

Richard Appelhanz

From: maintenance
Sent: Tuesday, December 14, 2021 4:41 PM
To: Richard Appelhanz
Subject: FW: Bid Quote

FYI,

Alan L. Parrish | *Director Of Maintenance & Facilities*
Topeka Metro | 200 NW Crane, Topeka, KS 66603
P (785) 730-8690 | F (785) 233-3063 | C (785) 633-2500
maintenance@topekametro.org

From: Drew Judd <djudd@whitestarmachinery.com>
Sent: Tuesday, December 14, 2021 4:41 PM
To: maintenance <maintenance@topekametro.org>
Subject: Re: Bid Quote

Please deduct the cost of the 80" Heavy Duty Bucket (1,174.20) and Bolt on Cutting Edge (\$308.20) from our quote.

Total deduction - \$1,482.40

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From: maintenance <maintenance@topekametro.org>
Sent: Tuesday, December 7, 2021 3:46:02 PM
To: Drew Judd <djudd@whitestarmachinery.com>
Subject: [External] Bid Quote

Drew,

In our bid documents we do not need a bucket.

Please remove 80" Heavy Duty bucket (\$1,174.20) & Bolt on cutting edge. (\$308.20)

Please resubmit an updated bid reflecting the changes.

Thank you,

Alan L. Parrish | *Director Of Maintenance & Facilities*
Topeka Metro | 200 NW Crane, Topeka, KS 66603
P (785) 730-8690 | F (785) 233-3063 | C (785) 633-2500
maintenance@topekametro.org

COVER PAGE

Proposer Information

Company Name WHITESTAR MACHINERY
Address 835 NE HWY 24
City, State, Zip TOPEKA, KS 66608
Main Phone 785-232-7731

Contact Person Information

Name DREW JUDD
Job Title SALES
Phone 785-925-1887
Alt. Phone _____
Email DJUDD@WHITESTARMACHINERY.COM

Signature 

Date: 12-7-21

PRICE QUOTE

Year, Make & Model of Vehicle 2022 Bobcat S76

Mileage -

Invoice Price (includes all charges, delivery, fees) \$ 53,342.49

List all additional costs below.

Any cost other than those listed on this price quote will not be paid.

1. _____ \$ _____
2. _____ \$ _____
3. _____ \$ _____
4. _____ \$ _____

Total Price of Vehicle Plus Additional Costs \$ _____

Metro is tax exempt – do not include sales tax in your price quote.

Warranty Information

Basic 24 months 2000 Hours miles

Powertrain _____ months _____ miles

Other (list type and term)

_____ months _____ miles

_____ months _____ miles

_____ months _____ miles

DISADVANTAGED BUSINESS ENTERPRISES (DBE) CERTIFICATION

This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, *Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs*. The national goal for participation of Disadvantaged Business Enterprises (DBE) is 10%. Metro's overall 2019-2021 goal for DBE participation is 2.00%; the race neutral goal is 1.12%, and the race conscious goal is 0.88%. There is no contract goal for this procurement.

The contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of this DOT-assisted contract. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as Metro deems appropriate. Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (see 49 CFR 26.13(b)).

The contractor is required to pay its subcontractors performing work related to this contract for satisfactory performance of that work no later than 30 days after the contractor's receipt of payment for that work from Metro.

The contractor may not hold retainage from its subcontractors.

The contractor must promptly notify Metro, whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work, and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. The contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of Metro.

Signature: _____

AKJ

Name and Title: _____

Drew Judd / Sales

Company Name: _____

WHITE STAR MACHINERY

Date: _____

12-7-21

LOBBYING CERTIFICATION

The undersigned contractor certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions. See 49 CFR 20.100.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 USC. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. [Note: Pursuant to 31 USC 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure. See 49 CFR 20.400.]

The undersigned contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 USC 3801, et seq, apply to this certification and disclosure, if any.

Signature: _____

[Handwritten Signature]

Name and Title: _____

Drew Juon / Sales

Company Name: _____

WHITESTAR MACHINERY

Date: _____

12-2-21

NON-COLLUSION CERTIFICATION

This is my sworn statement to certify that this proposal was not made in the interest of or on behalf of any undisclosed entity. This proposal is not collusive.

