

NOTICE AND INFORMATION FOR BIDDERS

- Compact Track Loader

FREEPORT PARK DISTRICT
1122 S. BURCHARD AVENUE; P.O. BOX 417
FREEPORT, IL 61032

BID DUE: 10:30 am, THURSDAY, MARCH 21, 2019

The Freeport Park District invites your proposal to supply:

- (1) new Compact Track Loader as described in the attached specifications.

Proposals will be evaluated based upon the following criteria:

- Proposed equipment must meet minimum specifications.
- Acceptance, if any, will be for the low responsive bid submitted by the responsible bidder.
- In all cases, the Freeport Park District reserves the right to accept or reject any or all bids as it determines to be most advantageous to the Freeport Park District.

Sealed proposals will be received until **10:30 am, Thursday, March 21, 2019** at the Freeport Park District, 1122 S. Burchard Ave., PO Box 417, Freeport, IL, 61032, at which time they will be publically opened and read.

Each bid must be submitted on the proposed form provided, and placed in a sealed envelope marked "COMPACT TRACK LOADER". Attach to your bid a printout showing the equipment specification for the equipment you are bidding to supply.

- Bid price is delivered price to Freeport, Illinois.
- Bid price shall not include Federal excise tax or State sales tax. An exemption certificate will be furnished by the Park District upon request of the successful Bidder.

The Board of Park Commissioners reserves the right to waive technicalities and to reject any or all bids.

Contact Ron Schneider, Superintendent of Recreation, at rschneider@freeportparkdistrict.org or 815-235-6114 for additional information concerning this bid.

SPECIFICATION

Compact Track Loader

Freeport Park District
1122 S. Burchard Avenue; PO Box 417
Freeport, IL 61032
815-235-6114 (Phone)
815-233-9210 (Fax)

Bid Due: 10:30 am Thursday, March 21, 2019

GENERAL

The Compact Track Loader, as specified, shall be furnished new of current year. Bidder must supply manufacture, model, and equipment specification for the proposed equipment. Equipment modifications to meet the requirements of this specification shall be limited to the manufacturer's published standard and optional equipment. Exceptions to minimum specifications shall be noted. Failure to note exceptions to minimum bid specifications shall be cause for rejection of bid.

Dimensions

Angle of Departure	29°
Dump Angle @ Maximum Height	37°
Dump Height with Standard Bucket	96.3" (2447 mm)
Reach @ Maximum Height	34.2" (870 mm)
Ground Clearance	7.3" (185 mm)
Height to Hinge Pin	124" (3149 mm)
Cab Height	81.3" (2065 mm)
Length without Attachment	108.4" (2753 mm)
Length with Standard Bucket	136.8" (3474 mm)
Overall Operating Height	158.5" (4026 mm)
Carry Position	8.6" (218 mm)
Rollback Angle @ Carry Position	31°
Turning Radius with Standard Bucket	87.7" (2228 mm)
Length of Track on Ground	58.5" (1486 mm)
Overall Width 12.6" Tracks	72.9" (1851 mm)
Bucket Width	74" (1880 mm)
Overall Width 17.7" Tracks	78" (1981 mm)
Bucket Width	80" (2032 mm)

Performance

Rated Operating Capacity (per ISO 14397-1).....	2470 lbs. (1120 kg)
Tipping Load (per ISO 14397-1).....	7057 lbs. (3201 kg)
Operating Weight (SAE J732).....	9339 lbs. (4236 kg)
Travel Speed Low Range.....	6.2 mph (10 km/hr)
Travel Speed High Range.....	10 mph (16.1 km/hr)
Push Force.....	8063 lbs. (3657 kg)
Ground Pressure with 17.7" Track.....	4.2 psi (0.029 MPa)

