



CS80 CS90 CS110



Battery, Diesel or Bifuel operated compact sweepers with a great production capacity

CS80/CS90/CS110 ride-on industrial sweepers are among the most compact in their category. Thanks to their box frame, built around the central brush, they have extremely limited dimensions and are very robust at the same time. This makes the CS80/CS90/CS110 sweepers extremely versatile, so they can be used to clean both large surfaces and narrow or cluttered areas.

CS80/CS90/CS110 are available in battery-powered or Diesel engine versions, with three different working widths: 112 cm (CS80), 122 cm (CS90) or 142 cm (CS110). CS110 is also available in a Bifuel version with gasoline/LPG endothermic engine to reduce consumption and emissions.

These extremely productive sweepers are suitable for cleaning the most resistant dirt on outdoor and indoor surfaces in industrial environments, department stores, camping sites, squares and car parks up to 30,000 sq.m.

KEY FACTORS OF CS80-CS90-CS110

- Three types of power supply: battery, diesel and Bifuel to meet different cleaning needs
- Brushes lifting by means of two comfortable independent levers
- The autonomy of the battery-powered version can be up to 4 hours
- Access from both sides
- Maximum access to the engine compartment, so any type of maintenance, such as changing the oil or filters, can be done inside the machine very easily
- The pressure and the height adjustment of the central brush on the basis of its degree of wear can be easily controlled using the knob near the brush itself. This ensures a longer brush service life
- Side brush retracts in the event of accidental knocks, thus avoiding all possible damage. The brush's slanting angle can be adjusted to better adapt to cleaning along borders
- The coaxial turbine offers excellent vacuum performance and a significant reduction in maintenance
- Hydraulically operated brakes
- Headlights as standard to make the sweeper more visible when operating and improve visibility
- Blinking light kit to increase safety by indicating that the machine is passing
- Overhead guard to protect operators
- Seat belts



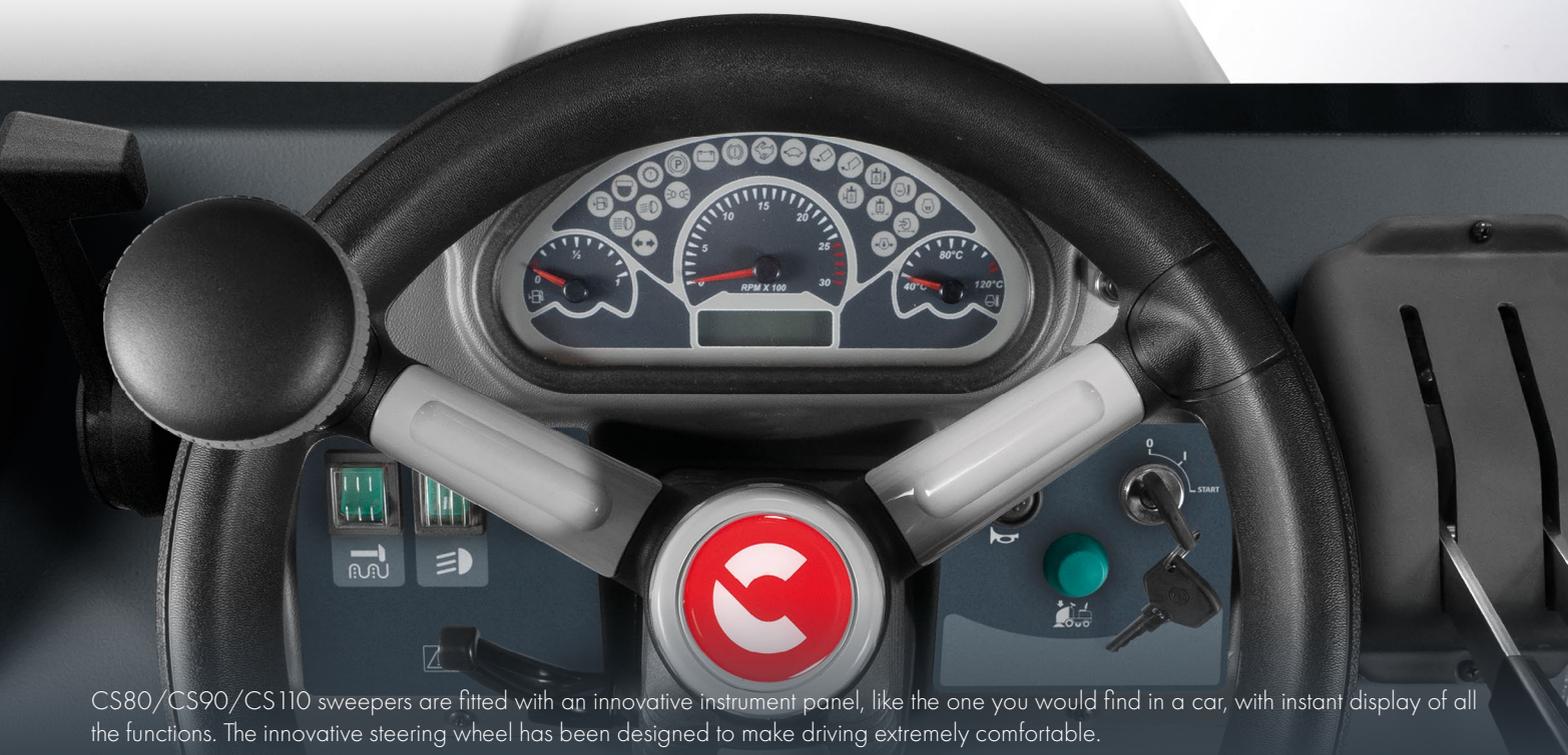
CS80 B/D
Version with one or two side brushes
Central brush: 800 mm