This proposer has not been a party to any agreement or collusion in restraint of freedom of competition by agreement to bid a fixed price, to refrain from bidding, or otherwise. This proposer has not, directly or indirectly, by agreement, communication or conference with anyone, attempted to induce action prejudicial to the interest of Topeka Metropolitan Transit Authority, or of any proposer, or anyone else interested in the proposed contract.

Signature: AKJ

Name and Title: DREW JUDD / SALES

Company Name: WHITESTAR MACHINERY

Date: 12-7-21

SUSPENSION / DEBARMENT CERTIFICATION

In regard to 2 CFR Parts 180 and 1200

In accordance with 2 CFR Parts 180 and 1200, the contractor is required to verify that none of its principals or affiliates:

- 1) is included on the federal government's suspended and debarred list;
- 2) is proposed for debarment, declared ineligible, voluntarily excluded or disqualified;
- 3) within three years preceding this proposal, has been convicted of or had a civil judgment rendered against them for (a) commission of fraud or criminal offense pertaining to performing a public transaction, (b) violation of any federal or state antitrust statute, or (c) embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
- 4) is indicted or charged by a governmental entity for any of the charges in 3) above; and
- 5) has had any public transaction terminated for cause or default within three years preceding this proposal.

The contractor is required to include this requirement in any subcontracts related to this contract.

By signing and submitting its proposal, the proposer certifies that the certification in this clause is a material representation of fact relied upon by Metro. If it is later determined that the proposer knowingly rendered an erroneous certification, in addition to remedies available to Metro, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The proposer agrees to verify that none of its principals or affiliates is included on the federal government's suspended and debarred list at any time throughout the period of this contract. The proposer further agrees to include a provision requiring the same compliance in its subcontracts related to this contract.

Signature: _____

AKJA

Name and Title: _____

DREW JUDD / SALES

Company Name: _____

WHITESTAR MACHINERY

Date: _____

12-7-21



Bobcat

Product Quotation

Quotation Number: AMS-03776

Date: 2021-12-07 09:37:44

| Customer Name/Address: | Bobcat Delivering Dealer | ORDERS TO BE PLACED WITH: Contract Holder/Manufacturer |
|---|---|--|
| TOPEKA METRO Attn: RICHARD APPLEHANZ 201 N KANSAS AVE TOPEKA, KS 66603 | White Star Machinery, Topeka, KS 835 NE HWY 24 TOPEKA KS 66608 Phone: (785) 232-7731 Fax: (785) 235-8951 | Clark Equipment Company dba Bobcat Company 250 E Beaton Dr West Fargo, ND 58078 Phone: 701-241-8719 Fax: 855-608-0681 Contact: Heather Messmer Heather.Messmer@doosan.com |

| Description | Part No | Qty | Price Ea. | Total |
|---|---|-----|-------------|--------------------|
| S76 T4 Bobcat Skid Steer Loader 74.0 HP Tier 4 V2 Bobcat Engine Auxiliary Hydraulics: Variable Flow Backup Alarm Bob-Tach Bobcat Interlock Control System (BICS) Controls: Bobcat Standard Cylinder Cushioning - Lift, Tilt Engine/Hydraulic Performance De-rate Protection Glow Plugs (Automatically Activated) Horn Instrumentation: Standard 5" Display (Rear Camera Ready) with Keyless Start, Engine Temperature and Fuel Gauges, Hour meter, RPM and Warning Indicators. Includes maintenance interval notification, fault display, job codes, quick start, auto idle, and security lockouts. Lift Arm Support | M0369 | 1 | \$39,002.60 | \$39,002.60 |
| | Lift Path: Vertical Lights, Front and Rear LED Operator Cab <ul style="list-style-type: none"> Includes: Vinyl Adjustable Vinyl Suspension Seat, Top and Rear Windows, Parking Brake, Seat Bar and Seat Belt Roll Over Protective Structure (ROPS) meets SAE-J1040 and ISO 3471 Falling Object Protective Structure (FOPS) meets SAE-J1043 and ISO 3449, Level I; (Level II is available through Bobcat Parts) Vinyl suspension seat with 2-point seat belt Parking Brake: Wedge Brake System Tires: 12-16.5, 12PR, Bobcat Heavy Duty Warranty: 2 years, or 2000 hours whichever occurs first | | | |
| P22 Performance Package Power Bob-Tach | M0369-P06-P22 | 1 | \$1,844.50 | \$1,844.50 |
| | 2-Speed | | | |
| C68 Comfort Package "Enclosed Cab with HVAC Sound Reduction Touch Display with Radio & Bluetooth | M0369-P07-C68 | 1 | \$5,440.40 | \$5,440.40 |
| | Heated Cloth Air Ride Suspension Seat Premium LED Lights Rear View Camera" | | | |
| Selectable Joystick Controls | M0369-R01-C04 | 1 | \$603.40 | \$603.40 |
| 80" Heavy Duty Bucket | 7272681 | 1 | \$1,174.20 | \$1,174.20 |
| --- Bolt-On Cutting Edge, 80" | 6718008 | 1 | \$308.20 | \$308.20 |
| Material and Logistics Surcharge | 9988228 | 1 | \$3,537.19 | \$3,537.19 |
| Total of Items Quoted | | | | \$51,910.49 |
| Dealer P.D.I. | | | | \$200.00 |
| Freight Charges | | | | \$1,162.00 |
| Dealer Assembly Charges | | | | \$70.00 |
| Quote Total - US dollars | | | | \$53,342.49 |

