

Kanahwa County Solid Waste Authority Skid Steer Bid Specs

The skid steer shall be equipped with the following features and/or specifications:

MACHINE SPECIFICATIONS

ENGINE

- Y__N__ 4-cylinder, turbocharged, water-cooled diesel engine with a minimum 68 net horsepower
- Y__N__ Engine displacement of 207 cubic inches
- Y__N__ Direct, high pressure common rail electric fuel injection
- Y__N__ Minimum peak torque rating of 232 ft-lbs. at 1400 RPM
- Y__N__ Tier 4 Final
- Y__N__ Replaceable, full-flow cartridge type oil filter
- Y__N__ Stacked air after cooler, engine radiator, hydraulic oil cooler configuration
- Y__N__ Dual element air cleaner
- Y__N__ Organic Acid Technology (OAT) coolant
- Y__N__ Glow plugs
- Y__N__ 500-hour engine oil change interval

ELECTRICAL

- Y__N__ 12-volt electrical system
- Y__N__ Minimum 120-amp alternator
- Y__N__ No maintenance 1000 CCA battery

HYDROSTATIC TRANSMISSION

- Y__N__ Servo controlled hydrostatic four-wheel drive
- Y__N__ Tandem mounted, axial piston hydrostatic transmission with integral charge pump driven directly off the engine fly wheel
- Y__N__ Optional Electro-hydraulic controls
- Y__N__ Drive pump to engine ratio - 1:1
- Y__N__ Drive pump system relief pressure of 5220 psi
- Y__N__ Fixed displacement, radial piston drive motors
- Y__N__ Final drive - single reduction chain drive
- Y__N__ Two travel speeds (optional)
 - Y__N__ Low range minimum 7.0 mph
 - Y__N__ High range minimum 10.5 mph

HYDRAULICS

- Y__N__ Standard equipment pump - Gear pump with rated flow at 24.2 gallons per minute
- Y__N__ 3- spool loader control valve
- Y__N__ Loader control valve relief pressure of 3,046 psi
- Y__N__ Port relief pressure/loader raise - 3,263 psi
- Y__N__ Port relief pressure/bucket dump - 1,160 psi
- Y__N__ Port relief pressure/bucket curl - 3,770 psi
- Y__N__ 6 micron spin-on replaceable hydraulic filter with warning indicator
- Y__N__ Loader arm auxiliary hydraulics with proportional thumb wheel activated

CHAIN CASE

- Y__N__ The skid steer loader shall have a heavy-duty chain case
- Y__N__ ASA #100 drive chains for each chain case
- Y__N__ Chain tensile strength - 30,000 lb.
- Y__N__ Separate lubrication system for each chain case
- Y__N__ Inspection plate in each chain case
- Y__N__ System to adjust and maintain the correct chain tension

AXLES

- Y__N__ Heavy-duty, one-piece forged induction-hardened high carbon steel axles
- Y__N__ Seal guard to keep debris away from the axle seal
- Y__N__ Life-time splash lubrication
- Y__N__ Axle diameter – 2.44”
- Y__N__ Axle length – 15.6”
- Y__N__ Torque at max displacement and relief pressure - 5,957 lb. ft.

BRAKES

- Y__N__ Spring-applied, hydraulic-release disc brakes
- Brakes engaged by depressing on/off brake button on handle or instrument panel, raise seat bar, get off seat, stop engine
- Y__N__

LOADER AND LINKAGE FEATURES

- Y__N__ Loader arms shall be a radial arm geometry design
- Y__N__ Dual bucket cylinders
- Y__N__ Loader lift arm support strut
- Y__N__ Mechanical attachment coupler
- Y__N__ Rated Operating Capacity - 2,400 lbs.
- Y__N__ Tipping load - 4,800 lbs.
- Y__N__ Optional – Hydraulic self-leveling
- Y__N__ Optional - Hydraulic attachment coupler
- Y__N__ Optional - Factory installed Ride Control

BUCKET

- Y__N__ 64" Skid Steer Construction Scrap Grapple Bucket

OPERATOR ENVIRONMENT

- Y__N__ The operator compartment shall be accessible from the front of the machine
- Y__N__ ROPS/FOPS level 1 canopy with side screens
- Y__N__ Optional 8 inch Color LCD Display
- Y__N__ Optional Economy Mode (auto idle shutdown)
- Y__N__ Control lockout system
- Y__N__ Tilt forward ROPS/FOPS
- Y__N__ Electrical parking brake control
- Y__N__ Hand throttle
- Y__N__ Foot throttle
- Y__N__ Mechanical H-Pattern ergonomic hand controls
- Y__N__ Operator's compartment floor cleanout panel
- Y__N__ Rear window with emergency escape
- Y__N__ Padded seat bar with integral arm rests that can be raised to lock out the loader lift arms and bucket controls
- Y__N__ Suspension vinyl seat with retractable 2" seat belt
- Y__N__ Dome light
- Y__N__ Tool pocket
- Y__N__ 12 volt power plug socket
- Y__N__ Cup holder
- Y__N__ Top window
- Y__N__ Headliner
- Y__N__ Alarm package (backup and horn)
- Y__N__ Optional ISO or H-pattern switchable electric over hydraulic programmable controls

- Y__N__ Optional Ignition Timeout
- Y__N__ Optional Machine Settings User Access Levels
- Y__N__ Operator Security Codes
- Y__N__ Optional Bluetooth Radio
- Y__N__ Optional Creep Speed Mode

OPERATING WEIGHT

- Y__N__ Machine operating weight to equal 7,400 lbs.

PERFORMANCE

- Y__N__ Maximum height to the top of the ROPS of 78.8 inches
- Y__N__ Minimum height to the hinge pin of 125.1 inches
- Y__N__ Minimum dump height with loader arm at maximum of 100.9 inches
- Y__N__ Minimum reach with bucket at full height of 22.6 inches
- Y__N__ Minimum wheel base of 52 inches
- Y__N__ Minimum lift cylinder breakout force of 5,530 pounds force
- Y__N__ Minimum bucket cylinder breakout force of 8,680 pounds force
- Y__N__ Minimum tipping load capacity of 4,800 pounds
- Y__N__ Minimum operating load of 2,400 pounds
- Y__N__ Minimum cycle time raising the loader arms with rated load of 3.6 seconds
- Y__N__ Minimum cycle time lowering the loader arms (power down) with rated load of 2.0 seconds
- Y__N__ Minimum bucket rollback time of 2.0 seconds
- Y__N__ Minimum bucket dump time of 2.6 seconds

SERVICEABILITY

- Y__N__ The skid steer loader shall be easy to service via single-point daily service points
- Y__N__ 25.5 gallon fuel tank with the fill location at the back of the machine
- Y__N__ 11.75 total gallon hydraulic oil system
- Y__N__ 8.9 qt. engine oil with filter
- Y__N__ 5.8 qt. chain tanks (per side)
- Y__N__ Hydraulic oil sight gauge
- Y__N__ Radiator located directly behind the engine
- Y__N__ Easy-to-clean hydraulic oil cooler
- Y__N__ Optional auto engine protection shutdown

WARRANTY

- Y__N__ Full machine warranty of one year, unlimited hours
- Y__N__ Full machine warranty of two years, 2,000 hours
- Y__N__ Engine warranty of two years or 2,000 hours

- Y__N__ Back Up Camera
- Y__N__ Rotating Amber Warning Light to be on anytime the ignition is on
- Y__N__ 12x16.5 Solid Flex Tires