

STEEL WHEEL – LANDFILL COMPACTOR (40T)

Steel wheeled front-end loader converted for landfill compaction with operating mass approximately 40,000kg, fitted with a ROPS cab

OPERATING SPECIFICATION

- Rated operating capacity to be not less than 39,000kg
- Travel speed (forward or reverse) not less than 10km/h
- All direction visible climate controlled ROPS cab with air suspension seat, air conditioner and heater.
- The cab must be equipped with defroster, radio and seat belt.

1. ENGINE

- The machine is to be diesel powered engine with liquid cooling having a minimum gross engine output power of not less than 300kW.
- Engine to be naturally aspirated or turbocharged
- Emission certification to be compliant to EPA-T3 (EU St3A) or equivalent
- Turbo 2 Pre-Cleaner and Modification of Intake Higher
- A hydraulically driven fan must be automatic reversible and computer controlled with programming.

2. TRANSMISSION

- Not less than a two speed transmission is required with a maximum travel speed of approximately 10km/h both forward and backwards
- Single stage torque convertor, modular counter shift, power shift transmission with electro hydraulic control and auto-downshift.
- The transmission to be fitted with locking device to switch it to neutral safety.

3. STEERING AND BRAKES

- Foot applied brake or any equivalent mechanism is required to ensure effective and efficient braking /speed reduction and or parking.
- An articulation of not less than 30° is required.

4. WHEELS

- Steel compactor wheels
- Weld-on rolling wire guard
- Cleats, not less than 200mm, with hard facing tips.

5. DIFFERENTIAL

- Differential Lock or limited slip are required in the front and rear, to assist with traction.

6. BLADE

- Blade capacity of not less than 14m³
- Blade shape: Semi U shaped blade is required
- Top Blade Guard for overfill (Trash Rack)
- Blade liner Standard

7. PROTECTION

- Guards covering engine and transmission, with easy access to the latter.
- Front and rear differential guards with axle seal guards.
- Radiator guard
- Centre pin Guard
- 2x Front and rear striker-bars cover the front and rear wheels.

8. CAB

- ROPS - must meet the requirements of SAE-J1040 and ISO 3471:1994
- FOPS - must meet the requirements of SAE-J1043 and ISO 3449:1992 Level I
- Fully enclosed, Sealed pressurized cab with heater/defroster,

- Air conditioning,
- Side windows with all round vision,
- Mechanical and air suspension seats with seat belt,
- Radio

9. LIGHTING AND ELECTRICAL

- Two front and one rear work lights must be fitted.
- An orange revolving light must be fitted on the roof of the machine offered.
- Cab mounted instrument panel with ignition, fuel gauge, hour meter and electronic throttle
- Incorporate into the instrument panel a warning light cluster which also has audible alarms for:
 - Low charge pressure,
 - Engine water temperature,
 - Hydraulic oil pressure,
 - Blocked air filter,
 - Engine oil pressure,
 - Alternator
- All lights must be covered and protected.

10. PAINT COLOUR

Machines or equipment are to be painted golden yellow unless otherwise specified.

11. PRICES TO INCLUDE THE FOLLOWING:

One each of the following is to be supplied with each machine:

- (i) Spare parts list (in book form)
- (ii) Workshop repair manual
- (iii) Operator's instruction.

COMPULSORY SPECIFICATION QUESTIONNAIRE

The Technical Schedule must be completed in full; failure to comply will invalidate your bid

1. SIELENT POINTS

Make

Model

Operating weight

2. ENGINE

Net power output

_____ kW

Net torque output

_____ Nm

Emission certification

Permissible exposure limits for noise

_____ dB

What pre-cleaning system is fitted?

Indicate the operation of fan

3. TRANSMISSION

Type of transmission

Number of forward speeds

Number of reverse speeds

Maximum travel speed

_____ km/h

4. Steering and Brakes

What type of braking mechanism is on offer?

Braking

Parking

Articulation (in Degrees)

5. Wheels

What kind of wheels are fitted?

Are the wheels fitted with wire guard?

Wheel Diameter

_____ m

Number of cleats fitted

6. Differential

What anti-slip/traction system is use in the differential?

7. Blade

What is the blade capacity offered?

_____ m³

What is the blade shape offered?

Is a Blade spill guard fitted?

8. Protection

Are the following protection guards fitted:

Guards covering engine and transmission

Front and rear differential guards with axle seal guards

Radiator guard

Centre pin guard

2x Front and rear striker-bars cover the front and rear wheels

9. CAB

Is the cab ROPS certified? (SAE-J1040 and ISO 3471:1994)

Is the cab FOPS certified? (SAE-J1043 and ISO 3449:1992 Level I)

Is the cab fully enclosed and lockable?

Is the cab sealed pressurized?

Is the cab fitted with heater/defroster or Air conditioning?

Does it have sound protection?

What level?

_____ dB (A)

Is it fitted with a windscreen and side windows with all round vision?

Are windshield wipers fitted?

Type of operators' seat?

Is a seat belt fitted?

10. LIGHTING AND ELECTRICS

Detail of all lights

Fuel gauge

Is an orange revolving light fitted?

Indicate the instruments fitted in the cab

fuel gauge

hour meter

Is audible alarms fitted for:

Engine oil pressure

Low charge pressure

Engine water temperature

Hydraulic oil pressure

11. PAINT COLOUR

What colour is the machine
