

More effective sweeping

A sweeping system that combines the benefits of the mechanical collection with those of the vacuum system.

The side brushes and the main cylindrical brush mechanically load the debris inside the hopper by the means of a vertical conveyor; vacuum is used simultaneously to keep the dust constantly under control. A simple patented system that is **able to collect and load over half a tonne of debris per minute**, which allows the collection of a wide range of debris, from the finest dust to more voluminous objects such as bottles, large gravel and even fruit or vegetable market boxes.

This system enables the 5000 Evolution **to work at up to three times the speed of traditional non-combined sweepers**.

Manual loading is a thing of the past as are problems caused by blockages that are typically associated with other systems.

half
a tonne
per minute

3 times
the
speed

Below
freezing.
no problem!

It slaves away without wasting a single drop of water.



**industrial
sweepers**



STREET CLEANING EQUIPMENT



A wide range of sweepers, from the model with a sweep path of 1500 mm. to the sweeper with a 5 m³ hopper. The street washing machine with tanks capacity from 2600 lt. up to 6000 lt., to the 10 m³ compactor.



Dulevo, design and technology for a cleaner world.

DULEVO is acknowledged as a leading international manufacturer of a wide range of industrial sweepers, street cleaning equipment and scrubber driers and is a force in all major market sectors. The company's continual dedication to quality has made it possible to obtain the prestigious UNI EN ISO 9001 certification from Det Norske Veritas. Over 30 years of design and manufacturing experience have enabled Dulevo to remain at the forefront of technology and to consolidate its position as a world-wide market leader. A network of importers and authorised dealers provides sales and service support for Dulevo products in Italy and all major countries of the world. Every day hundreds of people work to ensure that Dulevo is a prime force in all of its chosen markets.



INDUSTRIAL SWEEPERS



AUTO SCRUBBER-DRIERS



COMMERCIAL SPRINT



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The success goes on



evolution
5000

EU4



PARMA

* Specifications are not binding for our company and subject to change at any time without notice.

Unique
patented
steering

Greater manoeuvrability

The newly designed cab with large and front side windows, a car type right hand driving position, big wing mirrors and power steering make the machine simple to manoeuvre, however difficult the situation. The exclusive patented steering system operates on all four wheels, reducing the turning circle to a minimum and eliminating the loss of debris when turning, which is a typical defect of machines not equipped with this type of steering. The rear hydraulic three level suspension makes it possible to optimise the set up of the machine either in working or transfer mode.

Simplified maintenance is important for reducing costs - a target achieved with the 5000 Evolution! All the main components are grouped together in the engine compartment which is easily accessible by tilting the cab.

DULEVO

evolution
5000
EU4

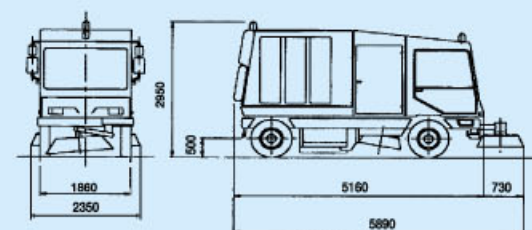
SWEEPING WIDTHS:
-MAIN BRUSH ONLY mm 1.300
-WITH LEFT AND RIGHT HAND SIDE BRUSHES mm 2.600
-WITH SIDE BRUSHES AND FRONT EXTENDABLE BRUSH mm 3.500

WASTE HOPPER VOLUME m³ 5
WATER TANK VOLUME lt. 500
MAXIMUM DUMP HEIGHT mm 2.300
MINIMUM EXTERNAL TURNING CIRCLE mm 9.500

MAXIMUM SPEED km/h 42
TOTAL WEIGHT kg 12.250
PAYLOAD kg 5.100

ENGINE: MANUFACTURER AND TYPE IVECO F4E0484C
MAXIMUM POWER 110 kW a 2700 g/1'
FUEL diesel

SERVICE BRAKE hydraulic
PARKING BRAKE mechanical
FRONT SUSPENSION semi-elliptic springs
REAR SUSPENSION hydraulic automatic twin level and a mechanic one



The 5000 Evolution, has a combined mechanical-vacuum system which gives the benefits of both methods of operation, making it ideal for the majority of urban applications, whatever the season. In summer for sweeping road dust, sand and litter. During the autumn with its leaves and pine needles or even during the coldest winter conditions. Just imagine how your 5000 Evolution could sweep an open market - anytime of the year.

mechanical -
suction,
the Dulevo
solution

The combined mechanical-vacuum system

The collection system starts with the side brushes (1) which transfer dust and debris into the centre of the machine where a large diameter cylindrical main brush (2) throws everything forward onto a high speed vertical conveyor (3).

The conveyor in turn transfers the collected materials into the top of the waste hopper (4), thereby optimising the load capacity of the vehicle. The dust lifted by the main brush during its mechanical working phase is drawn into the hopper by the vacuum created in the hopper by two powerful fans (5).

The patented filter system, made from polyester/cotton fabric (6) traps the finest dust and completes the sweeping cycle ensuring that only clean air is exhausted into the environment. The side brushes which are positioned outside the vacuum system, only require a small quantity of water sprayed onto them to control the dust. The water spray system consists of a stainless steel water tank (7) which via a membrane pump, sends water to the nozzles (8) positioned near the side brushes and the front extendable brush (10).

