



ROAD CONSTRUCTION & SPECIAL-PURPOSE VEHICLES

MUNICIPAL VEHICLE
KM-2000





KM-2000



Municipal Vehicle

CATALOGUE



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MUNICIPAL VEHICLE KM-2000

SELF-PROPELLED VACUUM STREET SWEEPER



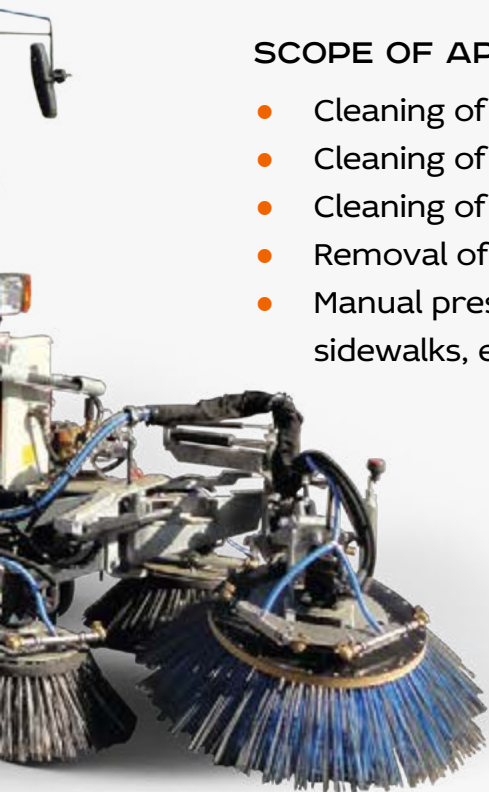
KM-2000 is based on multi-function base chassis design which ensures all-year operation of the vehicle, making cleaning environmentally safe. The vehicle is indispensable for utilities and public services in any season.

Main advantages of the vehicle are high efficiency, easy steering, maneuverability, usability in confined environment, cost efficiency, versatility, reliability.

It is intended for summer and winter maintenance of roads, pavement and hard-surface lots.

SCOPE OF APPLICATION

- Cleaning of pavements, walkways in parks and gardens.
- Cleaning of sidewalks on bridges and elevated roads.
- Cleaning of plant sites and warehouse floors.
- Removal of litter from city street gutters.
- Manual pressure washing of housefronts, roads, sidewalks, equipment, and monuments.



KM-2000

MODULAR DESIGN

The modular principle of KM-2000 combined with the hydrostatic drive makes it possible for any operator to retool, for instance, a suction sweeper to a snow remover in almost no time. Multi-purpose front plate makes implement change an easy task. LUDV hydraulic system enables more efficient use of the engine power and optimal power distribution between the transmission and active tools.



MOBILITY

The base chassis of KM-2000 features 4-wheel drive to ensure the required traction force for angle blade operation. Two steerable axles and three control modes 2WS / 4 WS / Crab make the vehicle highly maneuverable for the city environment.



VERSATILITY

Additional attached implements, for instance, a gutter brush or a moldboard, allows for thorough and rather quick cleaning of roads and pavement with thin snow cover. Litter suction equipment of KM-2000 which consists of two 2.3 m wide curb brooms has effective dust suppression system. The base configuration also includes a suction hose for hand cleaning in hard to reach areas. Moreover, additional curb broom manipulator is available which broadens the grasp width and helps to collect litter from surfaces at different height. A manual pressure washing system is used to clean the vehicle itself as well as to wash and clean building facades, roads, sidewalks, fences, various equipment, monuments, public transport stops.



EXTENDED FUNCTIONALITY

Versatile attachment points for KM-2000 implements, as well as various body types, allows for extended functionality due to the use of new work tools, new body types and the application of existing solutions developed by the companies producing implements for municipal vehicles.



SUMMER OPERATION

All-in-one cleaning of roads, walkways, yards. Due to the dust suppression system, the vehicle can humidify the area being swept, which makes sweeping more ecologically clean.



SPECIAL-PURPOSE EQUIPMENT FOR SUMMER OPERATION

- Suction-and-sweeper system (tank, suction hose, 2 disc brushes with a tray).
- Dust suppression water system.
- Curb broom manipulator.
- Manual pressure washing system.

WINTER OPERATION

During winter, the vehicle help to remove freshly fallen snow quickly and spread anti-icing agents on sidewalks and roads.



SPECIAL-PURPOSE EQUIPMENT FOR WINTER OPERATION

- Sand-and-salt spreader.
- Front gutter brush for snow sweeping.
- Plunger type angle blade.

