



BID SPECIFICATION FOR D275AX-5SL Landfill Dozer

BASIC SPECIFICATIONS

- Y\_\_\_ N\_\_\_ This machine shall be a currently advertised standard production Sanitary Landfill Dozer
- Y\_\_\_ N\_\_\_ Basic operating weight of standard landfill tractor shall not be less than 116,528 lb (52865 kg) (includes lubricants, coolant, full fuel tank, Full-U blade with tilt cylinder, ROPS/FOPS cab, landfill counterweight, landfill package, and operator).
- Y\_\_\_ N\_\_\_ The overall length of the standard tractor shall be at least 26' 0" (7924 mm) when equipped with a Full-U blade and standard landfill package.
- Y\_\_\_ N\_\_\_ The overall width of the standard tractor when equipped with an Full-U blade shall be at least 15' 2" (4615 mm).

ENGINE

- Y\_\_\_ N\_\_\_ The engine shall be of diesel type, four cycle, water cooled, direct injection and fully equipped with all necessary operating accessories.
- Y\_\_\_ N\_\_\_ The engine shall meet Tier III emission specifications for the U.S. (EPA) and Europe utilizing proven cooled EGR technology
- Y\_\_\_ N\_\_\_ Engine shall develop at least 449 net fwhp (335kW). The net flywheel hp shall be for standard equipped engine operating under SAE standard conditions (J1349) at 25° C (77° F) and 29.32 in Hg (99 kPa) dry barometer using 35 degrees API gravity fuel. Standard equipment shall include turbocharger, aftercooler, air cleaner, water pump, fuel pump, muffler, and lubricating oil pump.
- Y\_\_\_ N\_\_\_ Machine shall have an alternator (high capacity) which is at least 90 amp, and provides additional power required for electrical accessories.
- Y\_\_\_ N\_\_\_ Engine shall have a turbocharger and after cooler providing full fwhp to a minimum of 10,000 ft (3,000 m) before altitude deration for standard arrangements and deration shall be automatic thereafter.
- Y\_\_\_ N\_\_\_ Maximum governed speed shall be 2,000 RPM at rated hp.
- Y\_\_\_ N\_\_\_ Machine shall be equipped with water separator.
- Y\_\_\_ N\_\_\_ Machine shall be equipped with 24-volt electrical starting and operating system.
- Y\_\_\_ N\_\_\_ Engine air cleaner shall have a service indicator.
- Y\_\_\_ N\_\_\_ Engine shall be equipped with a fuel priming pump.
- Y\_\_\_ N\_\_\_ The machine's engine enclosures shall consist of perforated gull-wing engine side covers that optimize cooling.
- Y\_\_\_ N\_\_\_ The enclosures shall have a gap seal package which minimizes material from entering the engine compartment.
- Y\_\_\_ N\_\_\_ Turbine air precleaner shall be available as a dual stage precleaner to improve engine filtration. The precleaner shall remove large particles from the incoming air before they reach the air filter, thus extending filter life two to four times.
- Y\_\_\_ N\_\_\_ Machine shall have a standard Hydraulic Reversing Fan which automatically reverses the fan at preset intervals, purging debris from the radiator and engine compartment. Fan shall be controlled by the electrical control module.
- Y\_\_\_ N\_\_\_ The machine shall be equipped with a raised prescreener which helps reduce the likelihood of airborne paper or plastics plugging the air intake. It shall provide a larger air inlet.

POWERTRAIN/TRANSMISSION

- Y\_\_\_ N\_\_\_ Steering and transmission control shall be in one electronic controlled palm command joy stick conveniently mounted to the operator's left. Joystick control shall have lock out lever.
- Y\_\_\_ N\_\_\_ The transmission shall provide at least three speeds forward and three speeds in reverse.
- Y\_\_\_ N\_\_\_ At least 5 preset travel speed functions will be provided to reduce gear shifting time during repeated operations
- Y\_\_\_ N\_\_\_ Transmission shall have a forward ground speed of at least 7.0 mph (11.2 km/h).
- Y\_\_\_ N\_\_\_ Transmission shall have a reverse ground speed of at least 9.3 mph (14.9 km/h).
- Y\_\_\_ N\_\_\_ The transmission shall be a planetary type power shift with torque converter. The torque converter shall have a standard lock up function for increased efficiency
- Y\_\_\_ N\_\_\_ Transmission shall have a standard manual and auto downshift mode.
- Y\_\_\_ N\_\_\_ Transmission shall electronically adjust each clutch engagement depending on travel conditions improving operator ride and component life.