***Prices per the Kansas NASPO Construction - SW192**

***Terms Net 60 Days. Credit cards accepted.**

***FOB Origin – Prepay and Add to Quote**

***State Sales Taxes apply. IF Tax Exempt, please include Tax Exempt Certificate with order.**

***TID# 38-0425350**

***Orders Must Be Placed with Clark Equipment Company dba Bobcat Company, Govt Sales, 250 E Beaton Drive, West Fargo, ND 58078.**

***Quote valid for 30 days**

ORDER ACCEPTED BY:

SIGNATURE

DATE

PRINT NAME AND TITLE

PURCHASE ORDER NUMBER

DELIVERY ADDRESS: _____

BILLING ADDRESS (if different than Ship To): _____

TAX EXEMPT? _____YES _____NO

Exempt in the State of _____

Tax Exempt ID:

FEDERAL - _____

STATE - _____

Expiration Date: _____

SKID-STEER LOADER

Vertical Lift Arm Path

2900 lbs.

RATED OPERATING CAPACITY

EFFECTIVE NOVEMBER 11, 2020

For the most up-to-date Bid Specs go to BobcatNET >>Skid-Steer Loaders>>S76>Bid Specs

These bid specifications are to be used as guidelines when assisting purchasing agents and governmental specification writers in writing specifications for loaders. It is not the intent of these specifications to cover all details of design or construction. The unit shall be fully equipped to perform the work intended and shall be a new, current production model.

For individual assistance in preparing detailed specifications, contact the Product Management Group in West Fargo, ND office at 701-241-8700.

*SPECIFICATION(S) ARE BASED ON ENGINEERING CALCULATIONS AND ARE NOT ACTUAL MEASUREMENTS. SPECIFICATION(S) ARE PROVIDED FOR COMPARISON PURPOSES ONLY AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFICATION(S) FOR YOUR INDIVIDUAL BOBCAT EQUIPMENT WILL VARY BASED ON NORMAL VARIATIONS IN DESIGN, MANUFACTURING, OPERATING CONDITIONS, AND OTHER FACTORS.