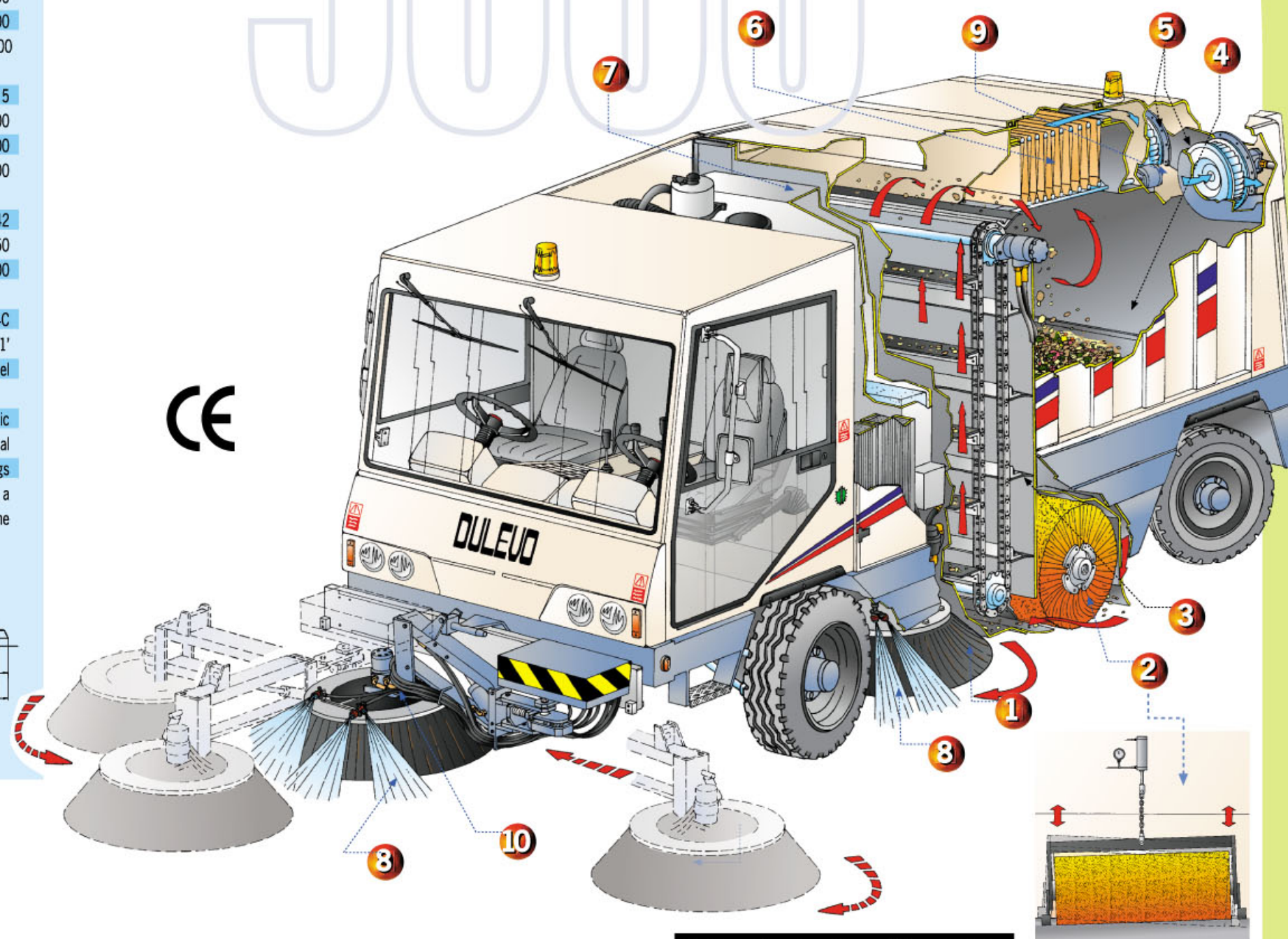
Main cylindrical brush

The main brush assembly (2), suspended from its centre and perfectly balanced which allows it to "float" and therefore to follow the road surface whatever the conditions.

The ground pressure is adjustable and kept constant thanks to an efficient hydraulic system that allows the brush to "read" the surface configuration. This system is particularly efficient for uneven city road surfaces.

Extending front brush

The extending front brush (10) ensures efficient cleaning of side walks and difficult to reach areas that cannot be reached with the normal side brushes. The brush swing of 180° to the right or left side is operated by a joy-stick placed on the cab door, in a position that avoids distracting the operator whilst driving. The front brush is hydraulically adjustable in all its functions - height, reach and tilt. In case of impact, efficient magnetic sensors operate the withdrawal of the brush, which is also equipped with additional mechanical protection against damage.



Polyester/cotton filter fabric

The filter fabric (6) offers a large surface of over 22 m² which allows long working periods without the danger of becoming clogged. The DULEVO filter, in a rot proof fabric made from mix of polyester (73%) and cotton (27%), is practically indestructible and ensures perfect filtering down to 3 micron. The filtration system also includes an effective filter shaker (9) operating directly from the drivers position. Operated hydraulically before dumping the hopper, the filter shaker vigorously strikes the metal filter tensioning rods, shaking the elements in all directions ensuring the complete separation of the dust from the fabric. The loosened dust then falls inside the hopper.



GORE Filtration Products

The extraordinary GORE® filtration products strongly enhance its performances while guaranteeing longer life, easiness of cleaning, reduced maintenance costs, a 35% increasing of air flow: altogether for a better quality of sweeping.

Thanks to more than 30 years of experience in the road sweeping field and thanks to the meeting with GORE®, Dulevo has now even improved its dust filtrating system in order to reach the perfection. The mechanical-suction system, Dulevo patent, is already known for its strength in filtrating fine and ultra fine dust particles; now thanks to the exclusive application of GORE® filters it becomes the unique device able to guarantee an almost total filtration of all PM10 dusts.