STEERING

- Y\_\_\_ N\_\_\_ Steering shall be provided by steering planetary units with an independent hydraulic pump and motor.
- Y\_\_\_ N\_\_\_ Steering shall provide counter rotation turns.



- Y\_\_\_ N\_\_\_ Wet, multiple-disc, pedal-controlled service brakes are spring applied and hydraulically released
- Y\_\_\_ N\_\_\_ Gearshift lock lever must apply parking brake
- Y\_\_\_ N\_\_\_ Steering and transmission control shall be in one electronic controlled palm command joy stick conveniently mounted to the operator's left.

## HYDRAULICS

- Y\_\_\_ N\_\_\_ Hydraulics and controls shall have a fully enclosed protected system.
- Y\_\_\_ N\_\_\_ Hydraulics and controls shall have a closed centered load sensing system for precise and responsive control, a variable displacement piston pump which adjusts hydraulic flow to match implement demands.
- Y\_\_\_ N\_\_\_ Machine shall have a single proportional pressure palm command joy stick for dozer control functions with lock lever conveniently mounted to the operator's right.

## UNDERCARRIAGE

- Y\_\_\_ N\_\_\_ Undercarriages shall have high-tensile-strength monocoque track roller frame construction to resist bending and torsional loads.
- Y\_\_\_ N\_\_\_ Undercarriages shall have bolt-on, replaceable sprocket segments.
- Y\_\_\_ N\_\_\_ Undercarriages shall have the capability of replacing worn sprocket segments without breaking track.
- Y\_\_\_ N\_\_\_ Undercarriages shall have heavy-duty sealed and lubricated track to minimize entry of dirt, with oil lubrication of internal bushing and pin surfaces. Design shall be that of the tractor manufacturer.
- Y\_\_\_ N\_\_\_ Undercarriages shall have hydraulic track adjustment by grease gun, fully sealed.
- Y\_\_\_ N\_\_\_ Undercarriages shall have roller frame attached to the tractor by a pivot shaft and pinned equalizer bar.
- Y\_\_\_ N\_\_\_ Undercarriages shall have a lifetime lubricated carrier roller.
- Y\_\_\_ N\_\_\_ Undercarriages shall have lifetime lubricated track rollers.
- Y\_\_\_ N\_\_\_ Undercarriages shall have eight (7) track rollers per side.
- Y\_\_\_ N\_\_\_ Standard gauge shall be minimum 7' 5" (2260 mm).
- Y\_\_\_ N\_\_\_ Standard shoe shall be minimum 24 in (610 mm).
- Y\_\_\_ N\_\_\_ Standard length of track on ground shall be minimum 11' 5" (3480 mm).
- Y\_\_\_ N\_\_\_ Ground contact area with standard shoe shall be minimum 6,580 sq in (4.24 sq m).
- Y\_\_\_ N\_\_\_ Standard maximum ground pressure when equipped to spec shall be 17.1 psi (118 kPa).

## FINAL DRIVES

- Y\_\_\_ N\_\_\_ Final drives shall be fully enclosed.
- Y\_\_\_ N\_\_\_ Final drives shall be double reduction.
- Y\_\_\_ N\_\_\_ Final drives shall be isolated from ground-induced shock loads.