CS90 B/D
Version with one or two side brushes
Central brush: 900 mm

CS110 B/D/Bifuel
Version with one or two side brushes
Central brush: 1100 mm

Studied to provide maximum driving comfort for the worker

The CS80/CS90/CS110 sweepers have been created to make the operator's job comfortable and easy. They have been studied in minimum detail: the driver's seat can be accessed from both sides and the elegant instrument panel allows the operator to have the situation always under control.



CS80/CS90/CS110 sweepers are fitted with an innovative instrument panel, like the one you would find in a car, with instant display of all the functions. The innovative steering wheel has been designed to make driving extremely comfortable.

A fabric bag filter, with a large filtering surface - 7 sq.m (CS80)-8 sq.m (CS90-CS110) - lasts a very long time and ensures excellent results even in environments where there is a lot of fine dust thanks to the powerful filter shaker. The filter is easy to remove without the use of tools, to check or replace it. No maintenance is required thanks to the periodical use of the electric filter shaker. Filters in fabrics for specific applications are available upon request.

Super-comfortable seat
with armrests



The vacuumed air is discharged through grilles located high up on the machine. This means that none of the dust that has settled on the surface surrounding the machine is lifted, thus guaranteeing excellent cleaning results.

Maximum accessibility for routine maintenance, simple and quick, and to have extremely reduced running costs

The CS80/CS90/CS110 sweepers are designed to provide maximum access to the engine compartment (in the Diesel or Bifuel version) and to the battery compartment (in the battery version). Thanks to this accurate study, any type of routine and extraordinary maintenance can be done inside the machine without ever being obstructed, guaranteeing quickness and greatly reduced costs.

The front box for collecting dirt has a capacity* of: 190 l. (CS80)-220 l. (CS90)-270 l. (CS110) and is lifted by a 2-piston hydraulic system operated by the handy control where the driver sits. Vacuuming is operated by a hydraulic motor.

* Measurement read on the edge of the filter

The side brush retracts in the event of accidental knocks, thus avoiding all possible damage. The brush's slanting angle can be adjusted to better adapt to cleaning along borders.

