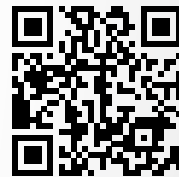


## Macro M60 Plus CB Tier IIIA Euro IV

The True Revolution in Heavy-duty Sweeping



M 60





## Macro M60 Plus CB Overview

Our MACRO street sweepers are the most advanced and performing machines for continuous professional use currently available on the market. For years, MACRO technology has been focusing on four objectives: simple use, consumption reduction, low environmental impact, fast return on investment.

The M60 is the most advanced and performing mechanical-suction sweeper in the market today thanks to years of continuous development. Its 6 cubic metre hopper volume and 6000 Kg net payload are unmatched parameters that allow this superb sweeper to work in the heaviest-dust conditions, both urban and industrial. The very Large Filter Surface area of 20m<sup>2</sup> make the machine work dust-free even in the dustiest situations. To the well-known and appreciated characteristics and reliability of the Standard version, the CanBus (CB) version adds further unparalleled and innovative performances.



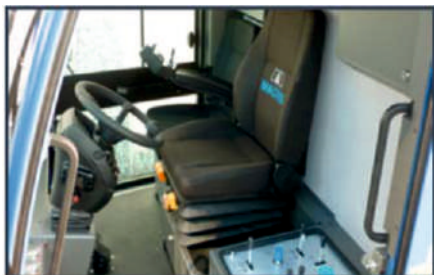
Very large volumes of dry collected waste. 6 m<sup>3</sup> hopper and 6000 kg payload is the highest capacity on the market, allowing long working shifts.



Sweeping and climbing over 20% full-load. The 4-wheel steering gives the M60 excellent manoeuvrability in all working conditions.



Exclusive capability to sweep in unbalanced conditions (ex. sidewalks). The system allows to sweep on bumps with no operator's action required.



Spacious and comfortable cabin with 2 homologated seats and user-friendly controls.



Easy-to-use keypads to operate the machine. "EasyStart" single button for all required functions on/off (CB).



Large retention dust filter to work dust-free in any situation, with filtration level available up to PM 1 (optional).

# CANBUS

Controller Area Network Bus

IT IS AN ADVANCED SYSTEM THAT CONNECTS ALL THE MODULES WORKING THROUGHOUT THE MACHINE SO THAT THEY CAN WORK TOGETHER TO RUN EFFECTIVELY AND EFFICIENTLY. IT IS HIGHLY RELIABLE AS COMING FROM THE AUTOMOTIVE SECTOR:

- FRONT/REAR HYDRO-PNEUMATIC "REACTIVE" SUSPENSIONS
- BRUSHES GROUND PRESSURE HYDRAULIC CONTROL, FOR WEAR REDUCTION
- AUTOMATIC CENTRAL BRUSH RAISE
- IN-CAB MONITOR WITH PARTIAL/TOTAL HOUR-COUNTER OF ALL MACHINE FUNCTIONS
- DIAGNOSTICS DIRECTLY DISPLAYED ON MONITOR
- REMOTE UPDATE OF ANY POSSIBLE SETTING VIA SIMPLE USB STICK OR NETWORK CABLE
- ACQUISITION, DISPLAY AND RECORDING OF ANY OPERATION DATA



**1** Reduced CO<sub>2</sub> emissions, it only uses the Volvo Engine required power, taking less fuel and therefore being environmentally sustainable.

**2** Automatic Dashboard - CAN BUS wiring system - Easy, fast and safe to use. Very easy even for unexperienced operators.

**3** Automatic Heating / Air-Conditioning System - Easy-to-use and more effective & comfort for the operator.

**4** Double Cable Holding The Main Broom - Stronger holding of the broom ; Better broom balancing on unlevelled surface.

**5** Excellent manoevrability - Gradient over 20% even in full-load.

**6** Water system - Available on two side & third brushes and automatic water cut-off in reverse mode.

**7** Wider Loading Mouth - Easier and faster loading; Lower risk of clogging.

**8** Wide Hydraulically Operated Door Opening - Easy to dump also light-bulky stuff like leaves easier, faster and safer to operate and clean.

**9** Electric Parking Brake - Easier to use; Stronger and safer braking & Automatic release when starting.

## OPTIONAL



Fully adjustable third front brush that allows to sweep 180° left and right side.