Engine/Electrical

- Loader shall have a 4 cylinder, liquid-cooled diesel; 74.0 hp (55.2 kW) at 2600 governed RPM.
- Loader engine shall have a minimum torque of 206.5 lbf-ft (280 N-m) at 1800 RPM.
- Engine displacement shall be no more than 146.0 in³ (2.39L).
- Loader engine shall be turbo charged.
- Loader shall be equipped with a hydraulically driven, variable speed cooling fan.
- Loader shall have a reversing cooling fan. Reversing fan shall include three modes:
 - Off
 - Manual Operation: Operator Can momentarily reverse fan direction as desired
 - Automatic Operation: Loader will reverse the fan automatically based on fluid temperatures
- Engine shall meet Tier 4 compliance without the aid of a diesel particulate filter (DPF).
- Spark arrestor device, dual element air cleaner and glow plug cold weather assist shall be provided as standard equipment.
 - Cold weather assist shall be automatically activated.
 - Air cleaner shall be a dry replaceable cartridge with safety element and pre-cleaner.
 - Air intake pre-cleaner shall be included in the air cleaner housing.
 - An additional system shall be available as an option to increase pre-cleaner efficiency.
- Fuel recirculation system that can bypass fuel cooler to aid in cold weather operation shall be standard equipment.
- Loader shall limit engine RPM until specified engine operating temperature is attained to protect engines from premature wear due to cold temperatures.
- Engine coolant shall include propylene glycol anti-freeze with freeze protection to -34°F (-37°C).
- Loader shall be equipped with a Diesel Oxidation Catalyst (DOC).
- Engine shall utilize an Engine Gas Recirculation (EGR) system.
- The loader's fuel injection system shall include a High Pressure Common Rail (HPCR).
- Fuel filter shall have a 4 micron C rating at 99.6% efficiency.
- Loader shall be equipped with a dual path cooling system which brings cool, clean air from above the machine for engine and hydraulic system cooling. While at the same time removing hot air from the engine and hydrostatic area.
- Battery shall be a 12 volt with a minimum of 1000 cold-cranking amps.
- Alternator shall be a minimum 90 amp.
- Starter shall be a 12 volt; 4.02 hp (3.0 kW), gear type.
- Engine accessory belt shall not require any adjustments.
- Engine shutdown shall be provided as standard equipment and shall monitor engine coolant temperature, engine oil pressure and engine RPM to help prevent engine damage.
- Engine block heater shall be provided to provide easier starting during cold weather operation.

Drive System

- Shall have a fully hydrostatic track drive.
- Transmission shall be infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors.
- Hydrostatic piston pumps shall be belt driven from the engine.
- Shall have a suspension undercarriage that includes:
 - Shall have 4 suspended triple flange forged steel rollers per side.
 - Shall use single flange forged steel rear idlers.
 - Shall use dual flange forged steel front idlers.

- Shall have an all steel suspension design.
- Steel rollers and idlers shall be permanently sealed and lubricated requiring no routine maintenance.
- Shall use austempered ductile iron sprockets.
- Grease cylinder shall be used for adjustment.
- Track tension shall be adjusted by adding grease to the tensioning cylinder.
- Rubber track shall have steel cables and embeds.
- Parking brake shall be spring applied, pressure release multi-disk brake.
- Tracks: 17.7" rubber tracks

Hydraulic System

- Pump type shall be a gear type pump for standard and high flow hydraulics.
- Hydraulic pump capacity for standard flow shall be capable of providing 23 gpm (87.1 L/min) for bucket, lift arm and attachment operation.
- Hydraulic pump capacity for high flow shall be capable of providing 30.5 gpm (115.5 L/min) for high flow hydraulic attachment operation.
- System pressure at the quick couplers shall be 3500 psi (24.2 MPa).
- Variable flow auxiliary hydraulics shall be standard equipment.
 - Shall include flush-face pressure release quick couplers.
 - Shall include dual direction detent.
- Control valve shall be three spool, open center, series type.
 - Lift spool shall include a detent position for lift arm float function.
 - Front auxiliary hydraulic spool shall include a detent function in both forward and reverse directions.
 - Valve shall allow tilt to function when auxiliary hydraulics are at relief.
- Cylinders shall be a double-acting type.
 - Dual tilt cylinders shall have a cushioning feature on dump and roll back.
 - Dual lift cylinders shall have a cushioning feature on lift arm down.
- Hydraulic system shutdown shall be provided as standard equipment and shall monitor hydraulic oil temperature and hydrostatic charge pressure.
- A hydraulic oil cooler shall be standard equipment.
- Hydraulic filter shall be a cartridge style design.
- Hydraulic oil level sight gauge shall be easily visible from the loader outside.
- Auxiliary hydraulic hoses shall be routed inside the lift arm.
- Auxiliary quick coupler block shall be integrated into the lift arm front and must be protected with steel guarding.
- A feature for relieving pressure from the auxiliary hydraulics circuit shall be provided by pressing in and holding the quick couplers.
- Shall have rear auxiliary hydraulics as an option and include.
 - Electric finger controls on left joystick.
- Hydraulic bucket positioning.
 - Shall include on/off switch inside operator cab.
- Automatic Ride control.
 - Automatic Ride control is activated by the amount of hydraulic pressure in the lift arms.
 - Shall include on/off switch inside operator cab.
- Lift circuit port relief valve shall be standard equipment.
- Auxiliary hydraulics circuit port relief valve shall be available as an option.
- Shall have inertia welded rods and bases at the end of the cylinders.
- Cylinders shall meet the following minimum specifications:

Function	# of Cylinders	Bore Diameter	Rod Diameter	Stroke
Lift	2	3" (76.2 mm)	1.75" (44.5 mm)	24.93" (633.2 mm)
Tilt	2	3" (76.2 mm)	1.50"(38.1 mm)	13.74" (349.0 mm)

Operator Controls

- Loader direction, steering, and travel speed shall be controlled by two independent steering levers.
- Loader lift and tilt functions.
 - Optional- Shall be selectable between foot pedals or hand lever controls.
- Optional Selectable Joystick Control (SJC) system shall be available to allow operator to switch between ISO control pattern (loader direction, steering and travel speed on left hand joystick; loader lift and tilt functions on right hand joystick) or H-Pattern (left hand joystick controls lift function and left side drive function; right hand joystick controls tilt function and right side drive function).
 - Speed Management shall be available on SJC equipped loaders to allow the loader to be maneuvered at a slower travel speed, even during maximum movement of the joysticks.
 - Drive Response shall be available on SJC equipped loaders to change how responsive the loader's drive and steering systems are when the operator moves the joysticks.
 - Steering Drift Compensation shall be available on SJC equipped loaders to compensate for normal variations such as track tension and wear, driving on uneven terrain such as crowned road surfaces and when using side shift attachments such as trenchers.
 - Horsepower Management shall be available on SJC equipped loaders to allow the engine to operate at maximum horsepower and torque.
 - Optional Auto Idle shall be available on SJC equipped loaders to automatically reduce the engine speed to idle after a set time interval of loader drive and/or hydraulic inactivity.
 - Auto Idle shall be turned on or off with the press of a button.
 - The time interval before the engine speed reduces to idle shall be adjustable from 4 to 250 seconds on loaders equipped with deluxe loader instrumentation.
- Lift and Tilt Compensation shall be available on SJC and ACS equipped loaders to adjust the lift and tilt control sensitivity.
- Standard front auxiliary hydraulics shall be controlled by electrical switches located on the right steering lever handle or right hand joystick.
- Optional rear auxiliary hydraulics controlled by electrical switches located on the left steering lever handle or left hand joystick.
- Electrical switches on the steering levers or joystick handles shall activate turn signals, all attachment control functions, continuous flow control for auxiliary hydraulics, front horn and two-speed control.
- Engine speed shall be controlled by a rotary knob mounted on right hand cab post.
- Engine speed shall be controlled by a foot pedal with optional Selectable Joystick Controls.
- Parking brake shall be controlled by a finger operated rocker switch on left hand cab post.
- Engine starting and shutdown functions shall be controlled electrically with a keyless start.

Operator Comfort

- Shall have an enclosed cab
- Air conditioning shall be included without changing loader profile.
 - Shall have the capability to be used in colder temperatures to aid in defrosting.
- Cab heat shall be included without changing loader profile.