Suction closure



Mechanical control levers

omax

DISCHARGE HEIGHT 1.4 m

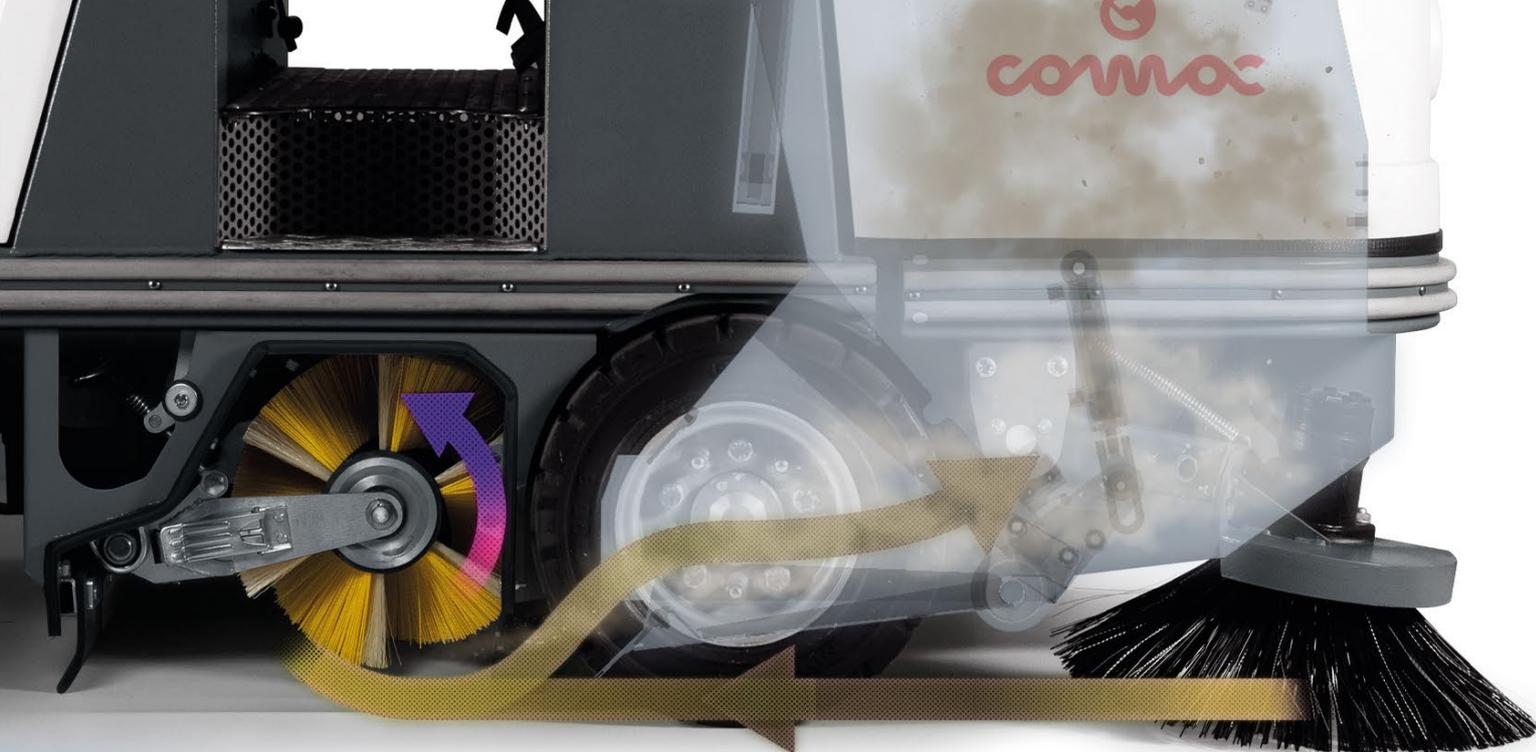
Automatic emptying: The frontal dirt collection container is lifted by a 2-piston hydraulic system, operated by a handy control on the driver's seat.

The suction turbine attached directly on the rubbish container and operated by the hydraulic motor guarantees performance constancy over time.

Besides reducing mechanical stress the large diameter wheels also make working more comfortable. Their sturdy support helps keep operating characteristics always the same.

Both versions have hydraulically controlled brakes as a standard feature

The traction, brush and suction system motors are operated by an hydraulic circuit. The hydraulic system was designed to reduce waste and keep oil temperature within optimum values, thus increasing performance and minimizing the use of energy. These sweepers are equipped with a motor water cooling system to increase their working autonomy and work even in very hot environments. The engine of the CS110 Bifuel version, on the other hand, is air-cooled. The hydraulic motor that exerts its force on the rear wheel allows these sweepers to have maximum power even on ramps. In addition, its rear position increases the sweepers' maneuverability.



The pressure and height adjustment of the central brush are controlled simply by the knob near the brush. Brush height adjustment depending on wear can, therefore, be done very easily. This ensures a longer brush life cycle.

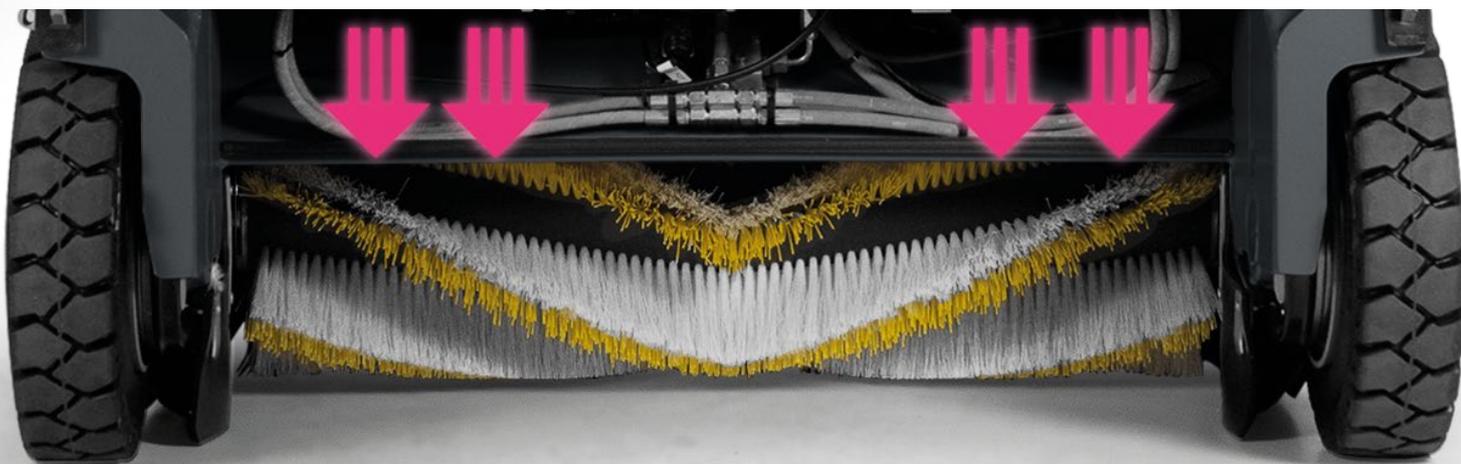
The front loading system allows to have a reduced distance between the brush and the debris hopper. This allows for a better collection capacity in the presence of heavy debris.



