



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**DNR210174**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**FRANK WHITTAKER**  
**304-558-2316**

RFQ COPY



## Bobcat

of Advantage Valley

DIVISION OF JEFFERDS CORPORATION

**SALES • SERVICE • RENTAL**

Cross Lanes, WV 25313

304-776-9100 • 1-866-426-2228

DIVISION OF NATURAL RESOURCES  
 STONEWALL JACKSON STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 149 STATE PARK TRAIL  
 ROANOKE, WV 26447  
**304-269-0523**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/18/2010	Net 10	Our Truck	Delivered	NONE

BID OPENING DATE: **04/14/2010** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		765-85 7320 w/ Forestry Cutter	66,680. <sup>00</sup>	66,680. <sup>00</sup>
<p>TRACTORS, CRAWLER TYPE</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING BIDS FOR A FORESTRY GRADE COMPACT TRACK LOADER WITH THE ROTARY MULCHER ATTACHMENT PER THE ATTACHED SPECIFICATIONS.</p> <p>ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR TECHNICAL QUESTIONS IS 03/30/2010 AT 3:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION          PURCHASING DIVISION          BUILDING 15          2019 WASHINGTON STREET, EAST          CHARLESTON, WV 25305-0130</p>						

RECEIVED  
 10 APR 14 P 12:54  
 PURCHASING DIVISION  
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: 304-776-9100 DATE: 4-12-10

TITLE: Sales Specialist FEIN: 56-0336065 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.htm](http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

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**DNR210174**

PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**FRANK WHITTAKER**  
**304-558-2316**

RFQ COPY



## Bobcat.

of Advantage Valley

DIVISION OF JEFFERDS CORPORATION

**SALES • SERVICE • RENTAL**

Cross Lanes, WV 25313

304-776-9100 • 1-866-426-2228

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DIVISION OF NATURAL RESOURCES  
 STONEWALL JACKSON STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 149 STATE PARK TRAIL  
 ROANOKE, WV  
 26447 304-269-0523

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/18/2010				

BID OPENING DATE: **04/14/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>RFQ. NO.: DNR210174</p> <p>BID OPENING DATE: 04/14/10</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:  <u>304-776-0255</u></p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):  <u>Steve Lewis</u></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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**DNR210174**  
**Stonewall Jackson Wildlife Management Area**  
**Purchase of Compact Track Loader with Rotary Mulcher Attachment**

The West Virginia Purchasing Division for the West Virginia Division of Natural Resources is requesting bids for the purchase of one (1) Forestry Grade Compact Track Loader with Rotary Mulcher Attachment. All items are to be F.O.B. Destination. Freight or delivery charges must be included in the price of the goods. Delivery must be made within thirty (30) days of purchase order award.

**General Specifications:**

The Forestry Grade Compact Track Loader with Rotary Mulcher Attachment must be manufactured for commercial use. All items must be new.

**Information for Bidders:**

Bidders must submit a unit price bid for each item to furnish all items specified.

**Damaged Items:**

Damaged or defective items must be replaced at no additional expense to The West Virginia Division of Natural Resources.

**Warranty:**

The equipment must be guaranteed to be free of defects in workmanship and material for a minimum of one (1) year from date of acceptance. However, if manufacturer warranty periods are longer than the required minimum one year warranty, those warranties shall apply.

**Forestry Grade Compact Track Loader with Rotary Mulcher Attachment**

ASV Model PT-100 Forestry Loader & ASV Model HD7460B Rotary Mulcher Attachment or equal. Forestry loader/rotary mulcher must meet the following specifications:

- 
- Must have a diesel engine with a minimum horsepower of 99 HP and a minimum peak torque of 300 ft-lb;
  - Must have general purpose tracks with minimum track width of 17 inches with a minimum ground contact area of 2,500 square inches;
  - Must have a hydrostatic powertrain;
  - Must have a heavy duty independent suspension of undercarriage;



DNR210174

Stonewall Jackson Wildlife Management Area  
Purchase of Compact Track Loader with Rotary Mulcher Attachment

- Must have pilot joystick controls;
- Must have a suspension seat with lap and shoulder belts and seat belt;
- Must have auxiliary hydraulic (quick connect fittings) with low flow maximum of 20 gpm and high flow maximum of 40 gpm;
- Must have an engine block heater;
- Must be ROPS/FOPS/OPS (certified);
- Must have indicators warning lights for engine oil pressure, hot hydraulic oil and low battery; voltage and a tachometer gauge, engine temperature gauge, and a fuel level gauge;
- Must have front and rear emergency exits and a heavy duty polycarbonate door and wiper;
- Must have light, hood, window, and condenser guards and skid plates;
- Must have a climate control system with high output with a/c, heat and service access;
- Must not exceed 13,000 lbs. (total weight) for entire package (track loader and mulcher attachment); and
- Must have a heavy duty rotary drum (quick attach) mulcher attachment which has a minimum cutting width of 60 inches and maximum outside width of 75 inches.

**Forestry Loader/Mulcher to be delivered to the following location:**

*Stonewall Jackson Wildlife Management Area*

*Lewis County*

*114 Old Georgetown Road, Roanoke, WV*

*Contact: Gary Foster (304-637-0245) for delivery information*

---

**Forestry Mulcher  
Manufacturer's List**

Please complete the below information concerning the brand(s) of equipment being bid in relation to this project. If bidding "or equal" brands, please attach manufacturer's literature documenting that it meets the mandatory requirements stated in the specifications. Vendors should note the areas of the provided manufacturer's literature that adheres to the mandatory requirements outlined in the Request for Quotation.

ITEM NO.	EQUIPMENT	MANUFACTURER	MODEL
1	ASV Model PT-100 Forestry Loader & ASV Model HD7460B Rotary Mulcher Attachment or Equal	<i>Bobcat Bobcat</i>	<i>T320 60" Forestry Cutter</i>

FORESTRY MULCHER  
PRICING SHEET

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	1	ASV Model PT-100 Forestry Loader & ASV Model HD7460B Rotary Mulcher Attachment or Equal	66,680 <sup>152</sup>	66,680 <sup>152</sup>
			TOTAL COST	



State of West Virginia  
 Department of Administration  
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PURCHASING



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**SALES • SERVICE • RENTAL**

Cross Lanes, WV 25313

304-776-9100 • 1-866-426-2228

SHIPPING

DIVISION OF NATURAL RESOURCES  
 STONEWALL JACKSON WILDLIFE  
 MANAGEMENT AREA  
 114 OLD GEORGETOWN ROAD  
 ROANOKE, WV  
 26447                      304-637-0245

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/25/2010				

BID OPENING DATE: **04/14/2010**                      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
THIS ADDENDUM IS ISSUED TO CHANGE THE SHIP TO ADDRESS.						
THE SHIP TO ADDRESS IS CHANGED TO:						
STONEWALL JACKSON WILDLIFE MANAGEMENT AREA 114 OLD GEORGETOWN ROAD ROANOKE, WV 26447						
0001	1	EA		765-85		
TRACTORS, CRAWLER TYPE						
***** THIS IS THE END OF RFQ DNR210174 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE <b>4-14-10</b>
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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DIVISION OF  
**JEFFERDS CORPORATION**  
 406 Goff Mountain Road  
 P O Box 7555  
 Cross Lanes, WV 25356-0555  
 Phone (304) 776-9100 / Fax (304) 776-0285  
 www.jefferds.com

## Product Quotation

Quotation Number: 2532E03189

Date: 2010-04-14 08:53:14

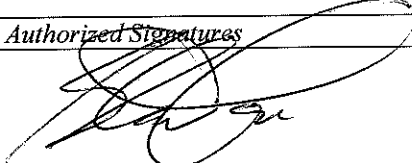
Customer	Bobcat Specialist
Division of Natural Resources Attn: Frank Whittaker 2019 Washington Street East Charleston, WV 25305 Phone: (304) 558-2316	Steve Lewis Phone: (304) 776-9100 Fax: (304) 776-0285 Cellular: (304) 561-8280 E Mail: stevelewis@jefferds.com

Description	Part No	Qty	Price Ea.	Total
T320 Bobcat Compact Track Loader	M0039	1	\$40,085.00	\$40,085.00
Factory Installed A51 Option Package	M0039-P01-A51	1	\$2,224.00	\$2,224.00
Cab Enclosure with Heat and AC	Power Bobtach			
High Flow Hydraulics, Hydraulic Bucket Positioning	M0039-P01-F40	1	\$1,350.00	\$1,350.00
Selectable Joystick Controls (SJC)	M0039-R01-C04	1	\$1,533.00	\$1,533.00
Roller Suspension Carriage	M0039-R21-C02	1	\$1,018.00	\$1,018.00
Attachment Control Kit - 7 Pin	M0039-A01-C01	1	\$102.00	\$102.00
Attachments Forestry Cutter, 60"	7136624	1	\$16,427.00	\$16,427.00
--- Forestry Applications Kit	7131810	1	\$3,941.00	\$3,941.00

Total of Items Quoted **\$66,680.00**  
 Quote Total - US dollars **\$66,680.00**

**Notes:**

All prices subject to change without prior notice or obligation. This price quote supercedes all preceding price quotes. Customer must exercise purchase option within 30 days from quote date.

Authorized Signatures	
 4-14-10	
Bobcat of Advantage Valley, Cross Lanes, WV	Bobcat of Advantage Valley, Cross Lanes, WV
Date	Date

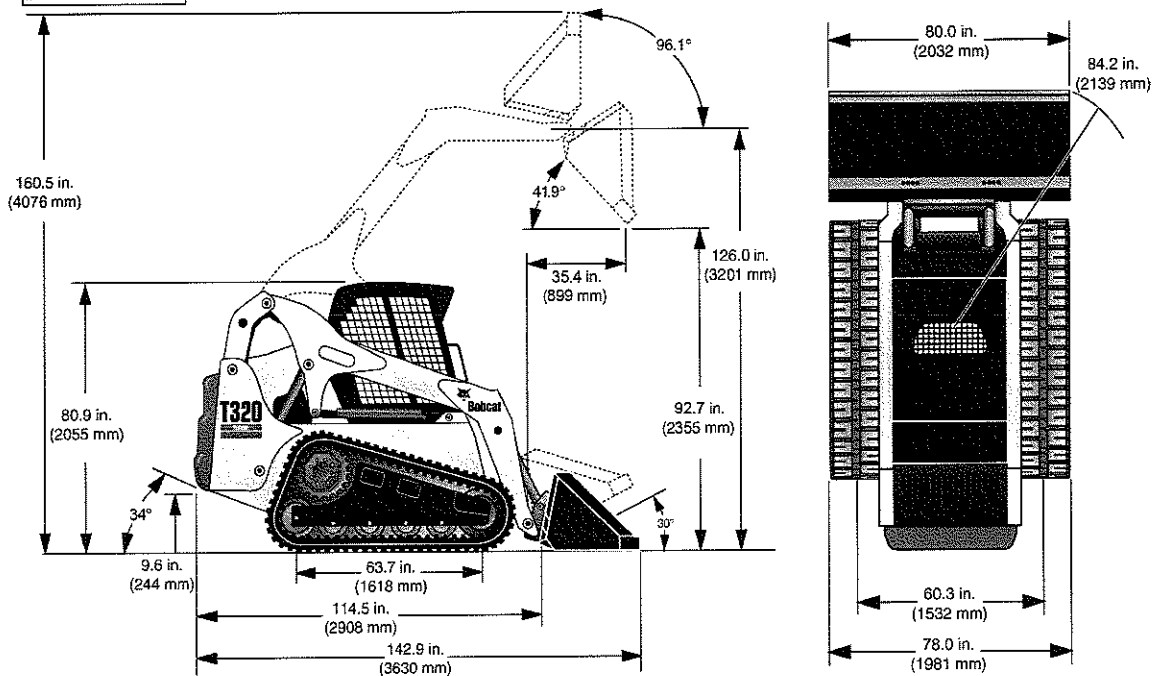
# Exceptions to Specifications

**Minimum horsepower and torque** – Specifications are for minimum 99hp and torque was 300 ft-lb. Bobcat uses a 92 hp diesel engine with 232 ft-lb or torque. The measurement of horsepower and torque varies from mfg to mfg. Unless the horsepower was measured under the same circumstances, the comparison may not be valid. The Bobcat loader drive system was designed to operate and function properly with the engine and hydraulic package. Our attachments are built by Bobcat and designed to operate in the power range of the loader.