DIMENSIONAL SPECIFICATIONS

| | |
|--|------------------|
| Angle of Departure | 27° |
| Dump Angle @ Maximum Height..... | 37° |
| Dump Height with Standard Bucket | 99.5" (2527 mm) |
| Reach @ Maximum Height..... | 37.4" (953 mm) |
| Ground Clearance | 8.8" (224 mm) |
| Height to Hinge Pin..... | 128.3" (3259 mm) |
| Cab Height | 82.1" (2085 mm) |
| Length without Attachment | 113.9" (2893 mm) |
| Length with Standard Bucket..... | 147.1" (3736 mm) |
| Overall Operating Height | 167.8" (4261 mm) |
| Carry Position | 9.0" (229 mm) |
| Rollback Angle @ Carry Position | 31° |
| Turning Radius with Standard Bucket..... | 87.7" (2228 mm) |
| Wheelbase | 48.3" (1227 mm) |
| Overall Width with 12-16.5, 12 PR, Heavy Duty Tires | 72.0" (1829 mm) |
| Bucket Width | 74.0" (1880 mm) |
| Overall Width with 12-16.5, 12 PR, Heavy Duty Tires Offset Rims | 68.5" (1740 mm) |
| Bucket Width | 74.0" (1727 mm) |
| Overall Width with 12-16.5, 12 PR, Severe Duty Tires..... | 71.5" (1816 mm) |
| Bucket Width | 74.0" (1880 mm) |
| Overall Width with 12-16.5, 12 PR, Severe Duty-Poly Fill Tires | 71.5" (1816 mm) |
| Bucket Width | 74.0" (1880 mm) |
| Overall Width with 33 x 15.5-16.5, 12 PR, Super Float Tires-Offset Rims..... | 74.0" (1880 mm) |
| Bucket Width | 74.0" (1880 mm) |

PERFORMANCE

| | |
|---|-----------------------|
| *Rated Operating Capacity | 2900 lbs. (1315 kg) |
| *Rated Operating Capacity with Counterweight Option | |
| With 200 lb. Weight Kit | 3050 lbs. (1383 kg) |
| With 300 lb. Weight Kit | 3100 lbs. (1406 kg) |
| *Tipping Load | 5800 lbs. (2630 kg) |
| Operating Weight (ISO 6016) | 8615 lbs. (3908 kg) |
| Travel Speed | 6.8 mph (10.9 km/hr) |
| Travel Speed-Two Speed Option | |
| Low Range..... | 6.8 mph (11.0 km/hr) |
| High Range..... | 11.8 mph (19.0 km/hr) |
| Lift Breakout Force | 6685 lbs. (3032 kg) |
| Tilt Breakout Force | 5851 lbs. (2654 kg) |
| **Push Force | 7323 lbs. (3322 kg) |
| ***Enclosed Cab Operator Noise Level | 76 dB |
| ***Enclosed Cab Bystander Noise Level | 102 dB |

*Rated Operating Capacity (ROC) @ 50% of Tipping Load complies with ISO 14397-1 and SAE J818 for wheel loaders

**Theoretical – calculated using a coefficient of friction of 0.85 (0.85 x Operating Weight)

***Sound values tested per ISO 6395 (Bystander) and ISO 6396 (Operator). Enclosed Cab values are based on comfort package selection, not a la carte enclosed cab.

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 146.5 in.³ (2.40 L)
- 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 option. 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 shall be a certified USDA Spark Arrestor.
 - Cold weather assist shall be automatically activated based on coolant temperature.
 - Air cleaner shall be a dual element type with dry element primary and safety filter.
- 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 engine 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 is rated as 2-micron C at 98.7% efficiency but meets or exceeds 4-micron C rating at 99.6% efficiency.
- Loader shall be equipped with a dual path cooling system which brings fresh air from behind 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; 3.62 hp (2.7 kW), gear type.
- Engine accessory belt shall not require any adjustments.
- Engine de-rating 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 as optional equipment to provide easier starting during cold weather operation.

DRIVE SYSTEM

- Shall have a fully hydrostatic four-wheel drive.
- Transmission shall be infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic drive motors.
- Hydrostatic piston pumps shall be driven direct from the engine.
- Final drive chains shall be pre-stressed #120 HSOC endless roller chain (no master link).
- Two chains per each side of the loader with no idler sprocket.
 - Chains shall not require adjustments.
 - Axle tubes (housings) shall be welded, not bolted, to transmission to prevent chain slack.
 - All chains shall be enclosed in dual housings mounted in the sides of the mainframe.
- Final drive chains and sprockets shall be sealed in a chaincase with oil lubrication.
- Shall have a minimum weight distribution of 71% on the rear axles to provide efficient operation.
- Axle seals shall be protected by the wheel hub and shall never require greasing.
- Final drive axles shall be a minimum of 2.7" (68.6mm) in diameter.
- Parking brake shall be a positive engagement wedge and lobe for standard single speed and optional Two-Speed.
- Wheels shall be fixed to the axle hubs with eight (8) 9/16" wheel bolts.
- Tires: 12-16.5, 12 PR, Heavy Duty Tires
 12-16.5, 12 PR, Heavy Duty Tires Offset Rims