In the B version the box that houses the electrical devices is positioned centrally so it is quick and easy to check the devices and the level of the fluid in the battery elements. A battery box can be installed with a capacity of up to 480 Ah C5 (CS90 B-CS110 B version).



The opening gives complete accessibility to the components. Just the checking of the oil or changing the filters for instance, in the motorised version, is now very easy.



THE CENTRAL BRUSH IS THE FLOATING TYPE AND SELF-ADJUSTS TO KEEP IN CONTACT WITH THE GROUND ALL THE TIME

STANDARD EQUIPMENTS	CS80 B	CS80 D	CS90 B	CS90 D	CS110 B	CS110 D	CS110 Bifuel
Decentralized driving position	•	•	•	•	•	•	•
Automotive dashboard	•	•	•	•	•	•	•
Battery supply	•	-	•	-	•	-	-
Diesel engine supply	-	•	-	•	-	•	-
Bifuel supply (Gasoline+LPG)	-	-	-	-	-	-	•
Non-marking rubber wheels	•	•	•	•	•	•	•
Fabric filter	•	•	•	•	•	•	•
Headlights	•	•	•	•	•	•	•
Filter shaker	•	•	•	•	•	•	•
Manual levers for brushes lifting	•	•	•	•	•	•	•
Super comfortable seat with armrest	•	•	•	•	•	•	•
2 hydraulic piston dirt collection container	•	•	•	•	•	•	•
Blinking kit	•	•	•	•	•	•	•
Hydraulic working brake	•	•	•	•	•	•	•
Bumpers	•	•	•	•	•	•	•
Dead man's switch	•	•	•	•	•	•	•
Reverse warning device	•	•	•	•	•	•	•
Horn	•	•	•	•	•	•	•

OPTIONAL/ACCESSORIES	CS80 B	CS80 D	CS90 B	CS90 D	CS110 B	CS110 D	CS110 Bifuel
Panel filter	•	•	-	-	-	-	-
Pneumatic wheels	•	•	•	•	•	•	•
Seat belts	•	•	•	•	•	•	•
Overhead guard	•	•	•	•	•	•	•

TECHNICAL DESCRIPTION		CS80 B	CS80 D	CS90 B	CS90 D	CS110 B	CS110 D	CS110 Bifuel
Theoretical productivity	up to sqm/h	9510	10080	10370	10980	12070	12780	12780
Working width with central brush	mm	800	800	900	900	1100	1100	1100
Working width with side brush	mm	1120	1120	1220	1220	1420	1420	1420
Working width with two side brushes	mm	1440	1440	1540	1540	1740	1740	1740
Central brush	Ø/mm	320x790	320x790	320x890	320x890	320x1090	320x1090	320x1090
Side brush	mm	460	460	460	460	460	460	460
Standard filter	format	Pocket	Pocket	Pocket	Pocket	Pocket	Pocket	Pocket
Standard filter	material	Fabric	Fabric	Fabric	Fabric	Fabric	Fabric	Fabric
Filtering surface	sq.m.	7	7	8	8	8	8	8
Debris hopper capacity	l	360	360	400	400	480	480	480
Type of drainage	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Supply/traction	V	Battery 36V/ aut. hydraulic	Diesel/ aut. hydraulic	Battery 36V/ aut. hydraulic	Diesel/ aut. hydraulic	Battery 36V/ aut. hydraulic	Diesel/ aut. hydraulic	Bifuel LPG/ aut. hydraulic
Machine dimensions (LxHxW)	mm	2020x1430x1130	2020x1430x1130	2020x1430x1130	2020x1430x1130	2020x1430x1430	2020x1430x1430	2020x1430x1430



Cleaning
contractors



Industrial



Public



Automotive



Logistics



Large-Scale
Retailing



Transport



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