**Hydraulic Flow** – The specified hydraulic flow is a maximum of 20gpm on low flow and a maximum of 40 gpm on high flow. Our unit has a maximum of 21.2 gpm on low flow and a maximum of 37gpm on high flow. This is simply a design difference of the manufacturer and is not a measure of performance of the loader or attachment.

# T320 COMPACT TRACK LOADER SPECIFICATIONS

## DIMENSIONS



A) Operating Height .....	160.5" (4076 mm)	N) Width (over bucket)	
B) Height with Operator Cab .....	80.9" (2055 mm)	74 in. Bucket .....	74.0" (1880 mm)
C) Angle of Departure .....	34°	80 in. Bucket .....	80.0" (2032 mm)
D) Ground Clearance .....	8.7" (221 mm)	O) Turning Radius	
E) Ground Contact Length .....	63.7" (1618 mm)	with Standard Bucket .....	84.2" (2139 mm)
F) Length without Attachment .....	114.5" (2908 mm)	Rear Clearance of Machine .....	68.2" (1732 mm)
G) Length with Standard Bucket .....	142.9" (3630 mm)	P) Track Tread	
H) Rollback @ Ground .....	30°	12.6 in. Tracks .....	60.3" (1532 mm)
I) Dump Height with Standard Bucket .....	98.7" (2507 mm)	18 in. Tracks .....	60.3" (1532 mm)
J) Dump Reach @ Maximum Height .....	36.5" (927 mm)	Q) Track (width over track)	
K) Height to Bucket Hinge Pin .....	126.0" (3201 mm)	12.6 in. Tracks .....	73.0" (1851 mm)
L) Dump Angle @ Maximum Height .....	41.9°	18 in. Tracks .....	78.0" (1981 mm)
M) Rollback Fully Raised			
@ Maximum Height .....	96.1°		
Carry Position .....	9.3" (236 mm)		

## PERFORMANCE

Rated Operating Capacity (ISO 14397 - no more than 35% of Tipping Load) .....	3200 lbs. (1452 kg)
Rated Operating Capacity (35% of Tipping Load) - Roller Suspension .....	2800 lbs. (1270 kg)
*Rated operating capacity (ROC) @ 35% of Tipping Load complies with ISO 14397-1 and SAE J 818 for crawler loaders.	
Operating Capacity (ISO 14397 - no more than 50% of Tipping Load) .....	4604 lbs. (2089 kg)
Operating Capacity (50% of Tipping Load) - Roller Suspension .....	4046 lbs. (1835 kg)
Tipping Load (ISO 14397-1) .....	9208 lbs. (4177 kg)
Tipping Load - Roller Suspension .....	8092 lbs. (3670 kg)
Operating Weight (SAE) .....	9702 lbs. (4401 kg)
Operating Weight - Roller Suspension .....	10308 lbs. (4676 kg)
Travel Speed .....	6.6 mph (10.6 km/hr)
Lift Breakout Force (SAE) .....	6700 lbs. (3039 kg)
Lift Breakout Force - Roller Suspension .....	6500 lbs. (2948 kg)
Tilt Breakout Force (SAE) .....	6300 lbs. (2858 kg)
Tilt Breakout Force - Roller Suspension .....	6100 lbs. (2767 kg)
Push Force .....	6200 lbs. (2812 kg)
Push Force - Roller Suspension .....	7500 lbs. (3402 kg)



**ENGINE/ELECTRICAL**

Make/Model .....	Kubota V3800-DI-T
Fuel/Cooling .....	Diesel/Liquid
Horsepower (SAE Gross) .....	92 HP (68,6 kW) @ 2400 RPM
Horsepower (SAE Net) .....	90.6 HP (67,6 kW) @ 2400 RPM
Maximum Governed RPM .....	2650 RPM
Torque, Maximum .....	232.3 LBF-FT (315 Nm) @ 1600 RPM
Number of Cylinders .....	4
Displacement .....	230 cu. in. (3769 cm <sup>3</sup> )
Bore/Stroke .....	3.94/4.72 in. (100/120 mm)
Fuel Consumption .....	3.8 gal/hr (14,4 L/hr)
	Estimated fuel consumption is based on testing by Bobcat Company in high duty cycle digging applications.
Lubrication .....	Pressure System with Filter
Crankcase Ventilation .....	Open Breathing
Air Cleaner .....	Dry replaceable paper cartridge with safety element
Ignition .....	Diesel-Compression
Engine Coolant .....	Propylene Glycol
Starting Aid .....	Intake Air Heater
Alternator .....	Belt driven; 90 amps; Open
Battery .....	12 volt; 950 cold cranking amps @ 0°F(-18°C); 180 minute reserve capacity
Starter .....	12 volt; gear reduction type; 4.02 HP (3,0 kW)

**HYDRAULIC SYSTEM**

Pump Type .....	Engine driven, gear type
Pump Capacity	
Standard .....	21.2 GPM (80,2 L/min) @ high idle
High Flow Option .....	37 GPM (140,1 L/min) @ high idle
System Relief @ Quick Couplers .....	3300 PSI (227,5 Bar)
Hydraulic Filter .....	Full flow replaceable, 3 micron synthetic media element
Hydraulic Cylinders .....	Double-acting; tilt cylinders have cushioning feature on dump and rollback
Control Valve .....	3-Spool, open center type with float detent on lift and electrically controlled auxiliary spool
Fluid Type .....	Bobcat Hydraulic/Hydrostatic Fluid (P/N 6563328) Motor oil is not an acceptable alternative fluid

*Bore Diameter*

Lift Cylinder (2) .....	3.00 in. (76,2 mm)
Tilt Cylinder (2) .....	3.00 in. (76,2 mm)

*Rod Diameter*

Lift Cylinder (2) .....	1.62 in. (41,2 mm)
Tilt Cylinder (2) .....	1.50 in. (38,1 mm)

*Stroke*

Lift Cylinder (2) .....	25.0 in. (636 mm)
Tilt Cylinder (2) .....	15.1 in. (384 mm)

*Hydraulic Function Times*

Raise Lift Arms .....	4.3 Seconds	Bucket Dump .....	2.7 Seconds
Lower Lift Arms .....	3.0 Seconds	Bucket Rollback .....	2.1 Seconds

**DRIVE SYSTEM**

Main Drive ..... Fully hydrostatic, rubber track drive  
Transmission ..... Infinitely variable tandem hydrostatic piston pumps,  
driving two fully reversing hydrostatic motors  
Tracks ..... 18 in. width (450 mm) or optional 12.6 in. tracks (320 mm)  
tension-grease cylinder and spring rollers–triple flange

**GROUND PRESSURE**

18 in. Track width ..... 4.2 psi (28,9 kPa)  
18 in. Track width  
- Roller Suspension ..... 4.2 psi (28,9 kPa)  
12.6 in. Track width option ..... 5.8 psi (40,0 kPa)

**CAPACITIES**

Fuel Tank ..... 26 gals. (98,4 L)  
Engine Coolant ..... 3.6 gals. (13,6 L)  
Hydraulic Reservoir ..... 4.7 gals. (17,8 L)  
Hydraulic/Hydrostatic System ..... 13 gals. (49,2 L)  
Engine Lubricating with Oil Filter ..... 12 qts. (11,4 L)

**CONTROLS**

Vehicle Steering ..... Direction and speed controlled by two hand levers  
Loader Hydraulics  
Lift & Tilt ..... Controlled by separate foot pedals or optional Advanced Control System (ACS)  
or optional Selectable Joystick Control (SJC)  
Front Auxiliary (Std.) ..... Controlled by electrical switch on Right Hand steering lever  
Rear Auxiliary (Opt.) ..... Controlled by electrical switch on Left Hand steering lever  
Auxiliary Pressure Release ... Pressure is relieved through the coupler block, push in and hold for five seconds.  
Engine ..... Hand lever throttle; key-type starter switch and shutdown  
Starting Aid ..... Intake Air Heater – automatically activated by Standard or  
Deluxe Instrument Panel  
Service Brake ..... Two independent hydrostatic systems controlled by two hand operated  
steering levers  
Secondary Brake ..... One of the hydrostatic transmissions  
Parking Brake (Std.) ..... Finger-operated rocker switch on center control panel activates spring applied  
pressure release (SAPR) mult disc brake

**SERVICEABILITY**

Access is available to the following through the rear door/tailgate and rear screen:

- Air cleaner
- Alternator
- Battery
- Cooling system (radiator and hydraulic oil cooler) for cleaning
- Engine oil and fuel filters
- Engine oil drain and dipstick
- Starter

Easy access to all lift arm grease points  
Rod end of the tilt cylinders has a replaceable bushing  
Tailgate has an optional lock for vandal proofing  
Tailgate is equipped with door stop to hold door open while servicing  
Tip-up operator cab gives access to certain hydraulic system components

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**INSTRUMENTATION**

The following loader functions are monitored by a combination of gauges and warning lights in the operator's line of sight. The system alerts the operator of monitored loader malfunctions by way of an audible alarm and visual warning lights.

**Standard Instrument Panel**

Gauges

Engine Coolant Temperature  
Fuel  
Hourmeter

Warning Lights

Engine Air Filter  
Engine Coolant Temperature  
Engine Oil Pressure  
Fuel Level  
General Warning  
Hydraulic Filter  
Hydraulic Oil Temperature  
Hydrostatic Charge Pressure  
Seat Belt  
System Voltage

Indicators

Advanced Control System (ACS)  
Attachment Control Device  
BICS Functions  
Intake Air Heater  
Selectable Joystick Control (SJC)

**Deluxe Instrument Panel (Option)**

Same gauges, warning lights and other features as Standard Instrument Panel plus:

Bar-type gauges: ..... Engine Oil Pressure, System Voltage, Hydrostatic Charge Pressure and Hydraulic Oil Temperature  
Additional features: ..... Keyless Start with password capability, Digital Clock, Job Clock, Attachments Information, Digital Tachometer, High Flow Lockouts, Multi-Language Display, Help Screens, Diagnostic Capability and Engine/Hydraulic Systems Shutdown Function

**ATTACHMENTS**

- |                        |                          |                   |                   |
|------------------------|--------------------------|-------------------|-------------------|
| Angle Broom*           | Drop Hammer              | Planer*           | Three-Point Hitch |
| Auger                  | Dumping Hopper           | Rear Stabilizer   | Tiller            |
| Backhoe                | Flail Cutter             | Scarifier         | Tilt-Tatch        |
| Box Blade              | Forestry Cutter          | Seeder            | Trench Compactor  |
| Brush Saw              | Grader*                  | Snow Blade        | Trencher          |
| Brushcat Rotary Cutter | Grapple, Farm/Utility    | Snow V-Blade*     | Utility Forks     |
| Buckets                | Grapple, Industrial      | Snowblower*       | Utility Frame     |
| Bucket Adapter         | Hydraulic Breaker        | Sod Layer         | Vibratory Roller  |
| Chipper*               | Landplane                | Soil Conditioner* | Water Kit         |
| Combination Bucket     | Landscape Rake           | Spreader          | Wheel Saw*        |
| Concrete Mixer*        | Mower                    | Stump Grinder*    | Whisker Broom     |
| Digger                 | Pallet Forks - Standard  | Super Scraper     |                   |
| Dozer Blade*           | Pallet Forks - Hydraulic | Sweeper           |                   |

**See Bobcat Product Price List for specific attachment model availability. \*Requires Attachment Control Kit**

**FACTORY OPTIONS**

Advanced Control System (ACS)  
Selectable Joystick Control (SJC)  
Back-up Alarm and Horn

Engine Block Heater  
High Flow Auxiliary Hydraulics  
Hydraulic Bucket Positioning

**DEALER ACCESSORIES**

Attachment Control Kit  
Back-up Alarm  
Cab Accessory Harness  
Cab Enclosure  
Catalytic Exhaust Purifier  
Fire Extinguisher Kit  
FOPS Kit - Level II\*\*

Four-point Lift Kit  
Four-Way Flasher Light Kit  
Horn  
Hydraulic Bucket Positioning  
Locking Fuel Cap  
Power Bob-Tach  
Radio

