

Data Sheet for Hino 500 Series
GH8JJ7A-PG3(4x2)
Road Sweeper 6m³

Chassis Model: Hino 51927
 Chassis Code : GH8JJ7A-PG3
 Year Model: 2022 or newer
 Country of Manufacturer :Japan For Chassis &Turkishfor Sweeper

Dimensions (For Chassis & Body) mm

Overall Length (OL)	7,460
Overall Width (OW)	2,550
Overall Height (OH)	3,210
Wheel base (WB)	4,330

Weights (For Chassis & Body) Kg

Chassis mass	5,220
Sweeper Body	4,800
Loading capacity (Payload)	8,980
Rating Gross Vehicle Mass (GVMR)	19,000

Engine

Model & Emission	HINO J08E-WH- EURO3.
Type	Diesel, Turbocharged and intercooled, 4cycle, in-line 6 Cylinder, overhead camshaft, water cooled. Suitable for weather and dusty area in Iraq& local fuel.
Combustion system	Direct injection type.
Displacement (L)	7.684 L
Compression ratio	18.0 : 1
Maximum Power /Speed	195 kW (265PS) @2,500 rpm (JIS Gross) 191 kW (260PS) @2,500 rpm (ISO Net)
Maximum Torque /Speed	804 Nm (82kgfm) @1,500 rpm (JIS Gross) 794 Nm (81kgfm) @1,500 rpm (ISO Net)
Fuel System (Fuel injection pump)	Electronic control, common rail type

Clutch

Type	CSP-380, dry single plate with damper springs.
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Gear Box

Model	MX06, manual 6-speeds, synchromesh 2nd-6th, overdrive.
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Axles

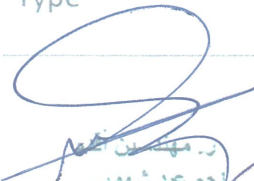
Front Axle

Type	Reversed Elliot, " I " section beam.
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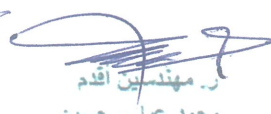
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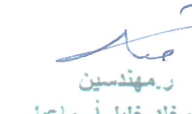
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Rating Capacity (kg)	7,500.
Rear Axle	
Type	Full-floating, singlereduction, single speed byhypoid gearings.
Rating Capacity (kg)	11,500.
Steering	
Type	LHD, Telescopic and tilt steering column, recirculating ball integral power steering.
Tire & Wheel	
Front	Front: 315/80R22.5.
Rear	Rear: 295/80R22.5.
No. of Tires	7 (including 1 spare tire).
Wheels	Front: 22.5 x 9.00. Rear: 22.5 x 8.25. ISO 10 stud wheel.
Suspension	
Front	Semi-elliptic leaf springs (reinforced type) with single action shock absorbers.
Rear	Semi-elliptic main leaf springs and auxiliary springs.
Braking System	
Service Brake	Full air, S-cam, leading and trailing shoes, Dual circuit, ABS Equipped.
Parking Brake	Air operated spring brake acting on rear axle, for emergency and parking purpose.
Exhaust Brake	Equipped.
Electrical	
No. of Batteries	2 x 12 V ,65Ah.
Alternator	24 V ,60Ah.
Horn	Electric Horn.
Fuel tank	
Capacity	200 L.
Fuel filter	Equipped with pre-filter and sedimenter.
CABIN	
Type	Forward control, all steel welded construction with torsion bar tiltmechanism, Semi floating (rubber

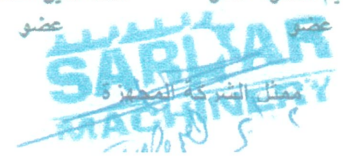

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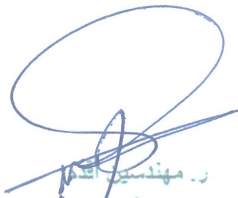

