



Kawan Lama

SCHMIDT

ROAD SWEEPERS

CUTTING-EDGE TECHNOLOGY

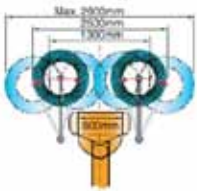




COMPACT SWEEPER SWINGO 200+

Swingo 200+ apply vacuum sweeping mechanism to collect the debris. Supported with 180 liter fresh water (+250 liter circulating water), the water is sprayed onto several critical points (2 nozzles in each brush and 2 nozzles in suction nozzles) to optimize capture of dust particles and maximise tank capacity. All the debris are vacuumed by adjustable suction fan onto 2m³ aluminum hopper

Sweeping technology



- 2.5 meter sweeping width
- Hydraulically lifting and lowering and independently retractable brushes



800 mm width, aerodynamic shape for maximum suction capacity, continuously variable lifting & lowering



1.55m² total surface area of hopper

Clean environmental technology

- PM-10 3 star Certificate
- Optimum capture of dust particles
- Water recirculation system

Vehicle technology

- VM R754 ISE4 EuroMot3B Diesel engine, 55 kW (75 HP) at 2,300 rpm
- Front-axle steering & 48° steering angle to have small turning radius.
- 4 wheel drive with 24° steering angle (optional)



3 star PM 10 Certification

PM 10 is Europe independent institution that will evaluate pollution rate made by sweeper machine.

It is very recommended to use the highest rating product to have effective cleaning & more environmental friendly cleaning process.



Swingo 200+	
Hopper	
System volume (m ³)	2
Discharge angle (low dump)	55°
Discharge height (low dump) (mm)	1400
Discharge height (high dump) (mm)	1400
Water system	
Water tank volume	180 l
Water spray system (bar/ l/min)	3.5/11/ 40
Sweeping unit	
Disc brush diameter / speed (mm, 1/min)	850
Brush material	-
Sweeping width (mm)	2600
Sweeping width with third brush (mm)	4000
Fan speed max. 1/min	3300
Air flow rate max. (m ³ /h)	8640
Drive	
Engine model	VM R754 EU 4
Power kW/HP	62/83.1
Urea (AdBlue) injection and SCR system (cm ³)	2970
	6-cylinder, 270 Nm @ 1.350 1/min
Speeds	
Transport speed max. (km/h)	25 / 40 / 50
Operating speed max. (km/h)	12
Steering	
Steering angle	48°
Turning circle between kerbs (mm)	4750
Turning circle between walls (mm)	7200
Weights	
Empty weight (kg)	1.850-3000
Total permissible weight up to 40 km/h (kg)	4500
Total permissible weight up to 50 km/h (kg)	4500
Dimensions	
Length without third brush (mm)	4000
Length with third brush (mm)	5000
Width without brush (mm)	1300
Height with rotating beacon (mm)	-
Wheelbase (mm)	1800
Track width front (mm)	1053
Track width rear (mm)	-

Optional Accessories

COMPACT SWEEPER SWINGO 200+



3rd brush



Brushes of polypropylene, steel or mixed material



Rear-view monitoring



Weed brush



Wander hose



High-pressure cleaning system



Additional water tank

CLEANGO 500 COMPACT SWEEPER



3rd brush



Brushes of polypropylene, steel or mixed material



Rear-view monitoring



Weed brush



Wander hose



High-pressure cleaning system



Additional water tank

SK500/600/660/700 TRUCK MOUNTED SWEEPER

Optional

- Dual version and simultaneous sweeping
- Brushes of polypropylene, steel or mixed material
- TFT monitor for up to 3 cameras



- Wander hose
- High-pressure cleaning system



- Spray bar



Kawan Lama[®]

#1 Commercial & Industrial Supply Company

Partner for Professional Products

JAKARTA (Head Office)

Tel. : (021) 582-8282

BALI

Tel. : (0361) 900-5859

BALIKPAPAN

Tel. : (0542) 763-698

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Tel. : (022) 421-3939

BATAM

Tel. : (0778) 473-566

BONTANG

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Tel. : (021) 8984-5858

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SEMARANG

Tel. : (024) 355-8788

SURABAYA (Juanda)

Tel. : (031) 868-8328

TANJUNG MORAWA

Tel. : (061) 794-1328

TUBAN

Tel. : (0356) 328-141

YOGYAKARTA

Tel. : (0274) 642-9098

COMPACT SWEEPER CLEANGO 500

Cleango 500 apply vacuum sweeping mechanism to collect the debris. Supported with 685 liter reserve water, the water is sprayed onto several critical points (2 nozzles in each brush & 2 nozzles in suction nozzle) to optimize capture of dust particles & maximise tank capacity.