SPECIFICATIONS

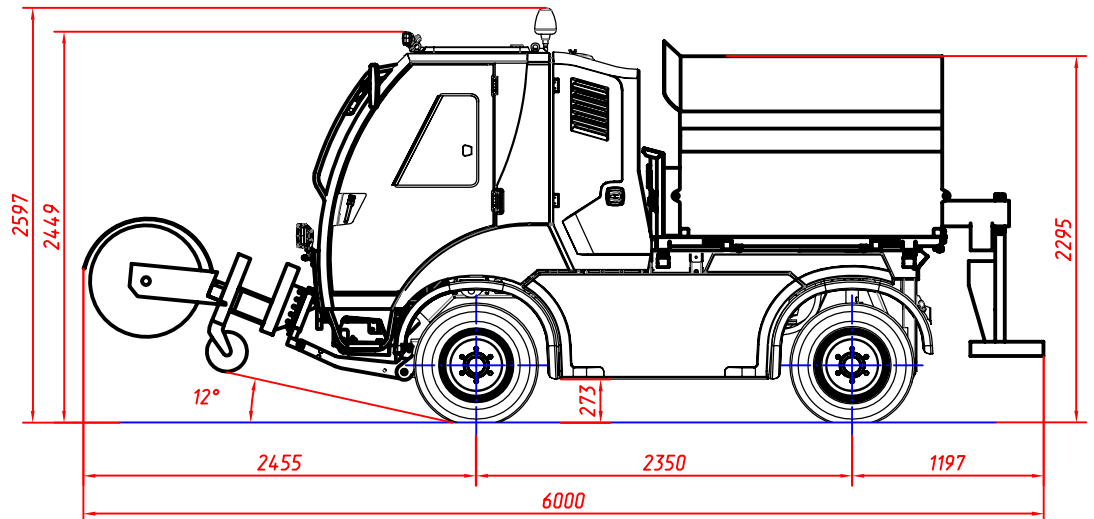
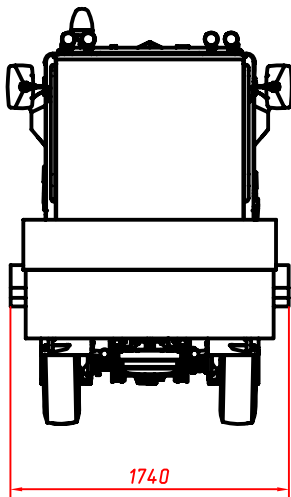
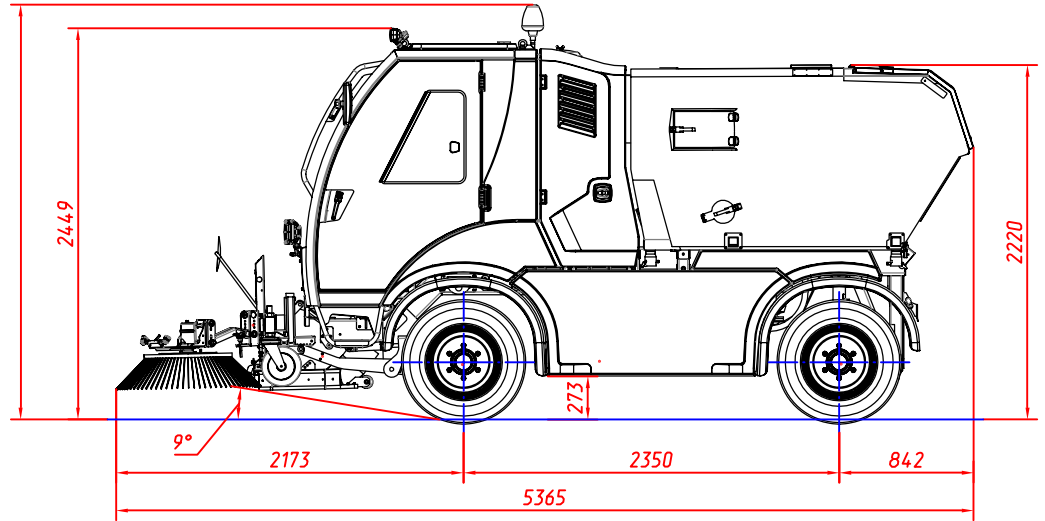
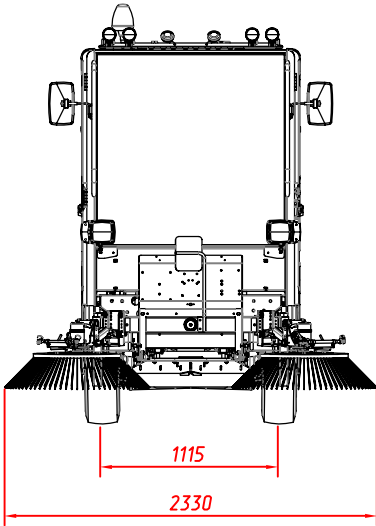
Specifications: Summer Version	Units	KM-2000
Implement type	Debris hopper c/w 2 disc brushes assembly (diameter 900 mm)	
	Suction hose (diameter 130 mm with nozzles)	
	Additional HP water pump with hose spring linkage, 10 m hose and a spray gun	
Debris hopper volume (geometric)	m ³	1,600
Dust suppression system tank	l	300
Sweeping width (standard)	mm	1,600...2,330
Exhaust fan capacity	m ³ /h	7,000
Exhaust fan speed	rpm	3,300
Vacuum suction pressure (during sweeping)	mm Hg	800
Max. vacuum suction pressure (during sweeping)	mm Hg	1,000
Dimensions		
Length	mm	5,370
Width with folded brushes	mm	1,850
Height	mm	2,600

