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5000 Evolution

The success continues

EU4

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Suction hose

For the clearing of manholes and street drains, 5000 Evolution also offers the comfort of the back debris suction tube, using the same suction and filtering system of the sweeping phase. Easy to operate and extremely manoeuvrable, it is particularly useful to solve the frequent problems related to the collection in areas difficult to reach.

Salt-caster

Side plank salt-caster with a plastic structure, support frame for anchoring the pulling hook of the vehicle, with plate distribution system and activation exploiting the electrical system of the vehicle.

THE BLASTER ENGINE:

- Stainless steel disk 304
- Watertight connectors
- Stainless steel shaft
- Engine protected with sealed frame, special seal of the shaft
- All of the components of the frame are dust painted
- Reduced-loss electrical harnesses
- Engine located in a safe position in case of accidental collisions

SALT-CASTER FEATURES:

- Low-maintenance polyethylene hopper
- Hopper capacity, About kg 340
- Size: Length cm 136 – height cm 113 – width cm 64
- Adjustment of the spreading in relation to speed
- Width of spreading up to 12 m

Blade

Light blade for medium quantities of snow, with monolithic carrying spoiler with curved profile and independent lower elements. The spring amortization system, autonomous on each element, allows the rotation of the system itself and enables an efficient overcoming of obstacles without back-kicks. Thanks to the subdivision of the abrading lower part, the blade is perfectly suited for the urban and extra-urban clearance, both at a significant speed and in the presence of frequent obstacles. A by-passing valve, inserted in the rotation circuit, allows the amortization of lateral collisions. Endowed with hydraulic adjustments, which allows the right-left rotation, as well as lifting-lowering. A mechanical device allows the adjustment of the incidence angle in three different positions, according to the type of knife being used. Swinging central system (Patented), which blocks the spoiler in a perfectly horizontal position with the blade rose. The spoiler is thus free to follow the street plane with the blade lowered in an operative position, this way attaining a flawless cleaning of the street and a regular wearing of the knife. The equipment is provided as a standard with the RAL 2011 color, and is endowed with steel abrading knife, mechanical support bases, signaling flags, side buffers and quick joint to the engine.

TECHNICAL DATA:

- Length of the abrading knife mm 2720
- Clearance opening (36° max. inclination) mm 2235
- Minimum bulk for narrow passages mm 2410
- Conjunction angle of the knife in relation to the ground 20°
- Spoiler height mm 950
- Number of blade abrading elements qty 4
- Height of surmountable obstacle mm 100
- Weight (mass) of base version base kg 465



Commercial cleaning equipment

Industrial cleaning equipment

Street cleaning equipment

Design and Technology for a cleaner world

A WORLDWIDE COMPANY



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



DULEVO
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 Passion for Technology



EAL00-2010



5000 Evolution

The only sweeper in the world capable of combining manoeuvrability, cost-effectiveness, and reliability with a veritable high standard sweeping quality. If you are on the search for a sweeper warranting total control of subtle particles, top productivity, and low maintenance costs, the Dulevo 5000 Evolution sweeper is without any doubt what you need to satisfy your demands. In terms of productivity, the efficiency of this sweeper is three times higher than the one featured by any traditional sweeper. Designed for sweeping both urban and industrial environments, such as cement factories, construction enterprises, fruit and vegetable markets, ports, airports, managing in every environment an ecological and efficient operativeness. Never was a machine designed to target the needs of such a vast audience. Compact, soundless, comfortable, alluring and easy to drive, it imposes a new standard of driving comfort, thanks to the most advanced technologies for the reduction of the noise perceived in the cabin. The Dulevo 5000 Evolution sweeper may be used for both urban and industrial sweeping of indoor and outdoor environments, wet or dry. For applications where the quantity of dust is significant, and where the abatement of particles seems more like a mirage, Dulevo 5000 may be equipped with the exclusive GORE® filter, which offers the best solution to be found on the market as far as the abatement of subtle particles is concerned. This way, you don't eliminate only dust, but also maintenance costs. Super-resistant, 100% of cleaning, 100% of abatement of PM10 particles, in accordance with the EPA and EURO regulations, is the best machine in the world as far as particle control is concerned.

