

CRAWLER DOZER – LANDFILL COMPACTOR (30T)

Crawler Dozer converted for landfill compaction with operating mass approximately 30,000kg, fitted with a ROPS cab and rear ripper,

OPERATING SPECIFICATION

- Rated operating capacity to be not less than 28,000kg
- 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 180 KW.
- 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, operating in forward blowing direction to prevent the radiator grill from clogging. (Prevent overheating)
- The fan must be automatic reversible and computer controlled with programming.
- Perforated engine hood and side doors.

2. TRANSMISSION

- A three gear speed is required with a maximum travel speed of not less 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

- Dual final drive is required to provide required traction in all operations and terrains
- Foot applied brake or any equivalent mechanism is required to ensure effective and efficient braking /speed reduction and or parking.
- A turning radius of not less than 7° is required.

4. BLADE

- Blade capacity of not less than 7m³
- Blade shape: Semi U shaped blade is required
- Top Blade Guard for overfill (Trash Rack)
- Blade liner Standard

5. RIPPER

- Hydraulically-controlled parallelogram-type ripper with three shanks with a maximum digging depth of not less than 750mm
- Ripper must be able to tilt

6. UNDERCARRIAGE

- The under carriage to be fitted with track rollers of not less than 7 on each side and not less than 2 carrier rollers on each side.
- Number of track shoes on each side not less than 38
- Standard clean-out holes for Grouser Shoes (Landfill Spec)
- Final Drive Guards
- Track roller and sprocket guards
- Front and rear striker-bars
- 2 x Final Drive Spill-Bars Rear of the Dozer
- Guards covering engine and transmission, with easy access to the latter.

7. 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

8. 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.

9. PAINT COLOUR

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

10. 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

Are the hood and sides perforated?

3. TRANSMISSION

Type of transmission

Number of forward speeds

Number of reverse speeds

Maximum travel speed

_____ km/h

4. Steering and Brakes

Type of final drive on offer

What type of braking mechanism is on offer?

Braking

Parking

Turning radius (in Degrees)

5. Blade

What is the blade capacity offered?

_____ m³

What is the blade shape offered?

Is a Blade spill guard fitted?

6. Ripper

How many shanks could be fitted?

What is the maximum digging depth?

_____ m

7. Undercarriage

Number of track rollers

Number of side rollers

Does the grouser shoes have clean-out holes?

Are the following protection guards fitted:

Final Drive Guards

Track roller and sprocket guards

Front and rear striker-bars

2 x Final Drive Spill-Bars Rear of the Dozer

Guards covering engine and transmission

8. 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?

Is it fitted with a Hydraulic park brake?

9. 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

10. PAINT COLOUR

What colour is the machine