Rear Auxiliary Hydraulics  
Ride Control  
Rotating Beacon Light  
Side Windows Kit  
Single-point Lift Kit  
Special Applications Kit  
Strobe Light Kit  
Tailgate Lock Kit

**AC/HEATED CAB PACKAGES****A91 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
High Flow Hydraulics  
Power Bobtach  
Sound Reduction  
Hydraulic Bucket Positioning  
Deluxe Instrumentation Panel  
Engine Block Heater  
Cab Accessory Harness  
Horn  
Backup Alarm  
Attachment Control Kit

**A71 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
Power Bobtach  
Sound Reduction  
Deluxe Instrumentation Panel  
Cab Accessory Harness  
Attachment Control Kit

**A51 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
Power Bobtach  
Cab Accessory Harness

**A31 Option Package**

Cab Enclosure with  
Heat/Air Conditioning  
Cab Accessory Harness

**HEATED CAB PACKAGES****H71 Option Package**

Cab Enclosure with Heat  
Power Bobtach  
Sound Reduction  
Deluxe Instrumentation Panel  
Cab Accessory Harness  
Attachment Control Kit

**H51 Option Package**

Cab Enclosure with Heat  
Power Bobtach  
Cab Accessory Harness

**H31 Option Package**

Cab Enclosure with Heat  
Cab Accessory Harness

**OPEN CAB PACKAGES****O71 Option Package**

Power Bobtach  
Deluxe Instrumentation Panel  
Cab Accessory Harness  
Attachment Control Kit

**O51 Option Package**

Cab Accessory Harness  
Deluxe Instrumentation Panel

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**SAFETY**

Bobcat Interlock Control System (BICS) (Std.) .....	Requires the operator to be seated in the loader with the seatbar in place and the engine running. After the operator presses the "Press to Operate Loader" button, the loader's hydraulic lift and tilt functions and traction drive system can be operated.
Lift Arm Bypass Control (Std.) .....	Used to lower the lift arms in the event that the lift arms cannot be lowered during normal operating conditions.
Seat Belt (Std.) .....	Should always be worn when operating the loader Three-point shoulder belt provides restraint for high range speeds.
Seat Bar (Std.) .....	Secondary operator restraint, also serves as an arm rest
Operator Cab (Std.) .....	An enclosable operator cab with side screens with a minimal inside cab width of 33" (838 mm) as standard equipment. Meets SAE J1040 and ISO 3471 for Roll Over protective Structure (ROPS) and SAE J1043 and ISO 3449 Level I for Falling Objects Protective Structure (FOPS). Level II option is available.

*FOPS Level I – Acceptance is intended for protection from falling bricks, small concrete blocks and hand tools encountered in operations such as highway maintenance, landscaping and other construction site services.*

*FOPS Level II – Acceptance is intended for protection from falling trees or rocks for machines involved in site clearing, overhead demolition or forestry.*

Lift Arm Support (Std.) .....	Use for servicing when lift arms are raised
Parking Brake (Std.) .....	Always set brake when leaving loader
Grab Handles (Std.) .....	Should always be used when entering/exiting loader
Safety Tread (Std.) .....	Slip resistant tread on lift arms and main frame to be used when entering/exiting loader
Attachment Steps (Std.) .....	Should always be used when entering/exiting loader
Rear Window (Std.) .....	For emergency exit
Front & Rear Working Lights (Std.) .....	Use for indoor and low light operation
Alarm Package (Opt.) .....	For use in jobs with low visibility--includes horn and backup alarm
Lift Kits (Opt.) .....	Lift kits are available so loader may be lifted into remote areas
Special Applications Kit (Opt.) .....	Restricts objects and material from entering cab openings
Operator's Handbook (Std.) .....	Weather resistant operator handbook written in English will be attached to inside of cab, providing operational instructions and warnings by decals with pictorials and international symbols plus some messages in four basic languages: English, French, German and Spanish.

**TRAINING RESOURCES**

These optional videotapes and training courses are available through Bobcat Parts

***Bobcat Loader Operator Training Course***

4-hour course provides video, classroom and hands-on training (also available in Spanish)

***Bobcat Loader Service Safety Training Course***

2-hour course provides video, classroom and hands-on training

***Bobcat Loader Safety Video***

Short and to-the-point video provides basic safety instructions for the Skid-Steer Loader

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# **COMPACT TRACK LOADER**

**3200 lbs.  
RATED OPERATING CAPACITY**

**EFFECTIVE SEPTEMBER 10, 2007**

**For the most up-to-date Bid Specs go to BobcatNET >>Compact Track Loaders>>T320>>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 Sales & Marketing Support Department in West Fargo, ND office at 701/241-8705.

## 3200 LBS. RATED OPERATING CAPACITY

### WORKING RANGE

Angle of Departure .....	25°
Carry Position .....	9.7" (246 mm)
Dump Angle @ Maximum Height.....	41.9°
Dump Height with Standard Bucket.....	99.1" (2517 mm)
Dump Reach @ Maximum Height .....	33.8" (859 mm)
Ground Clearance .....	8.7" (221 mm)
Height to Bucket Hinge Pin.....	128.8" (3272 mm)
Height with Operator Cab .....	80.9" (2055 mm)
Length without Attachment .....	114.5" (2908 mm)
Length with Standard Bucket.....	142.9" (3630 mm)
Operating Height .....	160.6" (4079 mm)
Rollback @ Ground .....	30°
Rollback Fully Raised @ Maximum Height .....	96.1°
Turning Radius with 80" Bucket.....	82.4" (2093 mm)
Length of track on ground (Ground Contact/Track Tread) .....	63.7" (1618 mm)
Width (over standard tracks) 17.7" .....	78.0" (1981 mm)
Width (over bucket) .....	80.0" (2032 mm)
Narrow Track Option (12.6").....	72.0" (1829 mm)
Width (over bucket, narrow track option) .....	74.0" (1880 mm)
Ground Pressure .....	17.7" Track width – 4.2 PSI
Ground Pressure (optional) .....	12.6" Track width – 5.8 PSI

### PERFORMANCE

Rated Operating Capacity* (35% of Tipping Load) .....	3200 lbs. (1452 kg)
Rated Operating Capacity – Roller Suspension.....	2800 lbs. (1270 kg)
Operating Capacity (50% of Tipping Load) .....	4604 lbs. (2089 kg)
Operating Capacity – Roller Suspension .....	4046 lbs. (1835 kg)
Tipping Load.....	9208 lbs. (4177 kg)
Tipping Load – Roller Suspension .....	8092 lbs. (3670 kg)
Operating Weight (SAE) .....	9702 lbs. (4401 kg)
Operating Weight – Roller Suspension.....	10308 lbs. (4676 kg)
Travel Speed .....	6.6 mph (10,6 km/hr)
Lift Breakout Force (SAE).....	6700 lbs. (3039 kg)
Lift Breakout Force – Roller Suspension .....	6500 lbs. (2948 kg)
Tilt Breakout Force (SAE).....	6300 lbs. (2858 kg)
Tilt Breakout Force – Roller Suspension.....	6100 lbs. (2767 kg)
Push Force .....	6200 lbs. (2812 kg)
Push Force – Roller Suspension .....	7500 lbs. (3402 kg)

\*Rated Operating Capacity (ROC) @ 35% of Tipping Load complies with ISO 14397-1 and SAE J 818 for crawler loaders.

## ENGINE/ELECTRICAL

- Shall have 4 cylinder, liquid-cooled diesel engine; 92 HP (68.6 kW) at 2400 governed RPM. This engine is compliant with EPA Tier II Emission Standards.
- Turbo-Charger (approved as Spark Arrestor), dual element air cleaner and automatically activated air intake heater cold weather assist shall be provided as standard equipment.
- Cooling air shall be drawn from above the loader uprights to provide clean, cool air.
- Air cleaner shall have dry replaceable cartridge with safety element.
- Battery shall be 12 volt with a minimum of 950 cold-cranking amps.
- Alternator shall be a minimum 90 amp.
- Starter shall be 12 volt; gear reduction type, 4.02 HP (3.0 kW)
- Starting aid shall be an automatically activated air intake heater.



## DRIVE SYSTEM

- Shall have Fully Hydrostatic Track Drive.
- Transmission shall be infinitely variable tandem hydrostatic piston pumps, driving 2 (two) fully reversing hydrostatic motors.
- Shall have 17.7" track width rubber track standard with 4.2 PSI (0.029 MPa) ground pressure
- Shall have optional 12.6" track width rubber tracks available with 5.8 PSI (0.040 MPa) ground pressure

## HYDRAULIC SYSTEM

- Pump Type shall be gear type capable of providing 21.2 gpm (80,25 L/min) for bucket, lift arm and attachment operation.
- System pressure at the quick couplers shall be 3300 PSI (227,5 Bar).
- High Flow Hydraulics shall have hydraulic system capable of providing 37 gpm (140 L/min) and 3300 PSI (227,5 Bar) system relief pressure through auxiliary circuit for high flow hydraulic attachment operation.
- "Variable flow" and "Maximum flow" auxiliary hydraulics shall be standard.
- Control Valve shall be three-spool, open center type. Shall include lift (with float detent) tilt and front auxiliary hydraulic spools.
- Cylinders shall be double acting type. Tilt cylinders shall have cushioning feature on dump and rollback.
- A hydraulic oil cooler shall be standard equipment.
- Engine/Hydraulic System Shutdown shall provide automatic engine shutdown to prevent loader damage.
- Standard auxiliary hydraulics shall include flush face style quick couplers.
- Cylinders shall meet the following minimum specifications:

Function	# of Cylinders	Bore Diameter	Rod Diameter	Stroke
Lift	2	3.00" (76.2 mm)	1.63" (41.4 mm)	25.00" (636.0 mm)
Tilt	2	3.00" (76.2 mm)	1.50" (38.1 mm)	15.10" (383.5 mm)

## OPERATOR COMFORT/CONTROLS

- Vehicle Steering shall have forward, reverse, travel speed and steering controlled by two independent hand levers.
- Hydraulic Functions - lift and tilt functions controlled by separate foot pedals. Standard front auxiliary hydraulics controlled by electrical switches located on the right steering lever handle.
- Hydraulic Functions (Optional)—Advanced Control System. Allows operator to switch between Advanced Hand Control and Advanced Foot Control for lift and tilt functions.
- Hydraulic Functions (Optional)—Selectable Joystick Controls. Allows operator to switch between ISO and H-Pattern for lift and tilt functions.
- Left-hand switches shall control optional rear auxiliary hydraulics.
- Engine Speed shall be controlled by hand lever.
- Engine starting and shutdown functions shall be controlled electronically with the key switch.
- A feature for draining pressure from the auxiliary hydraulics circuit shall be provided by pressing and holding the quick couplers for five seconds.
- Keyless start system shall be available as part of the deluxe instrument panel option.
- Optional cab with heater and/or air conditioning shall be available without changing the loader profile.
- Parking brake shall be Spring Applied Pressure Release multi-disk brake.

## CAPACITIES

Fuel Tank .....	30 gals. (113,6 L)
Engine Oil with Filter .....	14 qts. (13,2 L)
Cooling System .....	4.3 gals. (16,3 L)
Hydraulic Reservoir .....	4.7 gals. (17,8 L)
Hydraulic/Hydrostatic System .....	13 gals. (49,2 L)

## LOADER INSTRUMENTATION

The loader conditions shall be monitored by a combination of gauges and warning lights in the operator's line of sight, which monitor the following functions. The system should alert the operator of monitored loader malfunctions by way of an audible alarm and visual warning lights.

- Attachment Control Device (light)
- BICS Functions (light)
- Engine Air Filter (light & alarm)
- Engine Coolant Temp (gauge, light & alarm)
- Engine Oil Pressure (light & alarm)
- Fuel Level (gauge, light & alarm)
- Glow Plugs (light)
- Hourmeter (gauge)
- Hydraulic Filter Condition (light & alarm)
- Hydraulic Oil Temp (light & alarm)
- Hydrostatic Charge Pressure (light & alarm)
- System Voltage (light & alarm)
- Seat Belt (light)
  
- An air filter restriction indicator shall be provided as standard equipment.