Dumping at any height between 1,1 and 2,3 m.



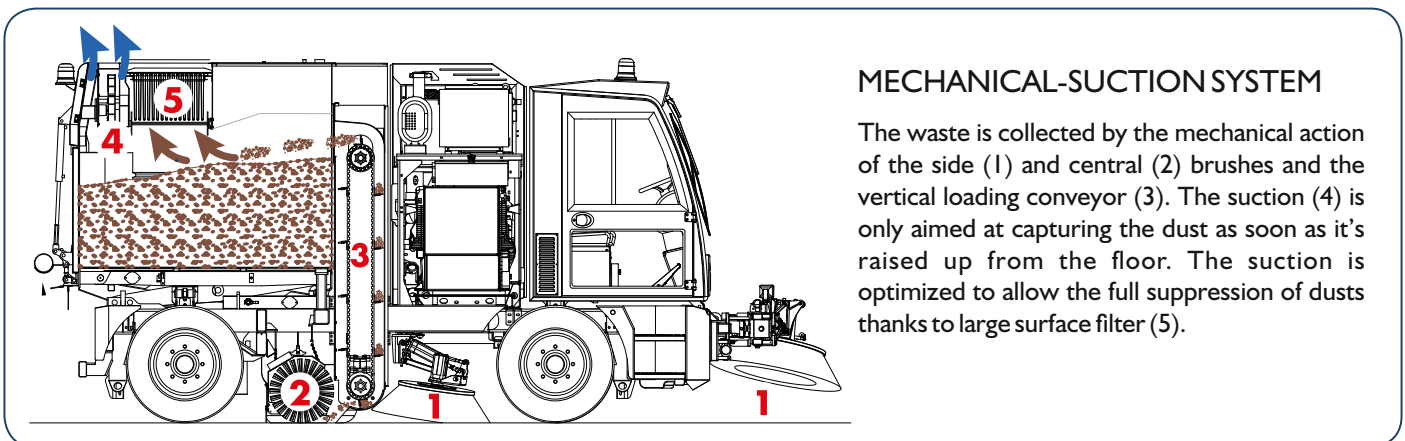
Rear powerful wandering vacuum hose, 6 m length -140 mm diameter.



Side brush dust suppression skirts for dry dust-free sweeping.

## Macro M60 Plus CB Tier IIIA Euro IV - Technical Specification :

SWEEPING WIDTH		
with central roll-brush only	mm	1300
with central roll-brush and right-hand side brush	mm	2000
with central roll-brush and 2 side brushes (standard)	mm	2700
with central brush, 2 side brushes and 3rd front brush (opt)	mm	3600
HOPPER AND WATER TANK		
Hopper volume	m <sup>3</sup>	6
Net homologated payload	kg	6000
Hopper dumping height	m	1.1 (opt - 2.30)
Water tank capacity (with optional water spraying system)	l	620 / (opt 1220)
ENGINE AND DRIVE SYSTEM		
Volvo Penta Diesel Engine Tier3A Intercooler Water Cooled	kw/hp	105/143
Driving system	-	Hydrostatic
Maximum speed	km/h	42
Maximum gradient full load	%	>20
OTHER FEATURES		
All Functions Control		Electro - Hydraulic
Turning radius	mm	4430
Steering system	-	4 Wheel power st.
Full load weight (without/with 3rd front extendable brush)	kg	13250/13400



### MECHANICAL-SUCTION SYSTEM

The waste is collected by the mechanical action of the side (1) and central (2) brushes and the vertical loading conveyor (3). The suction (4) is only aimed at capturing the dust as soon as it's raised up from the floor. The suction is optimized to allow the full suppression of dusts thanks to large surface filter (5).

Roots reserves the right to make any changes considered necessary for the purposes of improvement at any time or for any reason without prior notice, in line with its policy of continuous product development and progress.

**Our Product Range** - Sweepers, Scrubber-Driers, Vacuum Cleaners, Single Disc Scrubbers, Mini Floor Washers, High Pressure Water Jet Cleaners, City Sweepers, Bins, Mops & Trolleys.

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### Roots Multiclean Ltd.

R.K.G. Industrial Estate, Ganapathy, Coimbatore - 641 006. India.

Tel : +91 422 4330 330. Email : rmclsales@rootsemail.com

Website : rootsmulticlean.com

Toll Free: 1800-419-9779