Specifications: Winter Version	Units	KM-2000
Implement type	Body assembly	
	Installation of sand spreader	
	(volume: 1.0 m³, without electric vibrator)	
	Installation of front brush (L = 1,740 mm.)	
Sand spreader RPN1041-00.00.000 SB (volume: 1.0 m³, without electric vibrator):		
Weight	kg	530
Hopper volume	m³	1
Spread width	m	1...3
No. of rippers	pcs.	2
Feed mechanism	-	auger type
Hydraulic system performance	l/min	min. 40
Hydraulic system pressure	MPa	min. 16
No. of circuits		1
Connection	-	QRC ISO 1/2"
Vibrator availability (optional)	-	available
Flashing beacon on the hopper's rear wall	-	available
Dimensions: L, W, H, H in shipping position	mm	2,378, 1,500, 1,970, 1,410

Frontal brush ShchDF1541-00.00.000 SB (L = 1,740 mm):

Weight	kg	286
Effective width	mm	1,534
Bristle diameter	mm	700
Irregularity smoothening device movement	mm	96
Swing angle	deg.	+/-30
Swing	-	hydraulic
Hydraulic system performance	l/min	min. 50
Hydraulic system pressure	MPa	min. 16
No. of circuits	-	2
Brush drive connection (socket – supply, nipple – drainage)	-	BRS ISOA 1/2"
Brush swing connection (socket – L swing, nipple – R swing)	-	BRS ISOA 3/8"
Dimensions: L, W, H	mm	1,250, 1,740, 965
Dimensions		
Length	mm	6,000
Width	mm	1,740
Height	mm	2,600

DIMENSIONS



SPECIFICATIONS

Performance	Units	KM-2000
Base chassis curb weight	kg	3,550
Operation weight: summer version / winter version	kg	6,800/6,000
ENGINE		
Model	Deutz BF 4M 2012	
Power	kW (HP)	67 (90)
Maximum rated speed	rpm	2,000
Fuel consumption, operating condition	l/h	12
ELECTRICAL SYSTEM		
Voltage	V	12
Batteries	V	1x12
Battery capacity	A·h	190
Alternator	V	14
	A	95
Starter	V	12
	kW	4
BASE CHASSIS		
Hydraulic	Bosch Rexroth	
Control hydraulic circuit	LS circuit from Bosch Rexroth	
Transmission	Hydrostatic	
Seats in cab	pcs.	2
Minimum turning radius	mm	3,000
Operation speed	km/h	1.5...12.0
Max. speed	km/h	30
Axles	Comer (Italy)	
Type of axles	Front – steerable drive axle, rocking	
	Rear – steerable drive axle, non-rocking	
	Gearbox – none (hydrostatic transmission)	
Tool box	l	62.5 (dimensions 538x390x298 mm)
Ground clearance	mm	310
Base	mm	2,350
Track	mm	1,115
Braking system	Hydraulic oil-immersed disc brakes	
Parking brake	Mechanical	
Wheel differential	Open (no locking)	
Wheels	215 / 75 R17	
Basic configuration	Multi-purpose front suspension	
	Engine protection	
	Tow hook	
	Tool box	



320

service engineers

62

maintenance shops

155

service cars

FINANCIAL SERVICES

- Financing of equipment for individuals and legal entities on special conditions provided by top ranked leasing companies.
- Participation in state financial support programs on road construction vehicle purchasing.
- Business-tailored conditions.
- Special offers for certain vehicle types.
- Competitive and flexible leasing terms.
- Programs with minimum set of documents required.

TECHNICAL SUPPORT

- Timely maintenance and repair in authorized maintenance shops in according with the manufacturer's regulations.
- On-site maintenance.
- Available original parts in the dealership network service centers.
- Internet-platform with complete inventory of original spare parts allows to satisfy operators' needs.
- Training of service specialists in dealer centers under unified corporate programs.
- After-sale service contracts on warranty prolongation.
- Opportunity to provide technical support according to one-stop-shop principle.





MADE IN RUSSIA

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www.umg-sdm.com



Materials, specifications may be changed without prior notification.
The scope of standard equipment mountable to order can be changed.
Equipment showed in the images may differ from that available in stock as of the order date.