## LOADER CONDITION MONITOR/INSTRUMENTATION

- An operating sensing system monitors the following loader conditions and functions:

### Gauges

- Battery Condition
- Engine Coolant Temp
- Engine Oil Pressure
- Fuel Level
- Hydraulic Oil Temp
- Hydrostatic Charge Pressure
- Tachometer

### Warning Lights\*\*\* & Alarm

- Advanced Control System
- Advanced Hand Controls
- Engine Coolant Temp
- Engine Oil Pressure
- Hydraulic Oil Temp
- Hydrostatic Charge Pressure

### Other Functions

- Automatic Shutdown
- Bucket Positioning (Opt.)
- Clock
- Diagnostic Capability \*\*
- Help Functions \*
- High Flow Auxiliary Hydraulics (Opt.)
- Job Clock
- Keyless Start

\* Display informs operator of attachment function and usage.

\*\* To simplify trouble shooting procedures for active warnings.

\*\*\* The 14 warning lights that are included with the loader instrumentation are also included with the optional Deluxe Instrument Panel.

## ATTACHMENTS

- All attachments must 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 (2) minutes or less.
- The quick change mechanism will incorporate two handles that drive spring loaded, wear compensating wedges into the attachment ensuring a tight attachment fit-up.
- Backhoe operation must 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 must be provided which will control all available attachments.
- The following attachments must be available:
  - Angle Broom\*
  - Auger
  - Backhoe
  - Bale Fork
  - Breaker
  - Brush Saw
  - Brushcat Rotary Cutter ♦
  - Chipper\*
  - Combination Bucket
  - Concrete Mixer\*
  - Concrete Pump
  - Dozer Blade
  - Drop Hammer
  - Dumping Hopper
  - Flail Cutter
  - Forestry Cutter
  - Grapple, Industrial
  - Grapple, Root
  - Landplane
  - Landscape Rake
  - Packer Wheel
  - Pallet Fork – Heavy Duty
  - Pallet Fork – Hydraulic
  - Planer—standard, curb or high flow\*
  - Scraper
  - Seeder
  - Snow V-Blade\*
  - Snowblower\*
  - Sod Layer
  - Soil Conditioner—manual or hydraulic\*
  - Spreader
  - Stabilizer
  - Stump Grinder\* ♦
  - Three-Point Hitch
  - Tiller
  - Tree Spade\*
  - Trench Compactor
  - Utility Frame
  - Vibratory Roller
  - Water Kit
  - Wheel Saw ♦
  - Whisker Broom

\*Attachment Control Kit required

♦ High flow auxiliary hydraulics required or approved

## SERVICEABILITY

- Access to the following service items shall be gained by opening the rear door/tailgate and rear screen:
  - Air cleaner
  - Alternator
  - Battery
  - Cooling system (radiator and hydraulic oil cooler) for cleaning
  - Engine oil and fuel filters
  - Engine oil drain and dipstick
  - Fuel fill
  - Hydraulic oil fill
  - Starter
- Tailgate shall have optional lock for vandal proofing.
- Tailgate shall be equipped with a doorstop to hold the door open while servicing.
- Shall have easy access to all lift arm grease points.
- Rod end of the tilt cylinder shall have a replaceable bushing.
- Tip-up operator cab shall give access to certain hydraulic system components.

## 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 shall be 33" (838 mm).
- A seat belt and an electrically switch-operated parking brake shall be furnished as standard equipment.
- Front and rear work lights shall be standard.
- 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 to assist in servicing the loader shall be provided as standard equipment.
- 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  $\frac{1}{4}$  turn. Then, pull up and hold until the lift arms slowly lower.
- Grab handles to assist the operator in mounting and dismounting the loader shall be provided as standard equipment.
- 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.

## TRAINING RESOURCES

- A comprehensive Loader Operator Training Kit shall be available.
- A comprehensive Service Safety Training Kit shall be available.



**Bobcat.**

**FORESTRY CUTTER ATTACHMENT  
FORESTRY APPLICATIONS KIT**

(Required to operate forestry cutter.  
See back page for details)



**Bobcat.**

*of Advantage Valley*

DIVISION OF  
JEFFERDS CORPORATION

**SALES • SERVICE • RENTAL**

Cross Lanes, WV 25356-0555

304-776-9100 • 1-866-426-2228



## Forestry Cutter Attachment

- Smooth operation
- Fast production
- High visibility

## Forestry Applications Kit

- Protection for the operator
- Protection for the machine



# Looking for a complete? tree & brush management package?

## Look to Bobcat!

Whether you're clearing every tree in an area or selectively thinning stands, choose the Bobcat® forestry cutter attachment. The compact size and legendary agility of Bobcat equipment lets you remove the trees you want—turning them into a bed of mulch that slows growth, and provides organic material for the trees you keep!

## Cut higher trees and limbs down to size

Punch into large-diameter trees and bring the uppermost limbs quickly to the ground! The forestry cutter's tube-style drum and spiral tooth pattern allow one tooth to engage at a time—so operation is smooth and less horsepower is required to do the job.

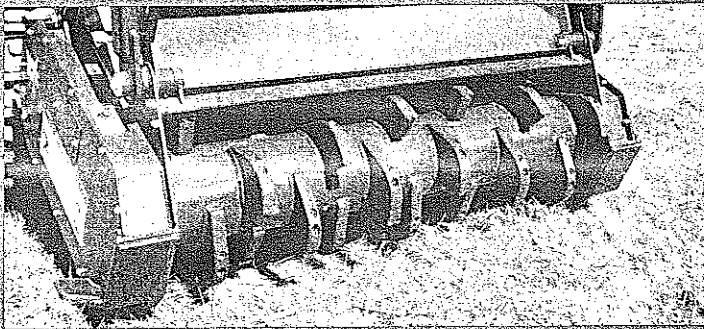
## Grind trees from top to bottom!

Why take a tree to the wood chipper when you can take a forestry cutter attachment to the tree? Simply lower the forestry cutter onto the tree and its fast-cutting teeth can rip it to shreds, or tear it to pieces by repeatedly hitting it from the side.

## Produce mulch

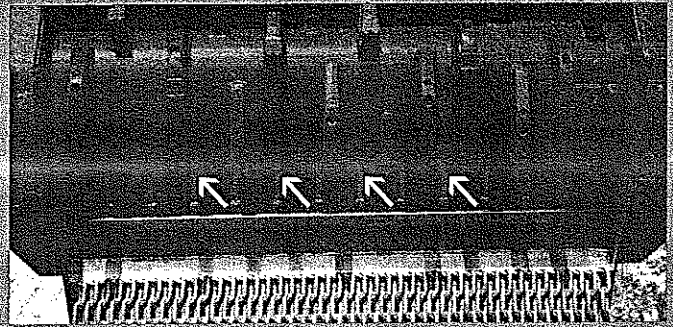
Tilt the forestry cutter slightly forward to throw material against counter combs that reduce particles to mulch. Lowering the optional front gate will help retain material when finer mulching is necessary. If required, the forestry cutter has the ability to till the mulch right into the soil!

## Forestry Cutter Features and Benefits



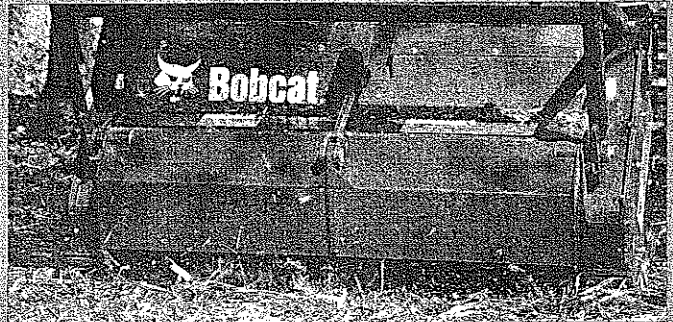
### Tube Style Drum with Carbide Teeth

- Spiral tooth pattern allows one tooth to engage at a time for smoother operation and less horsepower demand
- Double-tipped carbide teeth efficiently rip through hard and soft woods, provide long life
- Low number of teeth (30) provides fast knockdown of trees and low cost replacement
- Operate below grade to process mulch into the soil
- Pressure gauge is visible from the seat to help operator monitor attachment output efficiency
- Straw-to-mulchable push bar has three positions to accommodate operator's preferred setting
- Drum brake stops from full speed in 10 seconds or less when the forestry cutter's hydraulics are deactivated



### Mulching Counter Combs

- Counter combs provide the ability to do fine mulching and provide wear protection for the rear of the housing
- Safety chains reduce debris thrown to rear



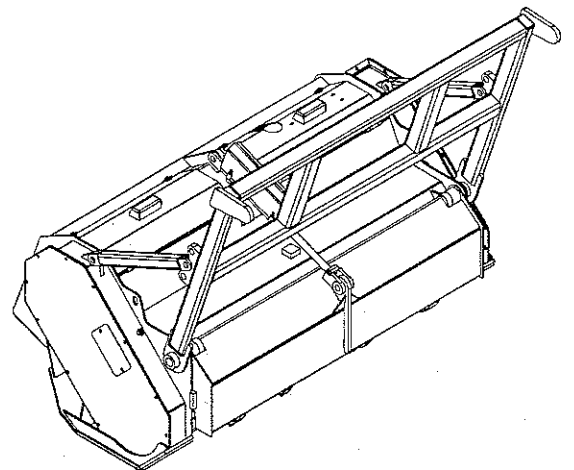
### Optional Front Gate

- Reduces front discharge of material
- Promotes longer processing into finer mulch
- Can be quickly added to any Bobcat forestry cutter

*The Bobcat Attachments Advantage: Bobcat attachments are engineered and manufactured to fit Bobcat loaders for optimum job performance, dependability and durability.*

## Specifications

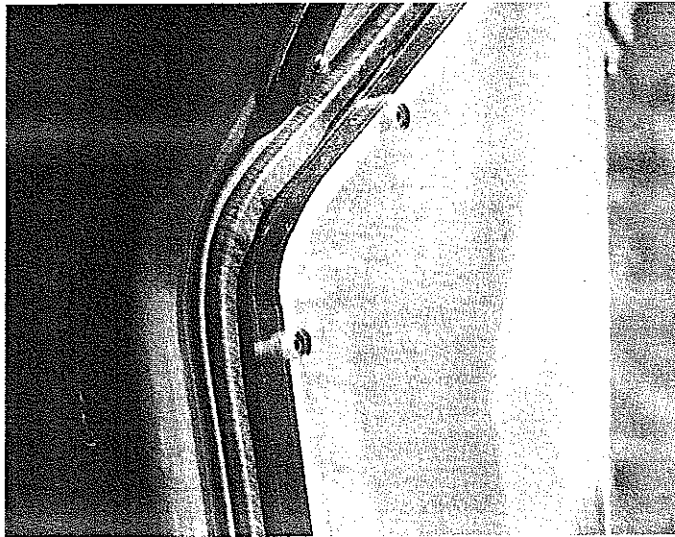
Overall width.....	73.4 in.
Cutting width.....	60 in.
Operating weight.....	2329 lb.
Operating weight..... w/ front gate	2449 lb.
Number of teeth .....	30
Tree diameter:	
Continuous use.....	4-5 in.
Intermittent removal .....	7-9 in.
Occasional removal.....	10-12 in.





