



## ***A612 ROAD SWEEPER***





## Road sweeper mod. A612 by BSAsweepers

### TECHNICAL SPECIFICATIONS AND EQUIPMENT

Sweeper brand				BSA SWEEPERS SRL				
model				A 612				
Item	Unit of measurement	data	Item	Unit of measurement	data	Item	Unit of measurement	data
Total length of the equipment	mm	About 6200	Suction hoses	length	570	Suction hoses	length	570
Width	mm	2500-2550		width	160			160
Height of the equipment	mm	3250 (unloaded)	Suction hose diameter	mm	240/250			240/250
Hub height fully loaded	mm	1460	Suction hose length	mm	1500/1600			1500/1600
without waste-water fully-loaded	mm	165	Water tank capacity	Lt.	1300			1300
without waste-without water	mm	1100		additional	900/1400			900/1400
Equipment weight	Kg	4400/4800	total tank capacity (standard +additional)	Lt.	2200/2700			2200/2700
Unladen weight on the equipment on the chassis	Kg	9600	Water pump brand "Amov/Reverber"	Lt./min.	21			21
Useful carrying capacity	Kg	5400	High pressure lance	Bar	Da 4 a 130			Da 4 a 130
Waste container volumetric capacity	Lt.	6000	Noise in the cabin (depending on the chassis model)	Db (A)	66/70			66/70
Waste container tilting angle	Degrees	48	External noise at 7 mt. on the 4 sides	Db (A)	76			76
Waste dump height	mm	1250	Hydraulic driven high-power turbine	RP/M	3200			3200
Number of hydraulic circuits	N°	2	Impeller diameter	mm	760			760
Oil tank	N°	1	Casing structure with wear-free band	mm	4			4
Hydraulic oil tank capacity	Litri	110	walls thickness	mm				
Hydraulic system's working pressure	Bar	130	Material	-	Waste container	-	Waste container	Wear-free hardox stainless steel
Max oil temperature's	°C	70	Loading plate	-	Suction hose	-	Suction hose	AISI321 stainless steel
Allowable ambient temperature	°C	-20	Turbine wheel	-	Water tank	-	Water tank	T steel
	°C	40						AISI304 stainless steel
Brooms diameter	mm	750	Hydraulic components					
	mm	1000	Pumps	Brand	Bosh or Plessey			Bosh or Plessey
Central broom dimensions	diameter	400	Distributors	**	Valvol			Valvol
	length	1300	Electrovalves	**	Diplomatic			Diplomatic
Side brooms speed-diameter 750 mm	mm	50	Hydraulic motors	**	Dantoss- Ms			Dantoss- Ms
	max	100	Water pump motor	**	Dantoss			Dantoss
Main broom speed (cylindrical type diam. 400)	RP/M	50	Auxiliary engine Kohler/Lombardini	M. od.	KD12504 TCR			KD12504 TCR
	max	100	Maxpower	RP/M	55,4/2600			55,4/2600
Main broom speed (disc type diam. 400)	RP/M	50	Standard calibration load	RP/M	2600			2600
	max	100	Power at the calibration load	Kw	55,4			55,4
Cleaning path:			Rear suction hose	diameter	150/200			150/200
Right brush, suction hose, central broom	mm	2200-2400		length	4000 -1000			4000 -1000
Suction only	mm	580	Beacon lights with covers	N°	03-4pr			03-4pr
With right side suction hose	mm	1200	Separate casing for the auxiliary engine	Coating	Sound absorbing material			Sound absorbing material
Water sprayer nozzles	right brush	2	Pneumatic components	Brand	Wabco, Rexroth, Camozzi, Waircom, VDO			Wabco, Rexroth, Camozzi, Waircom, VDO
central brush	N°	3	Electric components	Brand	VDO, Bosch, Veolia			VDO, Bosch, Veolia
suction hose	N°	2-4	Nr. 2 infrared cameras and 7" color display	Brand	Cobo Bigpage			Cobo Bigpage
RHT bumper-front,LT bumper	N°	3-4	Warranty	months	12			12



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### **SIGNIFICANT SPECIFICATIONS**

