

Specifications: Class 8 Tandem Axle Dump Truck

Component

Minimum Technical Requirement

Engine

Diesel; Min **450 HP / 1,650 lb-ft Torque**; Engine Brake included.

Transmission

Allison 4500 RDS 6-speed automatic with **PTO provision**.

Front Axle

20,000 lbs capacity; Set-Back configuration for tighter turning.

Rear Tandem

46,000 lbs capacity; **Driver-controlled locking differentials**.

Rear Suspension

46,000 lbs capacity; Hendrickson Haulmax EX or equivalent.

Dump Body

14–16 ft length; **AR450 Steel** (1/4" floor, 3/16" sides). And insulated.

Hydraulic Gate

High-lift hydraulic tailgate with dual cylinders and air-latches.

Bed Vibrator

12V DC Electric Vibrator (e.g., Cougar DC-3200 or equal); Min 3,000 lbs force.

Vibrator Install

Mounted on reinforced plate under body floor; in-cab **momentary switch** control.

Hoist

Front-mount telescopic cylinder; outboard mounted for stability.

Controls

All hoist, gate, and vibrator controls located in a **center console tower**.

Critical Bid Clauses to Include:

- **Vibrator Mounting:** "Vibrator must be mounted using a weld-on plate to prevent stress fractures to the dump body floor. All wiring must be protected by loom and fused at the power source."
- **Hydraulic Tailgate Safety:** "The hydraulic gate must include a mechanical safety lock or check valve to prevent accidental opening during transit." OSHA Compliance.