# Bobcat® Forestry Cutter Attachment and Required Forestry Door and Applications Kit

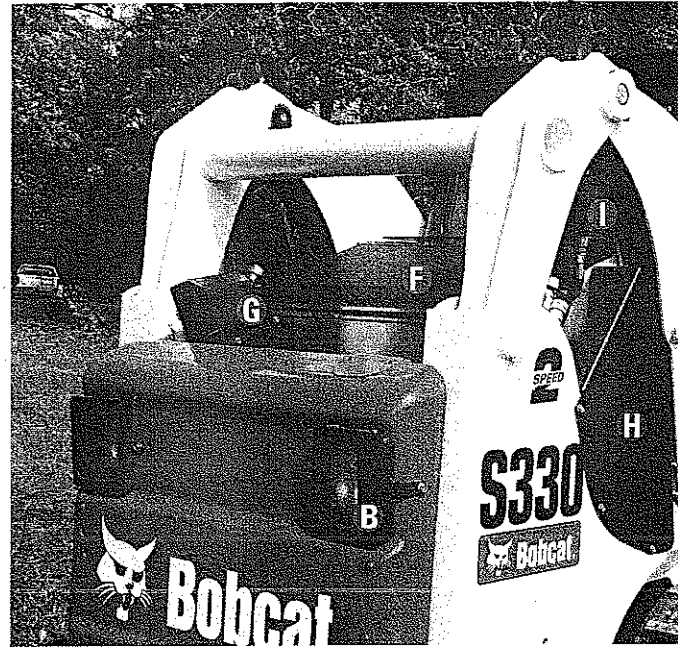
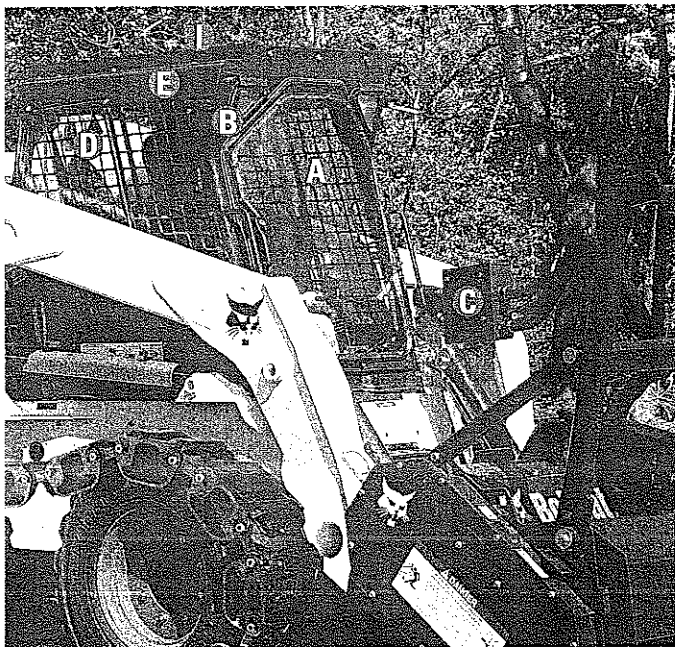
## Forestry Applications Kit: Protect Your Operator, Protect Your Machine



Designed to protect you, and your investment, in the toughest conditions, the forestry applications kit must be installed on the loader in order to operate the forestry cutter attachment. The exclusive forestry door protects you from flying debris and objects. Other benefits include ISO 3449 Level II Falling Object Protective Structure (FOPS) and debris guards for muffler, lights and hydraulic components.

The exclusive emergency exit allows removal of front door, if necessary.

NOTE - Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. Pictures of Bobcat units may show other than standard equipment. All dimensions are given for loader equipped with standard tires. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses. Bobcat Company complies with the requirements of ISO 9001 as registered with BSI.



### The Forestry Applications Kit includes:

#### A Forestry Door (3/4 in. laminated polycarbonate)

The forestry cutter attachment will not operate without the door installed. Emergency exit allows removal of front door, if necessary

#### B Front and Rear Light Guards

1/4" polycarbonate material ensures branches and debris won't break lights

#### C Hydraulic Quick Coupler Guard

The guard, along with no exposed fittings on the hoses, helps protect the couplers, hoses and wire harness from falling trees and branches

#### D Fire Extinguisher

Mounted in the cab for quick access in an emergency

#### E Level II FOPS (meets ISO 3449)

Protects operator and cab from falling trees and objects

#### F Debris Screen for Radiator

Allows for longer operation time and easier cleanup of debris (daily maintenance still required)

#### G Muffler Guard

Protects tailpipe from damage and reduces material buildup in the engine compartment

#### H Lift Cylinder Debris Shields

Protects lift cylinders, reduces material buildup in the engine compartment (daily maintenance still required)

#### I Top and Rear Windows (1/4 in. polycarbonate)

Protects operator and maximizes visibility

Bobcat  
Forestry  
Cutter  
Attachment  
fits these  
carrier  
models\*:

Skid-Steer  
Loaders\*:  
S300H  
S330H

Compact Track  
Loaders\*:  
T250H  
T300H

All-Wheel  
Steer Loaders\*:  
A300H

\*Loader must  
have proper  
cooling  
package.  
See your  
Bobcat dealer  
for details.



Bobcat Company  
P.O. Box 6000 • West Fargo, ND 58078  
www.bobcat.com

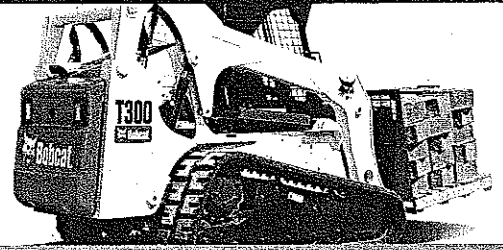






**Bobcat.**

## Compact Track Loaders



**Bobcat.**

of Advantage Valley

DIVISION OF  
JEFFERDS CORPORATION

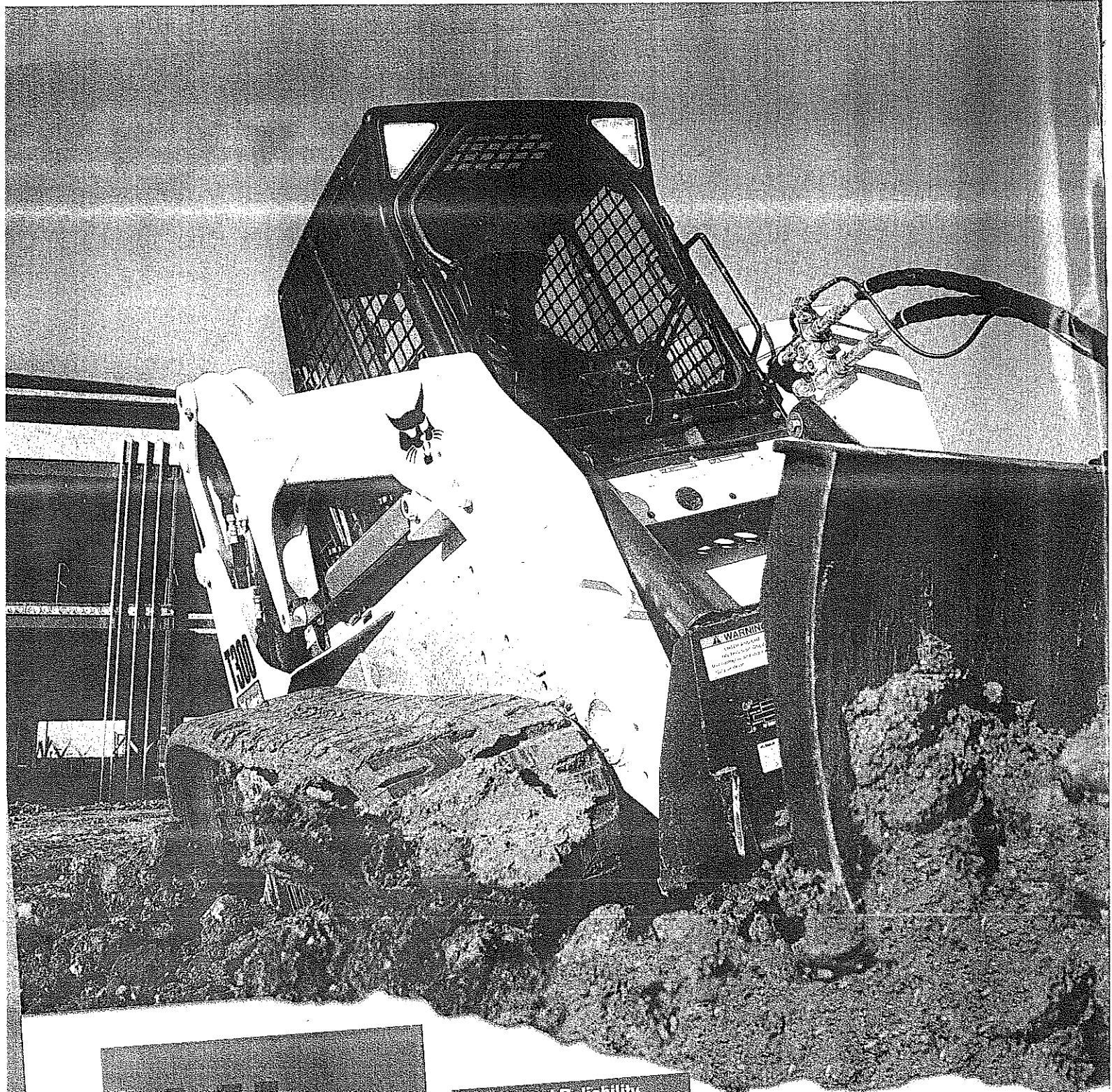
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***One Tough Animal***





## Why a Bobcat® Compact Track Loader?

### Time-Tested Reliability

Bobcat compact track loaders represent 50 years of advancement in compact equipment technology. They possess the same high level of reliability, durability, ease of maintenance and dealer service and support Bobcat customers have come to expect.

### Models to Choose From

The perfect balance between physical size and performance is important in every application. Maximize your production by choosing the right machine for your job. Bobcat offers six compact loader models ranging from 56 to 80 inches wide and 49 to 92 hp. Plus, you can match height and reach requirements with a choice of two lift arm configurations – vertical and radius lift path.

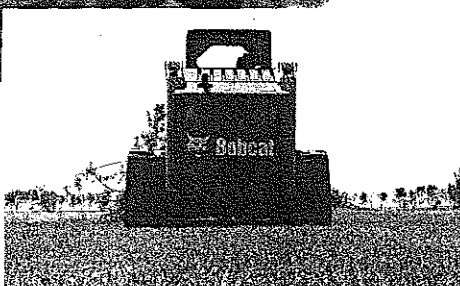
### Big Results – Small Package

Compact track loaders weigh significantly more than skid-steer loaders of the same size. This gives them higher pushing force and allows large loads to be lifted. At the same time, by distributing the weight of the machine over a large area, they provide increased flotation and minimal ground disturbance. And because maneuverability is so important, all Bobcat models offer the best horsepower to weight ratio in the market.



# Proven Track Record

Over 50 years of experience and innovation are built into every Bobcat® loader.



## Low-Impact

High-flotation Bobcat compact track loaders help you minimize damage to lawns, natural terrain and other established surfaces. Fewer repairs to existing surfaces mean lower on-site costs and more profit! Many Bobcat compact track loaders offer multiple track options that meet your needs for lower ground pressure and better flotation.

## Designed for Durability

Bobcat compact track loaders last longer in more demanding environments than any other track loader. They have a **fully enclosed steel undercarriage** with very few moving parts to minimize maintenance costs. **Steel rollers and idlers** are permanently sealed and lubricated, requiring no routine maintenance. Our new optional Roller Suspension is **the first all-steel suspension system in the industry**. Even the exclusive C-pattern rubber track has **steel cables and imbeds** to increase service life.

## A Smoother Ride

Bobcat compact track loaders ride over the top of rough terrain, such as ruts or potholes, and **improve ride quality without sacrificing either grading performance or durability**.