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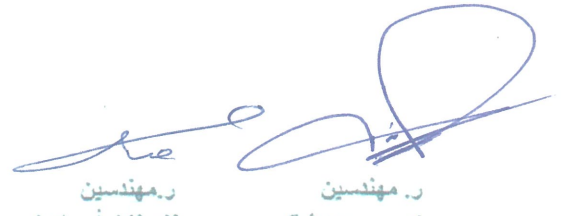
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	mounting).
Seating capacity	Three.
Driver seat	High-back 750mm, 8-way adjustable seat.
Seat cover	Vinyl Cover.
Seatbelt	Equipped with ELR (Emergency Locking Retractor) and warning.
Sun visor	Driver side.
Windshield wiper	2-speed with wash and intermittent.
Outside rear view mirror	Equipped.
Air condition	Equipped.
Car Audio	AM/FM radio with CD player
Cigar lighter	Equipped.
Door Lock	Equipped.
Power Window	Equipped.
Instrument	
Speedometer	Equipped (Km/h).
Tachometer and over run warning	Equipped with buzzer.
Fuel gauge	Equipped.
Coolant level warning	Equipped.
Air pressure gauge	Equipped.


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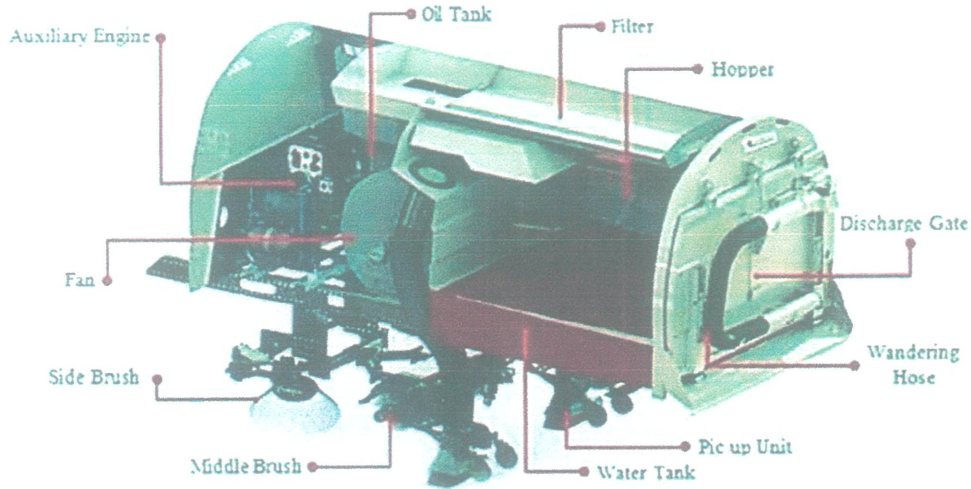

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General Technical specifications for 6m³ Road Sweeper

ملاحظة: الجزء التخصصي ترك قبول مواصفاته الى الجهة المستفيدة وليس من مسؤولية اللجنة.



Make: KATMERCILER

GENERAL SPECIFICATIONS

Sweeper body weight.....	4800 Kg
Vehicle sweeping width.....	2200 -2750 mm
Sweeping performance.....	25,000 – 30,000 m ² /h
Sweeping speed.....	05 / 30 km/h
Garbage Capacity	6 m ³
Water Capacity.....	1,200 lt.
Water pump (brush watering system).....	minimum 3 bar.
Circular brush.....	400 mm
Cylindrical brush.....	1,300 mm
Vacuum fan.....	3,000 rpm
Equipment engine.....	83 Kw gross @ 2200 rev/min
Engine brand.....	Perkins
Hydraulic oil tank.....	Not less than 60 liter

1- Garbage Tank

Capacity | 6.0 m³

- Floor of the Garbage tank will be built with chromium nickel sheets (CrNi) and the joints will be properly and evenly welded.
- The garbage canister will be lifted up and down with the aid of a hydraulic cylinder
- The garbage canister will be designed to tilt with an angle of 30 degrees during unloading.