- 6m<sup>3</sup> stainless steel waste container.
- Wear-free AISI 321 suction hose;
- Stainless steel tail on the waste container to repair the rear bumper bar and the lights from the dirt during the unloading operation.
- Suction air recirculation of the air intake with blowing/suction system;
- The air intake is not released in the atmosphere, but it is mostly reused (60/80%) through a sort of continuous cycle. This is the best system to avoid dust.
- Loading pipe (internal diameter 250 mm) made of steel-reinforced heavy rubber;
- Blowing pipe to lift the material (internal diameter 200 mm).
- Stainless steel water tank (1300 Lt. capacity);
- Optional stainless steel water tank (Lt. 900 or Lt. 1400 capacity);
- Shock absorbed brooms with double exit; the damper is articulated for the automatic return in presence of obstacles and to approach the broom to the suction hose in working mode; The support, the pressure to the ground and the brooms exit (suction group) are pneumatic-driven to increase the fast response, the precision and the reliability of the sweeper;
- Front broom with telescopic disengagement to clean the sidewalks (900 mm stroke) located on the driving side, available upon request;
- Nr. 2 suction hoses (one on the right and one on the left side);
- Rotating cylindrical central brush to work on the right and left-driving side with floating/oscillating system to overtake road bumps, ditches and inclined road surface;
- Soundproofing of the auxiliary engine and the suction/blowing fan through separate compartments coated with sound-proof material.
- Fan with impeller made of wear-free material installed on an elastic suspension with silent block, as the diesel engine;
- Hydraulic driven pistons water pump for the operation at low pressure (4 bar) for the water sprayers and at high pressure (130 bar) for the washing gun with a 15 mt pipe and wind-up device;
- Rear suction hose to collect leaves and to clean the culprits pre-chambers (150 mm or 200 mm diameter);
- Stainless steel water tanks (option: max. capacity 2700 Lt.);
- Engine pre-filter with channeled suction from the top of the bodywork;
- Possibility to install the disc brush for the leaves collection main service.

#### Remarks:

- Vehicle instrument panel to control all the operations and the equipment movements in ergonomic and high-visibility position for the operator; unloading operation controlled in the cabin as well.
- The vehicle length and the useful carrying capacity depends on the truck type.
- The equipment potential loading limit is 8000 kg.



#### **ENGINE / TURBINE**

Auxiliary engine in compliance with the EN/USA regulations with electronic adjustment of the rotation speed.  
Hydraulic driven high-power turbine with internal structure reinforced with wear-free material .  
Installation casing coated with sound absorbing material.

#### **WASTE CONTAINER**

Waste container made of stainless steel with a 6 cubic meters capacity, rear tilting hopper.  
Hydraulic locking system with watertight rear door.  
Inspection door on the right side with ladder for an easy access.

#### **HYDRAULIC SYSTEM**

105 Lt. oil tank with visual level indicator, low-level electric signaling, combined filter and bypass.  
Air-oil exchanger with nr. 2 electrically driven fans.  
Close-circuit group to activate the turbine with pump aligned with the auxiliary engine.  
Nr. 2 gear pumps activated by the power take-off on the auxiliary engine to handle the brooms, the waste container, the rear door and the water pump.  
Manual emergency pump.

#### **DUST SUPPRESSION SYSTEM**

1300 Lt. stainless steel water tank with possibility to add an additional tank of 900 or 1400 Lt. capacity.  
Front sprayers on the brooms, suction trolley and rear suction hose.  
Hand gun pipe to wash the equipment at low and high pressure.

#### **SWEEPING SYSTEM**

Hydraulically driven side brooms with steel bristles (750 mm diameter) with 3 positions and adjustment of the speed and the pressure to the ground.  
Central broom made of mixed steel bristles (400 mm diameter – 1300 mm length) with right/left floating and oscillating system.

#### **SUCTION SYSTEM**

Suction hose made of special steel with suction-blowing system for a superior operation speed which allows to recover the majority of the air blown, thus reducing the emissions of dust in the environment.  
Pneumatically driven flap to collect the bulky material.  
Rear suction hose with a 150 mm diameter (200 mm diameter upon request) - 4 mt. length and 1-meter long metal pipe.

#### **CONTROL PANEL**

User-friendly control panel to command and control the hydraulic, pneumatic, electric, water and electronic functions.  
Display to set and adjust the rotation speed of the engine and the diagnostic system.  
Manual adjustment of the brooms speed and the pressure to the ground.  
Manual activation/deactivation of the water circuit single sections.

#### **SAFETY**

Emergency stop in nr. 3 different areas (driving seat, external right side, external left side).  
Blocking valve on the hopper down -movements and rear door lock.  
Possibility to perform the emergency hydraulic operations with the manual pump located on the right side.  
Reverse gear acoustic alarm with variable sound level depending on the ambient noise.  
Nr. 2 beacon lights on the sweeping equipment in addition to the standard vehicle equipment.  
Inhibition of the water pump functioning in case of low-level of water in the tank.  
Inhibition of the turbine start-up in case of high rotation speed of the auxiliary engine.  
Automatic return of the side brooms in case of obstacles thanks to the peculiar design of the broom holding arm and the shock absorber.

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