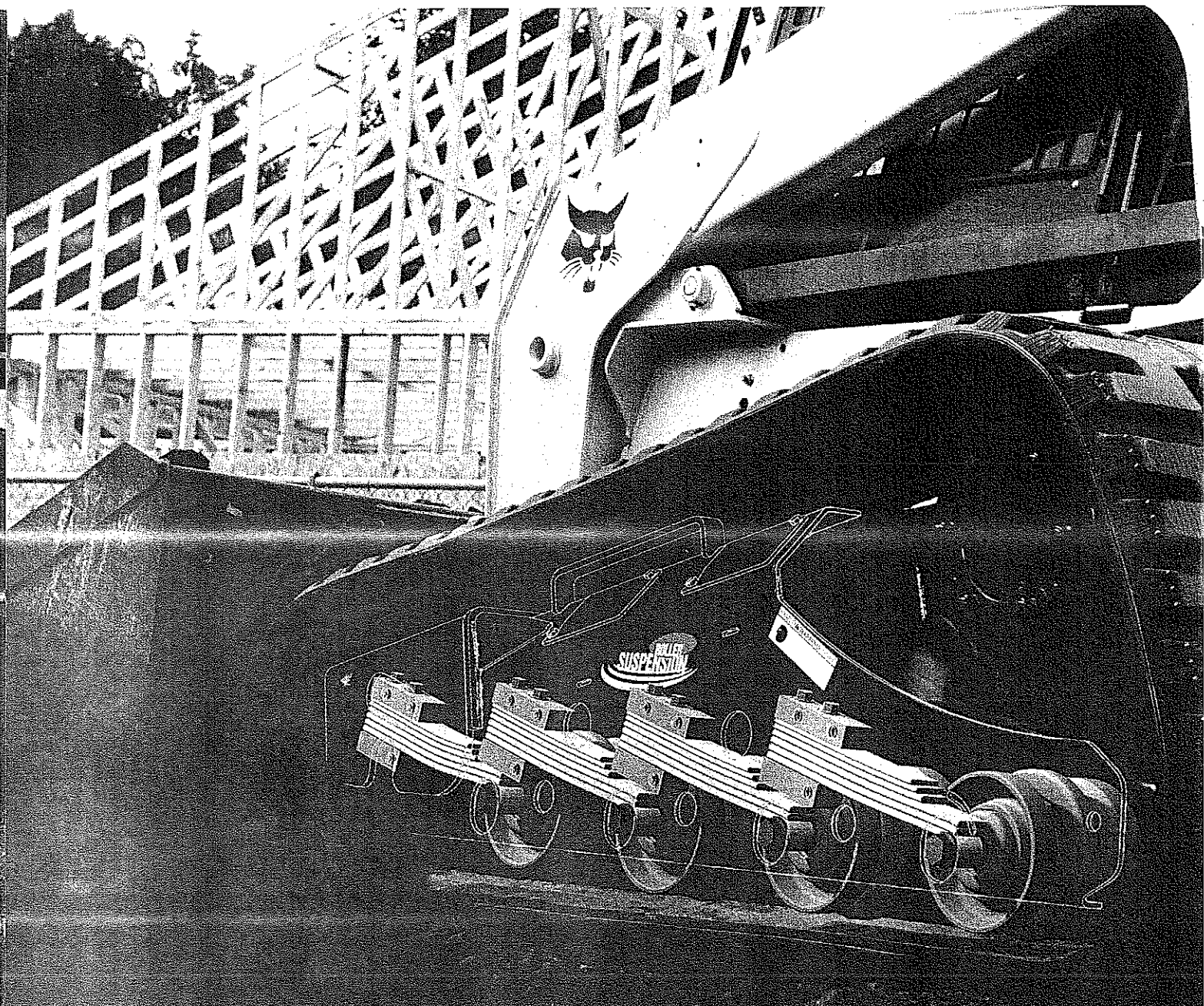
## Superior Pushing Force

With more surface area in contact with the ground, compact track loaders provide more tractive effort than wheeled compact loaders. **The pushing force of Bobcat compact track loaders is second to none** due to direct-drive motors, a solid-mounted undercarriage, and a balance between machine weight and horsepower.

## Expand Your Season

With the weight of the machine spread over a larger area, compact track loaders have a lower ground pressure than tire loaders. This increases flotation and allows you to **work more productively in soft, sandy, wet or muddy conditions**, where other machines aren't as effective. Some customers have added 10 days, or more, of extra income, per machine, in a season.





**ROLLER  
SUSPENSION**

# Bobcat Roller Suspension

*The toughest compact track loader suspension system in the industry.*

Bobcat Company is proud to introduce the first suspension system for compact track loaders with an all-steel design and steel imbed tracks for increased durability. Available as an option on select models, the Roller Suspension system delivers a more comfortable ride and is very robust in the demanding environments faced by compact track loaders.

# T320

 Bobcat

## Unmatched Strength and Durability

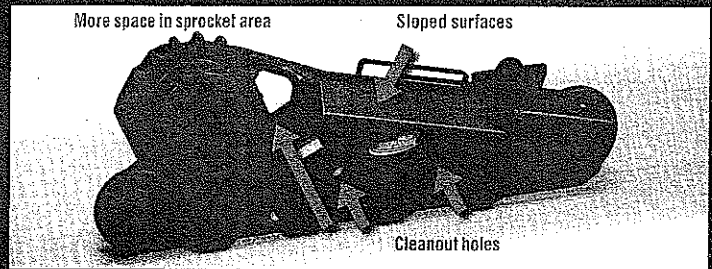
The heavy-duty Roller Suspension system allows you to go through harsher conditions, be in the field longer and spend less on undercarriage repair costs than other suspension systems.

- Longer lasting suspension components achieve a more comfortable ride without sacrificing durability
- Steel leaf springs are more robust in extreme heat and cold
- Drive motors and hydraulic hoses are solid-mounted for better protection from debris and more uptime

## Increased Comfort

A new level of comfort is achieved with durable steel leaf springs which greatly reduce the feedback from the ground. The more comfortable ride, together with easier turning, less vibration and reduced noise help keep you more comfortable throughout the day.

- Bumps are absorbed by roller travel for smoother ride
- Reduced vibration at the ground where it starts
- Weight of the machine rests on rollers for easier turning



## Ease of Maintenance

Just like our job-proven solid-mounted track undercarriage, Bobcat Roller Suspension is virtually maintenance free.

- Very few moving parts
- No exposed hydraulic hoses to damage
- No moving pivots or tensioning rods that require maintenance and service
- 50% more sloped surfaces provide better debris shedding and faster cleanup
- Increased space around the sprocket area for quicker cleaning
- New pressure washer access holes for easier cleanout

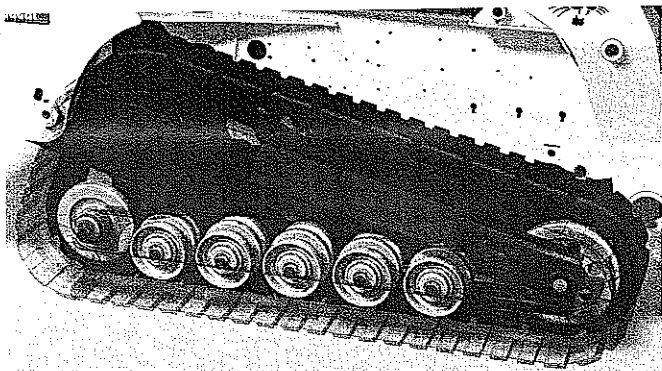
## Increased Performance

Travel across jobsites faster due to the smoother ride. Easily drive over hard objects, rocks and curbs. Reduce material spills from the bucket and gain weight for pushing and grading.

- Increase productivity with faster travel on the jobsite, easier travel over objects
- Suspension stops minimize "grade bounce" and maintain the ground contact of the attachment's cutting edge, increasing grading accuracy
- Heavy springs add weight to the loader for better pushing and grading
- Hugs the crest of hills and curbs to smoothly transition across the machine's fulcrum
- Reduced material spillage from the bucket increases productivity and provides faster jobsite cleanup



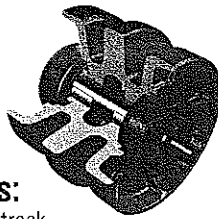
## Advantages of Bobcat® Compact Track Loaders



### Forged Steel Rollers:

Forged steel rollers guide and support the center track area.

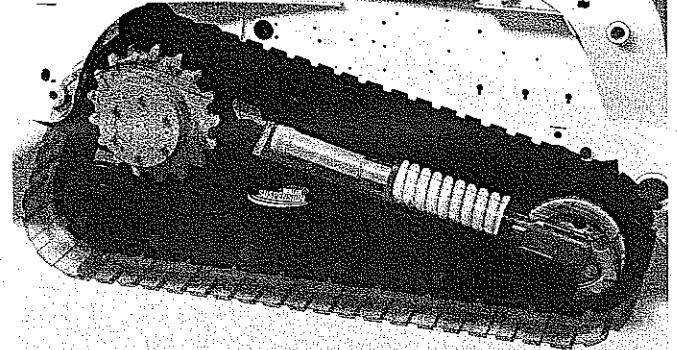
- Triple flange design minimizes de-tracking.
- Permanently sealed and lubricated requiring no routine maintenance.
- Improve ride and overall track life.
- More durable than rubber coated rollers.



### Single Flange Forged Steel Idlers:

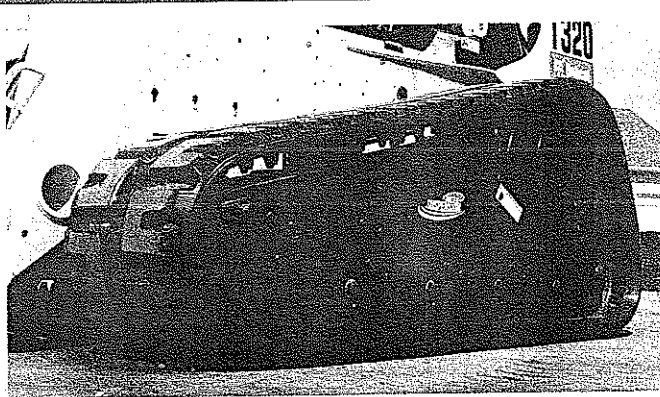
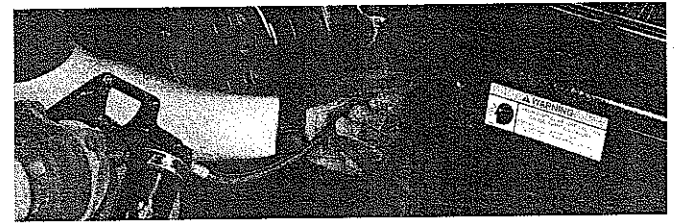
Single flange forged idlers guide and support the track around the ends of the undercarriage.

- More tolerant of debris than dual flange idlers so de-tracking is minimized.
- Permanently sealed and lubricated requiring no routine maintenance.
- Front idlers absorb shock loads and are part of a simple system which helps maintain track tension.



### Easiest Track Maintenance in the Industry:

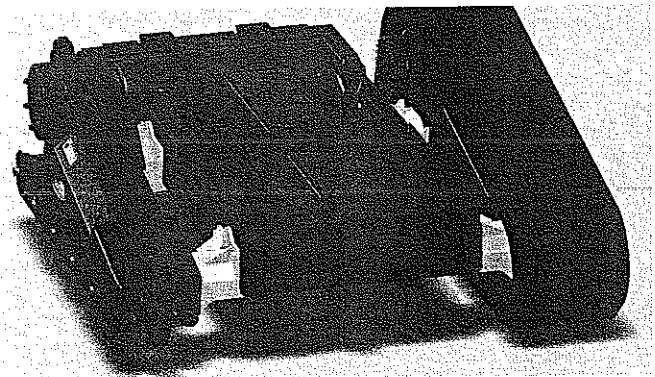
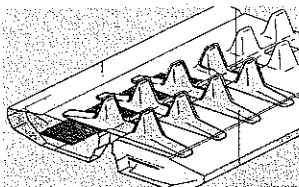
Track tension is easily adjusted by opening an access cover and adding grease to the tensioning cylinder with a common grease gun. The elevated sprocket design sheds mud and debris as you work, reducing wear on both sprockets and tracks. The fully enclosed undercarriage has very few moving parts and is more tolerant of debris. Bobcat chose this undercarriage because open systems allow more material to collect and wear on components.



### Exclusive C-Pattern Rubber Track:

Custom made for Bobcat and designed and built for the longest service life possible. The C-pattern design provides the best combination between flotation and traction. These durable rubber tracks feature three main components:

- **Internal steel cables** similar to steel belted radial tires provide a strong base.
- **Steel imbeds** guide and support the center of the track when engaging the drive sprocket, adding to durability.
- **Special rubber compound** is molded around the cables and imbeds to produce a strong, continuous rubber track reducing fatigue and cracking.
- **Off-set Lugs** for smoother ride.

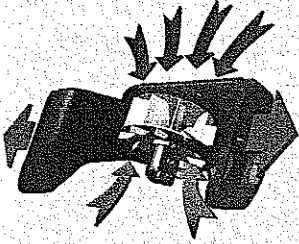


### Solid-Mounted Track Undercarriage:

Both the standard track system and optional Roller Suspension feature a solid-mounted track undercarriage. This undercarriage provides the traction necessary to work in soft conditions like mud, sand, manure and dirt, and protects components from damage for longer life. Its design also stabilizes the loader and the work group – making it the best type of undercarriage for grading.