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- The rear lid will feature a thick sealing to ensure leak tightness.
 - Connection of the fan the hydro motor will feature bedding on the motor compartment surface with the vacuum fan.
 - Vacuum fan will be equalized at 3,000 RPM
- From portion of the garbage canister will be the engine department.
This section, called the engine department, will be constructed with sound insulation feature.
Engine department will be independent of the garbage tank.

2- Water Tank

Water Tank Volume at least 1,200 liters

- Water storage tank will be independent of the garbage. This water tank will be built with chromium nickel sheets (CrNi) and have a least 1,200 liters pf volume (can be modify).
- Its inner walls will be polyester coated to prevent rusting.
- Under the water tank a suction filter will be put allowing the operator to remove and install it back easily.
- Inside the water tank an emptying or filling valve will be installed.
- A filter will be installed at the filter opening.
- The water tank will feature a level indicator.
- Spray nozzles installed at the upper section of the brushes and in the vacuum channel will be made of rust free materials.

3- AUXILIARY Engine

- Brand : Perkins
- Number of Cylinders : 4
- The auxiliary engine gross output : water cooled TURBO diesel , 83Kw @ 2200 rev/min .
- The auxiliary engine gross torque : 418 N.m
- Engine (Bore X Stroke): 105mm X 127mm
- The auxiliary engine will be equipped with automatic gas and controlled from the cabin.
- The engine will have the required oil, diesel fuel, and air filters.
- The engine will be equipped with an operating and time clock.
- Required engine gauges (oil, fuel, air, battery, and charge level) will be installed on the control panel in the cabin.

4- VACUUM SUCTION FAN

- The fan will make its suction through the suction channel located at the upper surface at the garbage hopper
- The fan will be of closed type and with helix wings.
- Auxiliary motor to be coupled with the fan, and will be moved with torque converter.
- The fan suction hose will be of spring type.
- The vacuum fan will be controlled from the cabin.

5- HYDRAULIC PUMP & TANK

- The hydraulic pump will never switch to pressurizing other than the time sweeping is being done
- The oil tank will be of at least 60 liters
- The pressure gauge, oil and heat level indicators will be installed of the tank for the system pressure.
- A filter system will exist on the liquid suction and return lines.

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6- FRONT CIRCULAR BRUSH

- A steel wire brush in circular shape will be installed behind the both front right and left wheels of the vehicle. The hydro motor will be at least 250 cm³ volume. The angles of these brushes will be adjustable.
- Circular brush will have a pressing/clearance adjusting system.
- The pressing force will be adjusted based on the conditions of any given garbage mass.
- The circular brush will be of 400 mm diameter.
- All motion of the brush will be controlled from the cabin panel.
- There will spray nozzles around the brush
- The operating brush either the right on or the left will be lighted through a projector for night time operation.
- The circular brush will be of free oscillation which will allow it to run at a position depending on the slope and roughness of any given street.
- The circular brushes will be offered optionally with steel alloy and plastic
- Lowering and lifting speed of the circular brushes will be adjustable.

7- MIDDLE SECTION HORIZONTAL CYLINDRICAL BRUSH

- A cylindrical brush of at least 300 mm diameter and 1,300 mm length will be installed between the two frames.
- The cylindrical brush will be driven by the hydro motor.
- The cylindrical brush will be made of polypropylene.
- The cylindrical brush will have free oscillation and operate synchronously with the circular brush.

8- CONTROL PANEL & THE GAUGES

- Control arms and switches will be available at the driver cabin of the vehicle to switch on an off the auxiliary engine, circular brush, vacuum fan, hydraulic pumps.
- Required lighting and warning buttons will be available on the control panel.
- All the cord used in the control panel will have socket connectors and identifying labels.
- Function of each switch on the control panel will be clearly identified with a legible label.

9- WATER SYSTEM

- There will be a water pump independent of the auxiliary engine .
- Through a distribution valve, the water pump will canalize the water to the brushes as will as the suction cup and the garbage canister.
- Spray nozzles will be switching on and off through and electric operated valve.