## OPERATORS STATION

- Y\_\_\_ N\_\_\_ Modular cab shall be available through the tractor manufacturer.
- Y\_\_\_ N\_\_\_ Cab will be attached to main frame using silicon oil/spring style damper mounts providing a quiet, comfortable environment
- Y\_\_\_ N\_\_\_ Tractor shall be equipped with electronic indicators and gauges which monitor critical operational systems and alert the operator using 4 stages of alerts when potential problems occur.
- Y\_\_\_ N\_\_\_ Optional tractor ripper shall have multi-shank (3) adjustable parallelogram design.
- Y\_\_\_ N\_\_\_ Operator seat shall include retractable seat belt.
- Y\_\_\_ N\_\_\_ Machine shall have adjustable armrests to help improve operator comfort for long productivity hours.
- Y\_\_\_ N\_\_\_ An adjustable contour suspension seat shall be provided.
- Y\_\_\_ N\_\_\_ Cab shall be equipped with air conditioning and an air circulation system with controls easily accessible from the operator seat.
- Y\_\_\_ N\_\_\_ Cab mounted air conditioner condenser and fans relocated from the engine compartment to the Cab to reduce debris and plugging shall be standard.
- Y\_\_\_ N\_\_\_ Cab shall provide higher cab pressurization for improved cab air quality in dust and debris-laden applications.
- Y\_\_\_ N\_\_\_ Cab shall include a 12 volt, 10 amp converter.
- Y\_\_\_ N\_\_\_ The cab shall be radio ready and come equipped with speakers, antenna, all necessary wiring and a bracket to hold a radio.
- Y\_\_\_ N\_\_\_ A decelerator pedal shall allow the operator to modulate ground speed effortlessly.
- Y\_\_\_ N\_\_\_ Engine speed is controlled by electric dial eliminating maintenance of linkage and joints



- Y\_\_\_ N\_\_\_ Machine shall have heavy duty steps and handles that are manufactured from plate steel and solid rod to withstand the rigors of landfill operations.
- Y\_\_\_ N\_\_\_ Machine shall have a black painted hood/cylinders/back of blade available to reduce glare from lights while operating at night and also while operating in direct sunlight.
- Y\_\_\_ N\_\_\_ The lighting package shall include a rear supplemental light, relocated on the Cab to help protect from debris.

## STRUCTURE

- Y\_\_\_ N\_\_\_ Mainframe shall be designed and built by the track type tractor's manufacturer
- Y\_\_\_ N\_\_\_ Mainframe shall be of a hull design with casting at all critical stress areas

## DOZER OPTIONS

- Y\_\_\_ N\_\_\_ Semi-U tilt shall be minimum 14' 1" in (4300 mm) wide.
- Y\_\_\_ N\_\_\_ Semi-U tilt shall be minimum 9' 4" (2833 mm) high with trash rack.
- Y\_\_\_ N\_\_\_ Semi -U tilt shall have minimum 3' 3" (1000 mm) tilt.
- Y\_\_\_ N\_\_\_ Semi U tilt shall have minimum 4' 9" (1450 mm) ground clearance.
- Y\_\_\_ N\_\_\_ Semi-U tilt shall have minimum 2' 1" (640 mm) digging depth.
- Y\_\_\_ N\_\_\_ Semi-U tilt shall have minimum dozer capacity of 36.6 cubic yd (28.0 cubic m).
- Y\_\_\_ N\_\_\_ Full-U tilt shall be minimum 15' 2" in (4615 mm) wide.
- Y\_\_\_ N\_\_\_ Full-U tilt shall be minimum 9' 6" (2883 mm) high with trash rack.
- Y\_\_\_ N\_\_\_ Full -U tilt shall have minimum 3' 6" (1070 mm) tilt.
- Y\_\_\_ N\_\_\_ Full- U tilt shall have minimum 4' 9" (1450 mm) ground clearance.
- Y\_\_\_ N\_\_\_ Full-U tilt shall have minimum 2' 1" (640 mm) digging depth.
- Y\_\_\_ N\_\_\_ Full-U tilt shall have minimum dozer capacity of 44.3 cubic yd (33.9 cubic m).