All the debris are vacuumed by adjustable suction fan onto 5 m³ aluminium hopper. The large debris flap on suction nozzle allows for easy collection of even bulky debris.

Sweeping technology

- Suction nozzle guided on rollers
- Hydraulic adjustment of brush angle (option)
- Separate adjustment of disc brush ground pressure (option)



2.2 meter sweeping width with towed disc brush system & can be shifted 30 cm left & right



60° discharge angle

Clean environmental technology

- PM-10 3 star Certificate
- Optimum capture of dust particles
- Water recirculation system (optional)

Vehicle technology

- Efficient, quiet-running Euro6 6-cylinder diesel engine : VM R756 Eu5, 105 kW @ 2.300 rpm
- Hydrostatic drive with Eco-Drive mode
- Front-axle steering & 68° steering angle to have small turning radius

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Cleango 500 Euro	
Hopper	
System volume (m ³)	5
Discharge angle (low dump)	55°
Discharge height (low dump) (mm)	800
Discharge height (high dump) (mm)	800 – 1.500
Water system	
Water tank volume	685 l
Water spray system (bar/ l/min)	8/11
Sweeping unit	
Disc brush diameter / speed (mm, 1/min)	Ø 900, max140
Brush material	Steel, polypropylene or mixed
Sweeping width (mm)	2200
Sweeping width with third brush (mm)	3100
Fan speed max. (1/min)	3300
Air flow rate max. (m ³ /h)	14000
Drive	
Engine model	VM R756 Euro6
Power kW/HP	120/163
urea (AdBlue) injection and SCR system (cm ³)	4455
	6-cylinder, 500 Nm @ 1,400 1/min
Speeds	
Transport speed max. (km/h)	25 / 40 / 45 / 50
Operating speed max. (km/h)	12/opt.18
Steering	
Steering angle	68°
Turning circle between kerbs (mm)	5950
Turning circle between walls (mm)	7250
Weights	
Empty weight (kg)	5500
Total permissible weight up to 40 km/h (kg)	12100
Total permissible weight up to 50 km/h (kg)	11500
Dimensions	
Length without third brush (mm)	4473
Length with third brush (mm)	5485
Width without brush (mm)	1810
Height with rotating beacon (mm)	2707
Wheelbase (mm)	1850
Track width front (mm)	1600
Track width rear (mm)	1310





Clean environmental technology

- 1.600 l water tank capacity
- Stainless steel water tanks
- Optimum capture of dust particles – PM10 3-star certificate
- Electrically controlled water nozzles, maximum flexibility thanks to operation via the ES control panel

- Dust-free collection of debris thanks to spray nozzles in the suction nozzle, on the disc brushes and the feeder brush
- Hydraulically operated water pump with a flow rate of 48 l/min at 8 bar and dry-running prevention
- Residual water level indicator, displayed on the control panel, optional filling level sensor
- Wastewater drain hose on the hopper flap