The DULEVO combined system

The collection is mechanical, thanks to the side brushes which direct the debris towards the centre of the machine, where the cylindrical central brush moves at a high speed on a vertical conveyor. The debris is loaded from above in the refuse container, this way optimizing the loading capacity of the machine. The dust raised by the cylindrical central sweeper during the phase of mechanical collection is sucked and kept in the refuse container thanks to the depression created in the container itself by two high capacity and prevalence exhaustion fans. The peculiar filtering system, made of fabric, detains also the most subtle particles and competes the sweeping cycle, warranting the re-injection in the environment of clean air only. Only the side brushes, being them located externally of the depression zone, require a moderate sprinkling of nebulized water for the control of particles. The watering system consists of a stainless steel tank for the water from which – through a membrane pump – the water is sent to the nebulizers located next to the side brushes and the swiveling front brush.

Suction mechanical system

5000 Evolution, thanks to the qualities and the benefits of the combined "mechanical-suctioning" collection system, is the ideal machine to manage the most diverse urban applications, which differ in terms of typology and seasonal conditions; from the street sweeping carried out during the summer season in the presence of sand and dust, to the sweeping of autumnal depositions of leaves and pine needles, from the wintery sweeping in particularly bleak temperatures, to the collection of refuses after the termination of local markets in every season of the year.

Filter

The kit of sac filters made of fabric offers a wide filtering surface, which is equal to more than 22 m², thus allowing long periods of operation of the machine, without the risk of obstruction. The DULEVO filter, made of incorruptible fabric composed by a mixture of polyester (73%) and cotton (27%), is actually indestructible and allows an exceptional filtering up to 3 micron. The filtering group comprises also an efficient shaking device, which may be operated directly from the driving position. Controlled hydraulically before the unloading phase, the filter-shaker acts on the metallic bars which keep the filtering bags stretched, shaking energetically in every direction in order to warrant the total detachment of the particles, which will then fall in the refuse container.



GORE®

Thanks to more than 30 years of experience in the sweeping of street and industrial environments, and thanks to the collaboration with the GORE® group, DULEVO has further developed its particle filtering system to attain perfection. The mechanical-suction-filtering system - a Dulevo patent - already well known for its filtering qualities for fine and ultra-fine particles, thanks to the application in world exclusive of the GORE® filter, it is the sole system capable of warranting the total abatement of PM10 particles. The extraordinary filtering GORE® materials significantly enhance performance, warranting duration, easy cleaning, reduced maintenance and an increase of the air capacity equal to 35%. All this for an improved sweeping quality.

Swiveling front brush

The swiveling front brush allows the efficient cleaning of sidewalks and other areas difficult to reach with the side brushes. The 180° swiveling, on the right and left sides, is operated through an effortless joy-stick located on the door of the cabin, in a position that helps the operator stay focused on the driving. The front brush is adjustable hydraulically in all of its functions, be them positioning, as well as lateral and longitudinal inclination features. In case of collisions, some reliable magnetic sensors operate the immediate return of the brush, which is nevertheless also protected by an extra mechanical safety.

Technical data		5000 Evoution	
Sweeping width:			
Central cylindrical brush	mm	1300	
With left and right brushes	mm	2600	
With side brushes and third brush	mm	3500	
Diameter of side brushes	mm	1100	
Diameter of main brush	mm	650	
Cleaning performance	m ² /h	105000	
Waste hopper capacity	Lt	5000	
Maximum dump height	mm	1150	
With dump height opt.	mm	2200	
Filtering surface size	sqm	22	
Maximum speed	Km/h	42	
Weight	Kg	7800	
Total weight	Kg	12900	
Engine:			
Make		IVECO	
Model		F4HE948	
Cylinders		4	
Fuel		DIESEL	
Maximum power		107 KW	
Cooling system		LIQUID	
DIMENSIONS			
Length	mm	5190	
Length with 3 rd brush and hose	mm	5920	
width	mm	2350	
Height	mm	2870	