10- PORTABLE HOSE

- A portable hose of 4 m length will be available at the rear door of the vehicle.
- The portable hose installed on the rear door of the vehicle will feature pipe for easy portability.

11- HYDRAULIC CYLINDERS

- Hydraulic cylinder will be made of honed steel pipe and chromium shaft.
- Hydraulic cylinder will be controlled through and electro-hydraulic valve.

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12- VACUUM SUCTION SYSTEM

- The vacuum suction system will be over the 2 wheels featuring a suction line and a pressure line.
- The Vacuum suction system will be moving up and down pneumatically and will become free upon touching the ground.
- There will be a bucket with Wheel, during suction this bucket will be opening and closing automatically.
- There will be a lid on the vacuum suction system on the suction line
- The vacuum suction system will be equipped with spray nozzles There will be lid on the pressure line of the vacuum suction system.
- The vacuum suction system will be equipped with spry nozzles

13- SAFETY SYSTEMS:

- The equipment will be manufactured for use on the motor ways and all the available safety systems will be applied.
- Running and operating manuals on the safety systems will be supplied together with the vehicle.
- All the moving parts of the vehicle will be safe and conforming to the safety norms of the motor ways.
- Safety labels on the vehicle will have distinguishing colors.
- Camera system equipped on both sides.

14- ENGINE COMPARTMENT AND THE LIDS:

- The engine compartment will have total sound insulation.
- Engine radiator shroud will be in contact with the hood and it will be placed in a way that it would suck air from outside at only one spot.

15- PAINTING:

All the equipment will be painted in two coats of the desired color over the prime. Interior walls of the garbage tank will be painted in two coats of anti-rust.

16- WARNING SIGNS

- 360 degrees rotating beacons will be installed in the front or rear parts of the vehicles.
- A warning system of a flashing arrow sign will be installed in the rear section of the vehicle.
- A projector will be installed to light up the circular brush and the area to be swept off.

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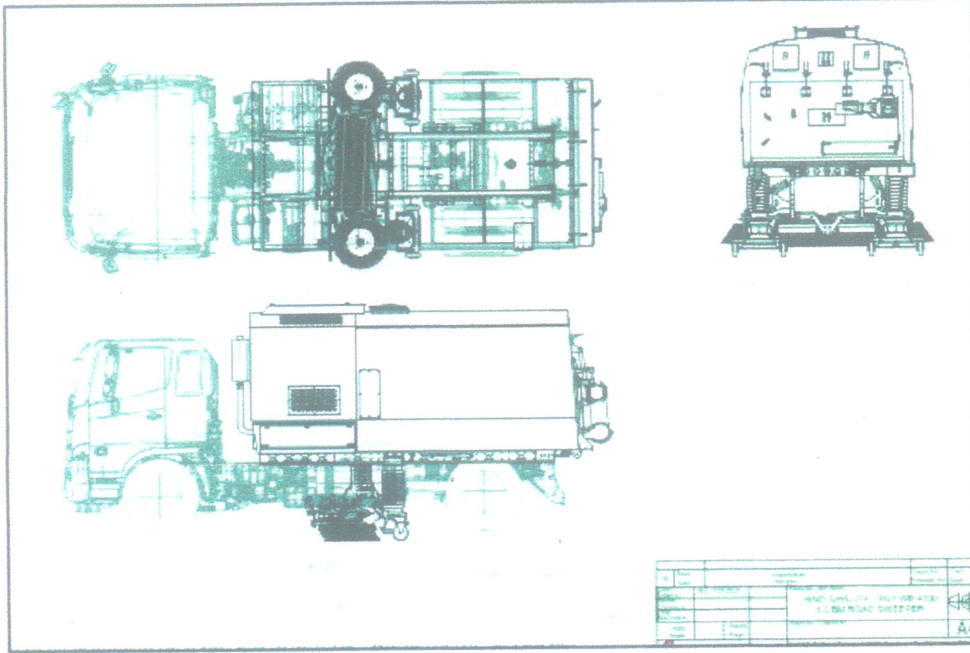
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