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 23.3 gpm (88.1 L/min) for bucket, lift arm and attachment operation.
- Hydraulic pump capacity for high flow shall be capable of providing 30.3 gpm (114.7 L/min) for high flow hydraulic attachment operation.
- System pressure at the quick couplers shall be 3500 psi (24.1 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 de-rating 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 an element 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 be available as an option.
 - Shall include on/off button inside operator cab.
- Automatic Ride control shall be available as an option.
 - Shall be automatically activated and deactivated based on the lift cylinder hydraulic pressure
 - Shall include on/off button 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 ends of the cylinders.
- Cylinders shall meet the following minimum specifications:

| <u>Function</u> | <u># of Cylinders</u> | <u>Bore Diameter</u> | <u>Rod Diameter</u> | <u>Stroke</u> |
|-----------------|-----------------------|----------------------|---------------------|-------------------|
| Lift | 2 | 3.00" (76.2 mm) | 1.97" (50.0 mm) | 28.53" (724.7 mm) |
| Tilt | 2 | 3.00" (76.2 mm) | 1.50" (38.1 mm) | 13.56" (344.4 mm) |

OPERATOR CONTROLS

- Loader direction, steering, and travel speed.
 - Standard - Shall be controlled by two independent steering levers.
 - Optional - Shall be controlled by SJC system.
- Loader lift and tilt functions.
 - Standard- Shall be controlled by separate adjustable foot pedals.
 - Optional- Shall be controlled by SJC system.
- 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 tire inflation pressure 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.
 - Auto Idle shall be standard 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 using the instrumentation display.
 - 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 equipped loaders to adjust the lift and tilt control sensitivity.
- An optional Radio Remote Control kit shall be available for SJC equipped loaders. The kit shall allow the operator to safely start the loader engine and operate the drive, lift, tilt and auxiliary hydraulic functions of the loader using a Radio Remote Control Transmitter.
- 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 button on right hand cab post.
- Engine starting and shutdown functions shall be controlled electrically with a button or optional key switch start.

OPERATOR COMFORT

- An enclosed cab shall be available as an option.
- Air conditioning shall be available as an option without changing loader profile.
 - Shall have the capability to be used in colder temperatures to aid in defrosting.
- Cab heat shall be available as an option without changing loader profile.
 - Heater system shall have a minimum BTU output of 36,800 BTU.
- Front door shall be a one-piece curved design that opens to the side opposite of the auxiliary quick couplers.
 - Cab door shall have a sensor that deactivates the lift and tilt valves when the door is open.
- Enclosed cab shall be pressurized to 0.1 inches of water
- HEPA filter shall be available as an option.
- A suspension seat shall be available as standard equipment.
- An adjustable seat shall be available as standard equipment.
- An air ride seat shall be available as an option.
- Arm rest shall be standard equipment.
- Cup holder shall be standard equipment.
- Engine throttle shall be located 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 kits shall be available as an option.
- Top and rear windows shall be available as standard equipment.
- Front and rear window wipers shall be available as an option.
- Intermittent front wiper shall be available as an option.
- Special application polycarbonate doors and windows shall be available as an option.
- A $\frac{3}{4}$ " polycarbonate front door shall be available as an option for land clearing applications.
- 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 a minimum output of 2000 lumens.
- Side light kit shall be available as an option.
 - Side light kit shall include 2 LED light bars with a minimum output of 1000 lumens per side.
- Side windows shall be mounted on the outside of the cab with the ability to be locked in open and/or closed positions.
- Side, rear and front window defrost shall be provided in the heat or air-conditioned options.
- Loader controls and buttons shall be mounted in front of the operator, not to the side.
- An FM/AM Radio shall be available as an option.
 - Radio shall be located in front of the operator.
- 12-volt power ports shall be available as an option.
- 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 31.7 gal. (120 L).
- Cooling System without heater shall have a minimum capacity of 2.8 gal. (10.6 L).
- Cooling System with heater shall have a minimum capacity of 3.0 gal. (11.3 L).
- Hydraulic & Hydrostatic Reservoir shall have a minimum capacity of 5.0 gal. (18.9 L).
- Hydraulic & Hydrostatic System shall have a minimum capacity of 13.5 gal. (51.1 L).