- Heater system shall have a minimum BTU output of 33,000 BTU.
- Front door shall be a one piece curved design that opens to the side opposite of the auxiliary quick couplers.
- Enclosed cab shall be pressurized to 0.1 inches of water.
- An air ride seat required.
- Arm rest shall be standard equipment.
- Cup holder required.
- Engine throttle shall be located directly in front of the operator.
- The optional Selectable Joystick Control system shall be mounted to the seat and shall be able to adjust independently of the seat.
- Sound reduction kit required.
- Top and rear windows shall be available as standard equipment.
- Front and rear window wipers required.
- Intermittent front wiper shall be available as an option.
- Shall have special application polycarbonate doors and windows available as an option.
- Dome lights shall be available as an option.
- Front and rear operating lights shall be available as standard equipment.
 - Front operating lights shall be halogen with minimum output of 175 watts.
- Side windows shall be mounted on the outside of the cab with the ability to be locked in open and/or closed positions.
- Side and rear window defrost required.
- An FM/AM Radio shall be available as an option.
 - Radio shall be located in front of the operator.
- 12 volt power ports required.
- Clean out holes in the foot well shall be provided as standard equipment.
- Shall meet ISO 5006:2006: *Earth-moving Machinery. Operator's Field of View. Test Method and Performance Criteria* without aides such as rear view mirrors.

Capacities

- Fuel Tank shall have a minimum capacity of 43.9 gal. (166.4 L).
- Cooling System without heater shall have a minimum capacity of 3.0 gal. (11.4 L).
- Cooling System with heater shall have a minimum capacity of 3.1 gal. (11.8 L).
- Hydraulic Reservoir shall have a minimum capacity of 2.7 gal. (10.2 L).
- Hydrostatic System shall have a minimum capacity of 11.9 gal. (45 L).

Standard Loader Instrumentation

- The loader conditions shall be monitored by a combination of gauges and warning lights in the operator's line of sight that monitor the following functions. The system shall alert the operator of monitored loader malfunctions by way of an audible alarm and visual warning lights.
- Gauges
 - Engine Coolant Temp
 - Fuel Level
- Warning Lights
 - Engine Coolant Temp
 - Engine Malfunction
 - Fuel Level
 - General Warning

- Hydraulic Malfunction
- Indicators
 - Seat Bar
 - Lift & Tilt Valve
 - Parking Brake
 - 2-Speed
 - Seat Belt
 - 3-Point Shoulder Belt
 - Turn Signals
- Data Display Screen
 - Battery Voltage
 - Drive Response Setting
 - Engine Preheat
 - Engine RPM
 - Maintenance Clock
 - Hourmeter
 - Service Codes
 - Speed Management
 - Steering Drift
- Additional Instrumentation & Display Features
 - Coolant Temperature & Oil Pressure
 - Hydrostatic Charge Pressure
 - System Voltage
 - Keyless Start
 - Multi-Language Display
 - Password Lockout
 - 2-Speed Lockout
 - Attachment Control
 - Diagnostic Capability
 - Digital Clock
 - Engine/Hydraulic System Shutdown Function
 - Help Screens
 - Job Clock
 - Metric and English Capabilities

Attachment Compatibility

- All attachments shall be mounted on a quick-change mechanism. No attachments will be considered unless it can be removed or mounted by an experienced operator in two minutes or less. *Prior to acceptance of bid, testing of attachments may be required.*
- The quick change mechanism will incorporate two handles that drive spring loaded, wear compensating wedges into the attachment ensuring a tight attachment fit-up.
- The quick change mechanism shall be driven by hydraulics.
- Powered hydraulic quick change mechanism shall be activated by non-locking two-way rocker switch to raise and lower attachment levers.
- Backhoe operation shall be possible with the lift arms in the down position.
- A remote attachment control device shall be available for specified attachments to start the loader and operate the attachment from outside the operator control area.

- A single control unit (Attachment Control Kit – ACK) shall be provided which will control all available attachments.
- Attachment Control unit shall not use mechanical relays.
- Shall be equipped with standard flow hydraulics as standard equipment.
- High flow hydraulics required.
- No attachments will require more than three hydraulic hoses and one electrical line for operation.
- 80" Heavy Duty Bucket with bolt on cutting edge.