- Consistent tractive effort improves pushing power
- Produces a more level grade than other track systems
- Permits higher tipping loads for improved performance when carrying materials

## Advantages of Bobcat® Compact Track Loaders



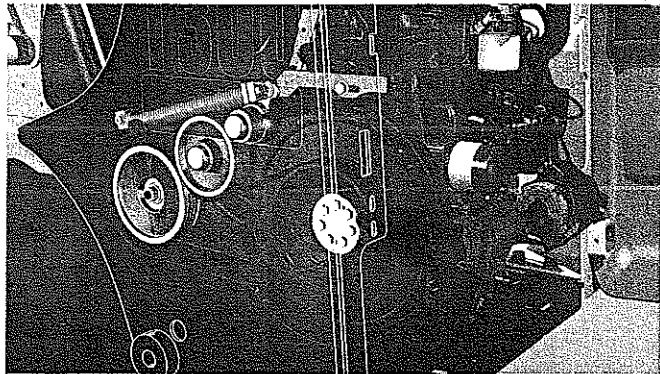
### Exclusive Dual Path Cooling:

Bobcat loaders bring cooler, cleaner air in from above the machine, while at the same time removing hot air from the engine and hydrostatic area, creating the **exclusive "dual-path" cooling system**. Both are then exhausted out two side vents, keeping hot air away from the operator. Bobcat chose this cooling system because "single path" systems pull air in from the sides or below the machine causing dust and debris to enter the engine compartment, possibly plugging the radiator and air filter.

### SmartFAN:

The new hydraulically powered cooling fan on Bobcat loaders automatically adjusts to coolant temperature to give these benefits:

- The **ONLY** variable speed fan in the industry
- Rotates at full speed only when needed
- Makes the machine 30% quieter in most operating conditions
- Better jobsite communications
- Better cooling in extreme conditions



### Bobcat Belt Drive – The Best Engine Access:

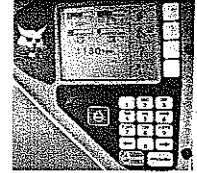
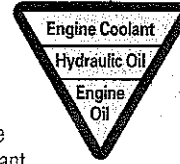
Bobcat loaders utilize a multi-groove Kevlar™ belt and different size pulleys to power the hydraulic system. This allows the pump to turn faster than the engine, and provides the following benefits:

- **One-side serviceability** of all routine maintenance points due to a transversely mounted engine.
- A quieter engine with a longer service life.
- Minimal maintenance with spring loaded idlers that maintain belt tension.
- 3-Year Belt Warranty (if belt needs to be replaced)

Bobcat has been using this system since 1983. It is time tested, exclusive to our loaders and offers more benefits than a direct drive system similar to the one we used over twenty years ago.

### Machine Shutdown Protection

A standard feature on Bobcat compact track loaders, this system monitors vital machine functions, such as engine coolant temperature, engine oil pressure and hydraulic oil temperature.

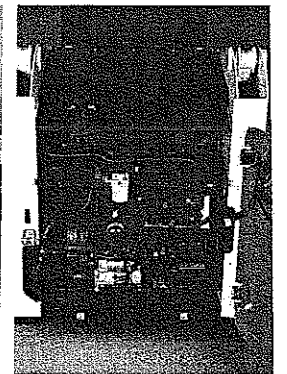
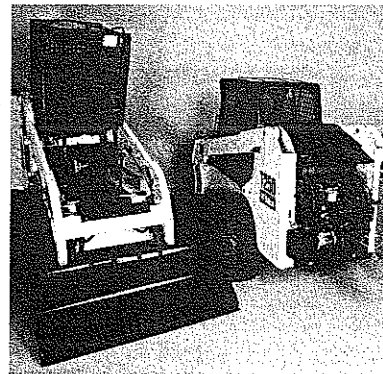
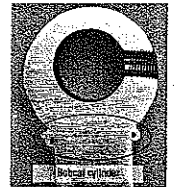


If a monitored function is out of normal operating range, the system provides an audible alert, a warning message and, depending on the severity of the function, will shut down the machine to avoid failure. Features like this are why Bobcat loaders have the highest resale value in the industry.

### Bobcat Built Hydraulic Cylinders:

Bobcat makes its own cylinders to ensure they are designed and matched specifically to the requirements of our loaders. Our manufacturing process produces cylinders that have the significant durability advantages:

- **Patented Inertia-Welded Cylinders** have no voids (gaps) in the weld producing a stronger cylinder with up to five times more cycle life than conventionally welded cylinders.
- **Hydraulically cushioned tilt cylinders** offer smoother operation on extension and retraction for longer cylinder life.
- **Stud-welded port fittings** minimize distortion of the cylinder wall, providing longer joint life and reduced chance of leakage.



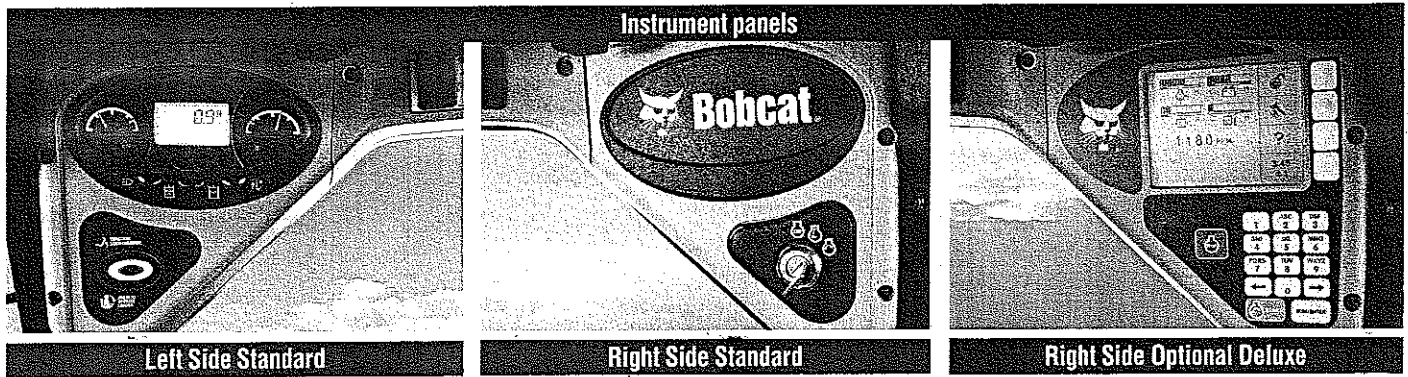
### Ease of Serviceability:

Routine maintenance is an important factor in controlling operating costs. Bobcat loaders have the most convenient access to components in the industry.

- **One-side serviceability** is provided by a swing open tailgate and transversely mounted engine. Daily maintenance items such as engine fluid check, filters, battery, air cleaner and other components are all within easy reach.
- Fast access to hydraulic and hydrostatic components is a five minute procedure by simply removing two nuts and tipping back the cab. Other brands may take up to an hour and require special tools.
- Easy-to-clean oil cooler and radiator.



# Advantages of Bobcat® Compact Track Loaders



State-of-the-art instrument panels provide dozens of operational features, diagnostics and monitoring. Optional deluxe instrument panel includes keyless start security system, feature lockouts, digital time and job clocks, multi-language display, even a "help" menu.

## Operator Space and Comfort



### The Bobcat Standard

All-around visibility is at the design center of Bobcat loader cabs. Sight lines to the wheels increase your performance when operating in tight areas, such as grading next to a building, or backing on to a trailer. Overall comfort begins with the operator – more head, waist, leg and elbow room means less confinement and less fatigue. The rear-pivot seat bar accommodates larger operators and doubles as a secondary restraint and armrest. This provides comfortable support and more precise operation of controls. Additional standard features include: dome light, power port (for charging your cell phone), suspension seat

## Exclusive Operator Training Kits

### Operator Safety and Training:

- Bobcat loaders are equipped with a number of safety features.
- The standard Bobcat Interlock Control System (BICS™) is available only on Bobcat loaders. This patented system prevents operation of lift and tilt functions and traction drive system unless the operator is in the seat with the seat bar down.
- Other Standard Features – seat bar · seat belt · lift arm support · convenient steps and grab handles · Rollover and Falling Object Protective Structure (ROPS/FOPS cab) · lift arm bypass control · emergency front and rear exit windows.

### Exclusive Operator Training Kits:

- Train operators and technicians on the safe operation and service of Bobcat equipment. Available through your Bobcat dealer in English and Spanish versions.
- Ten-minute safety videos ideal for rental customers are also available.
- Visit [www.bobcat.com](http://www.bobcat.com) for more information.



## T140

Radius Path



With the T140, you get all the power, versatility and durability you expect from Bobcat equipment – you just get to work with it in tighter spaces. The T140 is small enough to work in confined areas, be towed behind many half-ton pickup trucks, yet strong enough to handle bigger landscaping and construction jobs.

<b>1,400 lb.</b> Rated Operating Capacity	<b>49 hp</b> Turbo Diesel Engine	<b>6,660 lb.</b> Operating Weight	<b>56 in.</b> Width	<b>16 gpm</b> Hydraulic Flow
--	-------------------------------------	--------------------------------------	------------------------	---------------------------------



## T180

Radius Path



With the T180, experience the power and performance of a bigger machine while maintaining the maneuverability of a small unit. The pushing force to move material and visibility to the cutting edge and tracks makes this loader the perfect machine for grading, digging and backfilling.

<b>1,800 lb.</b> Rated Operating Capacity	<b>66 hp</b> Turbo Diesel Engine	<b>7,367 lb.</b> Operating Weight	<b>68 in.</b> Width	<b>16/25 gpm</b> Hydraulic Flow
--	-------------------------------------	--------------------------------------	------------------------	------------------------------------



## Advantages of Bobcat® Compact Track Loaders



# T190

Vertical Path



The T190 gives you profit-making performance. Not only do you get the performance of a bigger machine while maintaining the maneuverability of a small unit, but you also get a vertical lift path loader which provides excellent reach for lifting, carrying materials and loading trucks.

**1,900** lb.  
Rated Operating Capacity

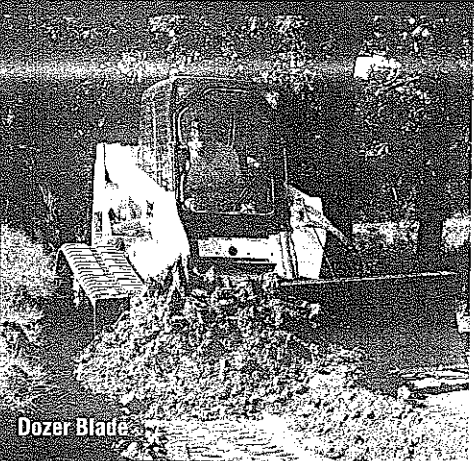
**66** hp  
Turbo Diesel Engine

**7,612** lb.  
Operating Weight

**68** in.  
Width

**16 / 25** gpm  
Hydraulic Flow

Bucket



# T250

Radius Path • Roller Suspension



Experience the incredible strength of the T250 compact track loader. It's the perfect machine for grading, excavating, and pushing material. Also, with a radius lift path, this loader provides great visibility to work in tight areas and provides excellent reach at mid-lift height.

**2,500** lb.  
Rated Operating Capacity

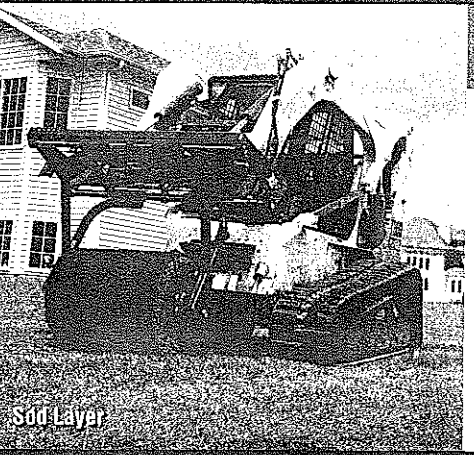
**81** hp  
Turbo Diesel Engine

**9,347** lb.  
Operating Weight

**80** in.  
Width

**21 / 37** gpm  
Hydraulic Flow

Dozer Blade



# T300

Vertical Path • Roller Suspension



The T300 offers top-end performance in every aspect of your work site. Not only does this machine have superior pushing force, great flotation, and unmatched operator comfort, but also excels at lifting heavy loads and dumping into tall trucks with its vertical lift arm path.