STANDARD INSTRUMENTATION WITH 5" DISPLAY

- 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.

| <u>Features</u> | <u>Warning Lights</u> | <u>Indicators</u> | <u>Data Display System</u> |
|--|-------------------------|-------------------------------|----------------------------|
| - English/Metric Settings | - Engine Coolant Temp | - 3-Point Shoulder Belt | - Battery Voltage |
| - Keyless Start | - Engine Malfunction | - Coolant Temp | - Drive Response Setting |
| - Maintenance Notification | - Fuel Level | - Engine RPM | - Engine Coolant Temp |
| - Password Lockout | - General Warning | - Hydraulic Oil Temp | - Engine Preheat |
| - Service Codes with Basic Description | - Hydraulic Malfunction | - Hydrostatic Charge Pressure | - Engine RPM |
| | | - Lift & Tilt Valve | - Fuel Level |
| | | - Oil Pressure | - Hourmeter |
| | | - Parking Brake | - Maintenance Clock |
| | | - Seat Bar | - Rearview Camera Ready |
| | | - Seat Belt | - Service Codes |
| | | - System Voltage | - Speed Management |
| | | - Turn Signals | - Steering Drift |
| | | | - Two Speed |

STANDARD INSTRUMENTATION WITH OPTIONAL 7" TOUCH DISPLAY

- The following features of the 7" Touch Display are in addition to the 5" Display:

Additional Displays for:

- Multi-Language Display
- Attachment Control
- High Flow Lockout
- Two-Speed Lockout

Additional Features:

- Bluetooth Connectivity
- Decelerator Setup
- Diagnostic Capability
- Digital Clock
- Hands Free Communication
- Help Screens
- Integrated AM/FM Weather Band Radio
- Job Clock
- Rearview Camera Ready
- Security Code Time Out Settings
- Service Codes with Extended Descriptions
- USB Charge Port

ATTACHMENTS

- 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.
- The quick-change mechanism shall incorporate two handles that drive spring loaded, wear compensating wedges into the attachment ensuring a tight attachment fit-up.
- A power quick-change mechanism shall be driven by hydraulics and be available as an option.
- The power quick change mechanism shall be activated by a simple push button to raise and a second push button to lower attachment levers.
- 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.
- Standard flow hydraulics shall be equipped as standard equipment.
- High flow hydraulics shall be available as optional equipment.
- No attachments will require more than three hydraulic hoses and one electrical line for operation.

SERVICEABILITY

- Engine shall be mounted inline 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
 - Air conditioning compressor
 - Alternator
 - Cooling system (engine coolant and hydraulic oil coolers) for cleaning
 - Engine oil and fuel filters
 - Engine oil dipstick
 - Starter
- Easy access to engine oil drain shall be provided via access plate below engine.
- Axle hubs shall provide protection for the axle seals.
- Easy access shall be provided 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.
- Tailgate shall have an optional lock for vandal proofing.
- Tailgate shall be equipped with doorstop to hold door open while servicing.
- A rear bumper shall extend beyond the tailgate to protect the tailgate from damage.
- Tip-up operator cab shall tilt backwards and give access to certain hydraulic system components when the lift arm is in the lowered position.

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 35.1" (892 mm).
- A seat belt and button operated parking brake shall be furnished as standard equipment.
- A 3-point seat belt shall be available as standard equipment on loaders equipped with Two-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 to 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.
- Loader shall be equipped with a lift arm by-pass valve. 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 $\frac{1}{4}$ 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.
- Strobe lights or rotating beacons shall be available as an option.
- 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 single- or four-point lift kits available as an option for lifting the loader without affecting rollover and falling object protection features of the operator cab.

TRAINING RESOURCES

- A comprehensive Online Skid-Steer Loader Operator Training Course (English & Spanish).
- A comprehensive Compact Skid-Steer Loader Operator Training Course 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 Course Kit shall be available. The kit shall include a video, classroom and hands-on training.