Serviceability

- Engine shall be transversely mounted to provide easy access to daily maintenance items.
- Access shall be available to the following through the rear door/tailgate and rear screen.
 - Air cleaner
 - Alternator
 - Battery
 - Cooling system (engine oil and hydraulic oil coolers) for cleaning
 - Engine oil and fuel filters
 - Engine oil drain and dipstick
 - Starter
 - Air Conditioning Compressor
- Easy access shall be available to all lift arm grease points.
- Quick-Tach pivots shall have replaceable wear bushings.
- Rod end of the tilt cylinder shall have a replaceable bushing.
- A rear bumper shall extend beyond the tailgate to protect the tailgate from damage.
- Tailgate shall be constructed of ¼" thick solid steel with no holes or slots.
- Tailgate shall have an optional lock for vandal proofing.
- Tailgate shall be equipped with doorstop to hold door open while servicing.
- Tip-up operator cab shall give access to certain hydraulic system components.
- Shall have a single-plane lift arm design to minimize side-to-side movement resulting in less wear.
 - All lift arm pivot points align in a single plane.
- Tilt cylinder shields shall be available as optional equipment to provide additional protection to the tilt
- cylinders and hoses.

Safety Equipment

- An enclosable operator cab with side screens shall be provided as standard equipment. Cab shall meet SAE standards J1040 and J1043 for Rollover Protective Structure and Falling Object Protective Structure. Minimum inside cab width of 33" (838 mm).
- A seat belt and an electric switch operated parking brake shall be furnished as standard equipment.
- A 3-point seat belt shall be available as standard equipment on loaders equipped with 2-Speed option.
- A 3-point seat belt shall be available as optional equipment.
- Additional operator protection shall be provided by a seat bar or similar device which restricts lift arm operation when not in use.
- A lift arm support device shall assist in servicing the loader and be provided as standard equipment.

- Grab handles shall assist the operator in mounting and dismounting the loader will be provided as standard equipment.
- Emergency exit provided through front door accessed via orange colored handles or back window accessed via orange tag.
- Loader shall be equipped with an interlock control system which requires that the operator be seated in the loader with the seat bar down in place and the engine running before the hydraulic lift, tilt and the traction drive system can be operated. The auxiliary hydraulics shall deactivate when the operator raises the seat bar. Should the engine not start or a system problem occur with the lift arms raised, the lift arms can be lowered by turning the lift arm by-pass control knob clockwise ¼ turn. Then, pull up and hold until the lift arms slowly lower.
- Shall have operational instructions and warnings by decals with pictorials and international symbols plus some messages in four basic languages: English, French, German and Spanish.
- Shall have a weather resistant operator handbook written in English attached to the loader.
- Loader shall include an alarm package including a horn and backup alarm.
- Rear operating lights shall be mounted to the tailgate and shall be recessed to minimize damage.
 - Rear operating lights shall include backup lights and red colored taillights.
- Side light kit shall be available as an option.
- Side light kit shall include 2 LED lights with a minimum output of 800 lumens per side.
- Strobe lights or rotating beacons required.
- 4 way flashing lights shall be available as an option.
- Turn signals shall be available as an option.
- FOPS Level II shall be available as an option.
- Fire extinguisher shall be available as an option.
- Shall have one single or four point lift kits available for lifting the loader without affecting rollover and falling object protection features of the operator cab

Training Resources

- A comprehensive Compact Track Loader Operator Training Kit shall be available. The kit shall include a video, classroom and hands-on training. This kit shall also be available in Spanish.
- A comprehensive Service Safety Training Kit shall be available. The kit shall include a video, classroom and hands-on training.

Warranty

- 2 years or 2,000 hours manufacturer's standard factory warranty

BIDDERS PROPOSAL

- Compact Track Loader

FREEPORT PARK DISTRICT
1122 S. BURCHARD
P.O. BOX 417
FREEPORT, IL 61032
815-235-6114

BID DUE: 10:30 am; Thursday, March 21, 2019

We hereby propose to sell to the Freeport Park District the specified vehicle for the amount(s) set forth as follows:

Base Bid: Compact Track Loader as specified \$ _____
Delivery \$ _____
TOTAL BID AS SPECIFIED \$ _____

The price is guaranteed for _____ calendar days from the bid due date.

Indicate Order Cutoff date: _____

Indicate the estimated number of calendar days for delivery after receipt of order: _____ days.

Attach a printout showing the manufacturer, model, and equipment specification for the equipment you are bidding to supply.

SUBMITTED BY:

BUSINESS NAME _____

BIDDER ADDRESS _____

AUTHORIZED AGENT (Print) _____ TITLE _____

SIGNATURE _____ DATE _____

PHONE _____ FAX _____

EMAIL _____