Model	SK 500	SK 600	SK 660	SK 700
Hopper				
Volume (m ³)	5	6	7	7
Material	SS, non corrosive floor pan			
tipping angle for safe and quick discharge	47°		60°	
Sweeping Unit				
Disc brush diameter (mm)	600		750	
Disc brush speed	-	-	up to 150 1/min	-
Feeder brush length (mm)	1.250	1.500	1.300	1.500
Feeder brush diameter (mm)	350	400	400	400
Sweeping width (DB+suction duct) (mm)	900	1.000	1.200	1.000
Max. sweeping width (DB+feeder brush+suction duct/Nozzle) (mm)	2.000	2.300	2.350	2.300
Water System				
Capacity	1.100 l	1.800 l	1,600 l	2,100 l
Tank material	Non-corrosive, glass fibre reinforced plastic			
fresh water pump	up to 4 bar / 40 l/min	up to 4 bar / 40 l/min	up to 8 bar / 48 l/min	up to 4 bar / 40 l/min
Suction System				
Suction fan speed (1/min)	-	-	2.100-3.100	-
Suction fan air flow rate (m ³ /h)	-	-	18.000	-
Suction duct diameter (inner/outer) (mm)	550 / 600		550 / 600	
Suction nozzle width (mm)	-	-	750	-
Suction hose diameter (mm)	250		250	
Suction nozzle brush roller diameter (mm)	-	-	300	-
Suction fan & Hydraulic Unit Drive				
Continuously variable operating speed (km/h)			0 – 20	
Transport speed (km/h)	-	-	0-90	-
Dimensions of demountable device				
L x W x H (mm)	3.300 x 2.300 x 1.840	3.660 x 2.300 x 2.150	3.860 x 2.300 x 2.150	4.060x 2.300 x 2.150
Tipping angle	47°		60 °	
Vehicle Requirements				
Std. Truck chasis weight (Ton)	10 and 12		up to 18	
Dimensions *				
L x W x (H without warning beacon) (mm)	5.800 x 2.450 x 2.880	6.000 x 2.500 x 3.200	6.200 x 2.490 x 3.190	6.400 x 2.500 x 3.200
Frame overhang (mm)	1.020	1.100	-	1.165
Weights *				
Empty weight (kg)	approx. 6.640	approx. 8.235	8.300	approx. 9.625
Total permissible weight (Ton)	10 to 12	15 to 18	15 to 18	from 18
Payload (kg)	approx. 5.360	approx. 6.765	approx. 7.700	approx. 8.375
*The indicated weights and dimensions depend on the optional equipment and the chassis				
At condition	(example of 12-Ton vehicle incl. de-mountable device)*	(example of 15-Ton vehicle incl. de-mountable device)*	(example of 18-Ton vehicle incl. de-mountable device)*	(example of 18-Ton vehicle incl. de-mountable device)*



TRUCK MOUNTED SWEEPER

Schmidt truck mounted road sweeper contain sweeping module that mounted on any truck brand. With new technology, the module is designed as 'Plug & Play' module, so it will takes only 3 hours to assy on any truck brand. It apply combination method: vacuum & brush sweeping system to collect debris & throw directly onto hopper.

Hasle free vacuum system

Comparing with other mechanism (mechanical lifting to put debris onto hopper), vacuum system is hassle free : no need regular conveyor during operational.

Brush sweeping are special designed to make sure all debris are swept & no left behind.

TRUCK MOUNTED SWEEPER SK500/600/660/700

Truck mounted sweeper apply mechanical vacuum sweeping mechanisme to collect the debris.

Supported with update 1200 liter reserve water, the water is sprayed onto several critical points (on each brushes & suction nozel) to optimise capture of dust particles & maximise tank capacity.

All the debris are vacuumed by adjustable suction fan onto 5 - 7m³ Stainless Steel hopper.



Ergonomics & Comfort

- New operating technology with 7" colour touch screen
- Door control panel with joystick for the basic functions
- Easy, intuitive handling for the driver
- Combination of key and touch control
- Logical menu navigation
- Optimum display of all relevant information
- Acoustic and visual warnings
- Automatic adjustment of display brightness (light sensor)
- On-board diagnostic system

Water spray system

Vacuum system with water spray mechanism on several critical points (on brushes & on suction tube) will give much more benefits :

- Minimise air pollution : dust trapped with water (all Schmidt Road Sweeper are 3 star PM 10 certification)
- Effective to collect dust & sand that happened in most of Indonesia road condition
- Maximise tank capacity : all debris become wet & will drop down onto hopper

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Sweeping technology

- Optimum coverage of disc brushes, feeder brush and suction nozzle ensures optimum sweeping results even when cornering
- Adjustable brush ground pressure and brush speed reduces brush wear to a minimum
- Towed sweeping system ensures maximum brake-back protection, preventing the sweeping unit from being damaged by obstacles
- Brush roller integrated in the suction nozzle permits high operating speeds and thorough mechanical cleaning over the entire sweeping width
- High suction power guarantees reliable collection of debris



Air circulation/ clean air optimum capture of dust particle



Spray water nozzles in the suction nozzle, on the disc brushes and the feeder brush ensure the dust free collection of dirt

The front mounted spray bar to be swept with water to capture dust particle (optional)