminium oxide abrasive providing an excellent key for the painting process. An acid etch primer is applied followed by two coats of 2 pack epoxy paint, stoved off to give a hard wearing coating. In addition grey parts are shot blasted, primed and powder coated for a tough finish, ensuring the sweeper bodywork maintains its durability and longer in-service life.

The C400 is designed and built for urban and city sweeping, the engine and drive train are also matched to this purpose, resulting in greater fuel efficiency. In comparative fuel tests, results show that, the C400 uses an average of 3.9 litres less fuel in Work-Mode than other sweepers of similar size which are mounted on truck chassis.

- Water hydrant option and large 600 litre water tank give prolonged productive work time
- Heavy duty Multivane fan with wear resistant blades
- Winter maintenance snow plough kit – gives you a year round multi-tasking machine - clearing snow in winter and sweeping for the rest of the year
- UK wide customer service network to provide support throughout the lifetime of the sweeper
- Johnston Sweepers retain the highest residual value of any sweeper on the market

TOP
Wide brush sweep for
one pass pick-up

BOTTOM
Agile and
responsive steering



Optional benefits:

- All switches and controls are ergonomically mounted within the cab for ease of operation
- High pressure hand lance and 13 m recoiling hose, comes complete with both fan and pencil nozzles
- Optional third brush for simultaneous pavement and kerbside cleaning
- The high dump hopper option is mounted on a heavy duty lifting platform that allows a discharge height of 1800 mm for tipping into skips or refuse vehicles
- Rotatilt on front brushes provide greater access to variable cambers
- A 4000 mm, side mounted Littasnatch via a quick-attach coupling to either side of the machine
- Turntable mounted, low profile design 5900 mm reach wanderhose to access hard to reach areas



TOP
Wanderhose option

LEFT
Third brush option

RIGHT
High dump option



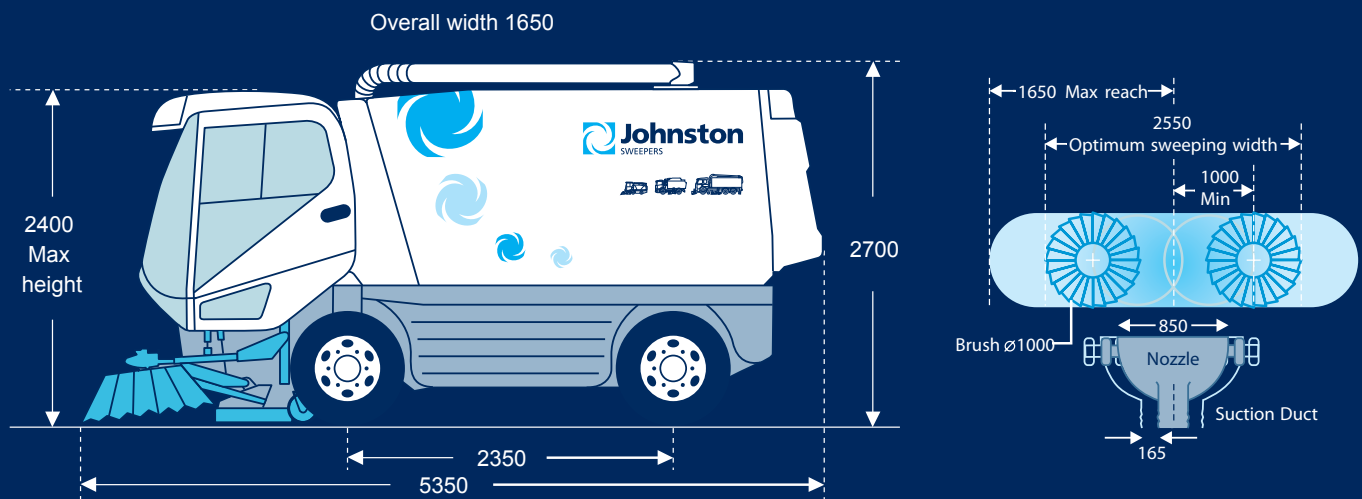
TOP
Independently
controlled brushes

BOTTOM LEFT
Work lights

BOTTOM RIGHT
In-cab control pad



Sweeping Configurations



All measurements in millimetres

Outline Specification C400

Engine: Iveco Turbocharged Diesel

Length: 5350 mm (inc brushes)

Brush diameter: 1000 mm

Width: 1650 mm

Brush speed: Up to 125 rpm

Height: 2400 mm

Nozzle width: 850 mm

Unladen weight: 4940 kg

Gradeability: Up to 24%

Payload: Up to 2.56 tonnes

Water tank: 600 litres

Coverage: 40,000 m²/hr

Hopper voided volume: 4.1 m³

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