## GUARDING

- Y\_\_\_ N\_\_\_ The landfill package arrangement shall be installed at the original manufacturer's facility or at an approved alternate location.
- Y\_\_\_ N\_\_\_ The guarding package shall include guards for the final drives to minimize seal damage from nylon strapping.
- Y\_\_\_ N\_\_\_ The guarding package shall include guards for the front idler to minimize seal damage from wire and nylon strapping.
- Y\_\_\_ N\_\_\_ The guarding package shall include guards for the pivot shaft to minimize seal damage from wire and nylon strapping.
- Y\_\_\_ N\_\_\_ The chassis shall have guards to help protect the engine compartment by deflecting debris from rising upward along the chassis.
- Y\_\_\_ N\_\_\_ The guarding package shall include heavy duty hinged guards for the radiator to protect the cooling system.
- Y\_\_\_ N\_\_\_ The tilt cylinder lines shall run through the push arms and be fully protected from contact damage while maintaining hose flexibility.
- Y\_\_\_ N\_\_\_ The guarding package shall include guards for the fuel and hydraulic tank to help protect implement hydraulic oil tank, battery box and fuel tank.
- Y\_\_\_ N\_\_\_ The guarding package shall include guards for the crankcase (extreme service), which serves dual purposes, to minimize damage to vital power train components by keeping debris away from these components.
- Y\_\_\_ N\_\_\_ The lighting package shall include a cylinder supplemental light (two front), positioned from the hood opening to the top of the cylinders. The hood openings shall be covered with plates to minimize the amount of debris from entering this area.
- Y\_\_\_ N\_\_\_ Striker bars shall be available to minimize the debris striking or damaging the machine. The Front shall be angled design to keep debris from riding up the track and damaging the fenders, fuel or hydraulic tanks. The Rear shall be rigid mounted to the drawbar.
- Y\_\_\_ N\_\_\_ The machine shall have a belly guard that can be electrically raised or lowered.
- Y\_\_\_ N\_\_\_ Laminated thermal shields shall cover the exhaust stack inside the compartment, hot-side of the turbocharger, EGR piping and the exhaust manifold.

## SERVICEABILITY

- Y\_\_\_ N\_\_\_ Engine oil change interval shall be no less than 500 hours.
- Y\_\_\_ N\_\_\_ A diagnostic test bank shall be included for ease of service.
- Y\_\_\_ N\_\_\_ Final drives shall have a minimum 1,000 hour oil change period.
- Y\_\_\_ N\_\_\_ The transmission shall have a minimum 1,000 hour oil change period.



- Y\_\_\_ N\_\_\_ The engine shall be mounted so as to be accessible for adjustment and normal servicing without being detached from the tractor unit.
- Y\_\_\_ N\_\_\_ Final drives shall be of a modular design for easy service, and shall allow for removal by only breaking track.
- Y\_\_\_ N\_\_\_ Undercarriage shall have sealed and lubricated track.

#### MINIMUM SERVICE FILL CAPACITIES

- Y\_\_\_ N\_\_\_ Fuel tank capacity shall not be less than 222 gal (840 L).
- Y\_\_\_ N\_\_\_ Cooling system capacity shall not be less than 26.4 gal (100 L).
- Y\_\_\_ N\_\_\_ Each final drive shall have a capacity of not less than 10.6 gal (40 L)
- Y\_\_\_ N\_\_\_ Hydraulic tank capacity shall not be less than 34.3 gal (130 L)

#### ADDITIONAL FEATURES

- Y\_\_\_ N\_\_\_ Machine shall be equipped with a monitor device which can send location, SMR, operational status, gauge level, abnormality codes, cautions, maintenance information, and have security and theft control set through wireless technology.
- Y\_\_\_ N\_\_\_ Monitor shall feature self-diagnostic function to aid in troubleshooting and reduce downtime
- Y\_\_\_ N\_\_\_ Ripper and winch shall be optional.
- Y\_\_\_ N\_\_\_ A trapezoidal track shoe shall be available to reduce refuse packaging within the track and shall also reduce track chain tightening and accelerated pin and bushing wear. Trapezoidal holes shall help minimize packing by allowing the sprocket to punch out dirt and debris.

Bid specs are intended for use by North American buyers only and are subject to change.