**3,000** lb.  
Rated Operating Capacity

**81** hp  
Turbo Diesel Engine

**9,702** lb.  
Operating Weight

**80** in.  
Width

**21 / 37** gpm  
Hydraulic Flow

Sod Layer



# T320

Vertical Path • Roller Suspension



When there's no such thing as too much power, start up the Bobcat T320 compact track loader! Tough grading, heavy pushing and high-flow attachment applications are no sweat for the T320's impressive 92 horsepower engine.

**3,100** lb.  
Rated Operating Capacity

**92** hp  
Turbo Diesel Engine

**9,702** lb.  
Operating Weight

**80** in.  
Width

**21 / 37** gpm  
Hydraulic Flow

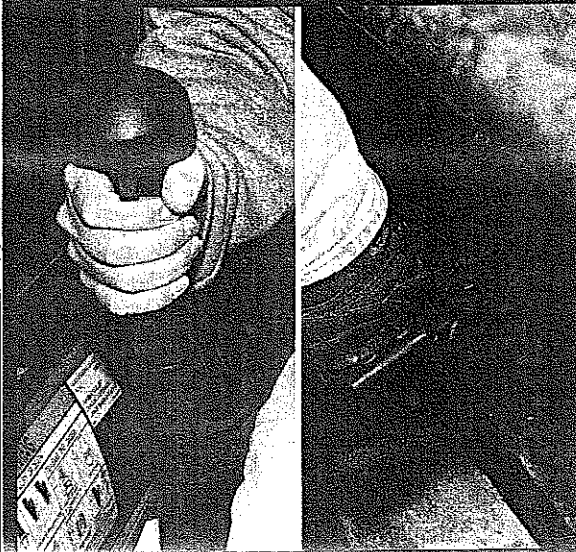
Pallet Fork

# Control Options for Bobcat® Compact Track Loaders

## Bobcat Standard Controls

### The Original...

Dual steering levers control the drive functions, while dual foot pedals control the loader lift & tilt. We invented this control style nearly 50 years ago, and it's still one of the most popular styles today.

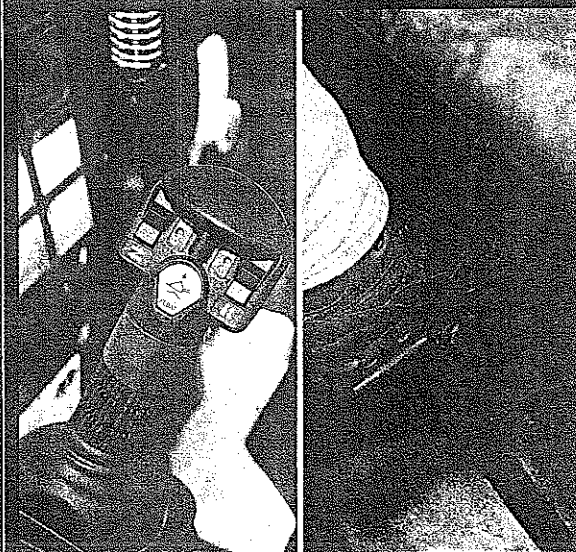


Pattern	Location	Left	Right
Bobcat	Hands	Drive	Drive
	Feet	Lift	Tilt

## Advanced Control System (ACS)

### Two control styles in one machine...

With this control option, the operator can choose between Bobcat controls and H-pattern hand controls - at the flip of a switch.



Selectable



Pattern	Location	Left	Right
H	Hands	Drive/Lift	Drive/Tilt
Bobcat	Hands	Drive	Drive
	Feet	Lift	Tilt

## Selectable Joystick Controls (SJC)

### It's all in the hands...

These low-effort joysticks allow operators to control all machine functions with their hands. This state of the art system is also loaded with exclusive features:

**Speed Management** – Allows operator to match travel speed to operation requirements for optimizing attachment performance and even more precise control of machine movements in tight areas.

**Horsepower Management** – Automatically adjusts the drive system to maximize pushing and digging power without stalling the engine.

**Foot Throttle** – Since the feet are free of controls with SJC, a convenient foot throttle is provided to increase engine speed when needed.

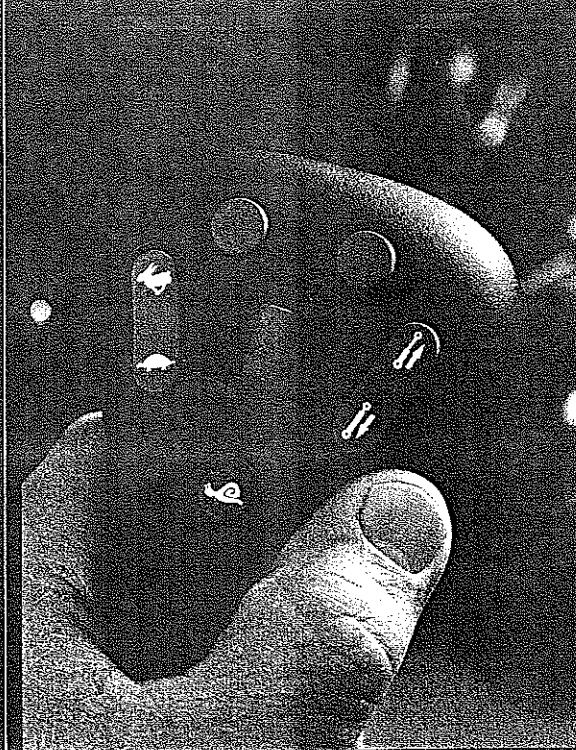
**Fingertip Switches** are integrated into the handles to easily control various machine functions. Control attachment functions, speed management, horn and blinkers without the need to let go of the joysticks.

**Selectable Control Pattern** – Can select ISO or H-Pattern hand controls at the flip of a switch to satisfy different operators.

Selectable



Pattern	Location	Left	Right
ISO	Hands	Drive	Loader
H	Hands	Drive/Lift	Drive/Tilt





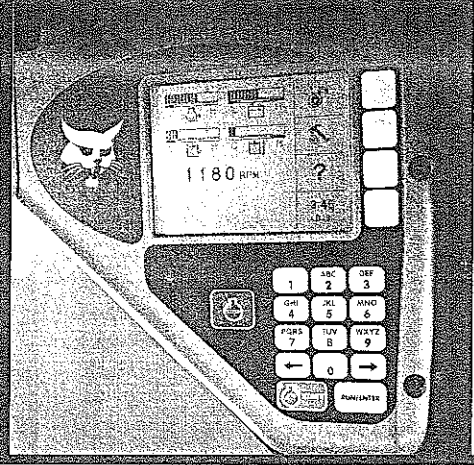
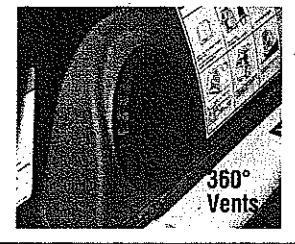
# Options for Bobcat® Compact Track Loaders



## Enclosed Cab, Heat and Air Conditioning

Want the ultimate in comfort and protection? The Bobcat cab enclosure system is custom designed by Bobcat engineers specifically for your loader, then installed in our factory for a clean look. This makes it simply the best system on the market for keeping you comfortable, clean, and at the right temperature while you work.

- **Fully Integrated A/C Design** – Means there is no external A/C unit to get damaged, or obstruct visibility, and no cab space is sacrificed so you keep all your elbow room.
- **360° Vents** – Blow air where you want it thanks to special vents and duct work. Direct heated or cooled air to your face, torso, and feet – and to the windows and front door for defrosting.
- **Curved Front Door** – We curved the front door outward, providing more space in the cab, and to have a clear sight path to the work area.

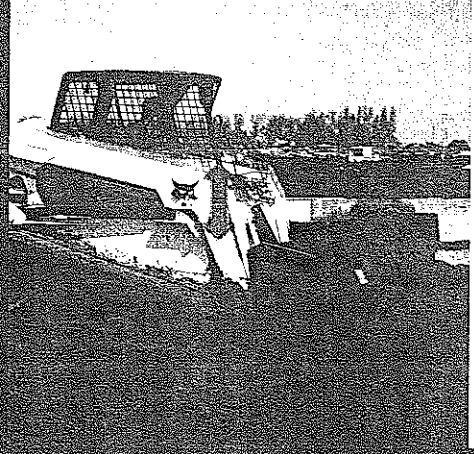


## Deluxe Instrumentation

This intelligent Bobcat option lets the operator closely monitor and interact with the machine, and adds another level of security for theft prevention.

### Deluxe Instrumentation Benefits:

- **Keyless Start Security System** – Allows the panel to be locked at the end of the day, and only your security code will unlock it and allow the machine to start. No more keys to lose.
- **Multi-Language Feature** – Displays vital machine functions and warnings in your choice of seven languages – including Spanish, English, and French.
- **Function Lockouts** – Allows an owner to lock out certain machine functions to prevent misuse or damage. For example, you may choose to lock out high flow hydraulics so your operators do not accidentally activate this function with a non-high flow attachment.
- **Other Features** – Digital time clock, resettable hour meter, attachment controls help menu, and multiple password settings.



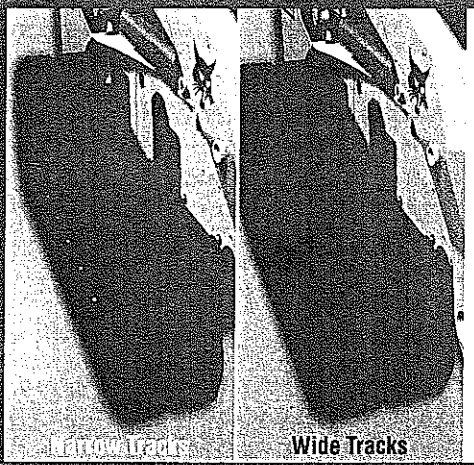
## Ride Control

Want to make your machine ride smoother? The Ride Control option is made to better absorb shocks caused when carrying loads over uneven ground.

The cushioned ride is accomplished by an accumulator in the loader lift circuit. With the lift arms slightly raised, the accumulator acts like a shock absorber on vehicles. The result is a cushioned ride that makes the ride smoother, and reduces instances of spillage from a bucket or pallet forks.

### Ride Control Advantages:

- Provides smoother ride
- Reduces operator fatigue
- Reduces spillage



## Track Options

Bobcat track loaders have the unique ability to accommodate different track widths. Optimize your track loader performance by selecting the track width that matches your needs.

**Narrow Tracks** – These tracks keep the machine narrow to fit through tight spaces, or to fit between the fenders of some trailers. Narrow tracks also provide the highest traction and pushing force.

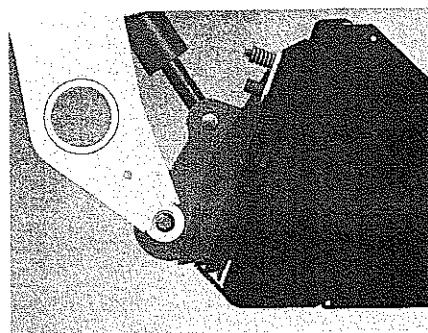
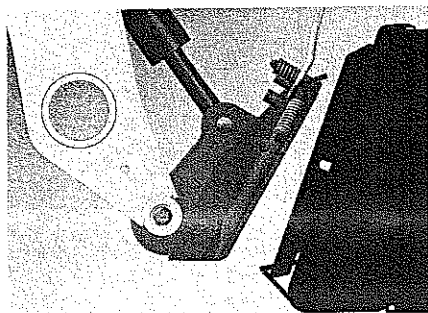
**Wide Tracks** – Wide tracks are the best option for sand and turf applications. These tracks make the machine wider and result in the lowest ground pressure and best flotation.

# Features For Attachment Operation

## Bob-Tach™

### Attachment Mounting System

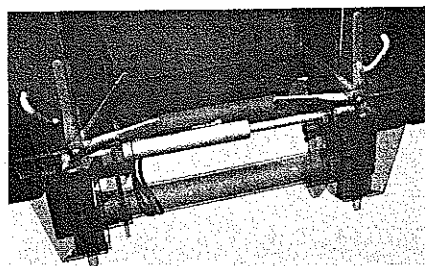
Change attachments in less than a minute! You can replace a bucket with a pallet fork, landscape rake, auger, grapple, and more than 70 Bobcat attachments quickly and easily with the Bob-Tach™ mounting system. Bobcat Company invented this system over 35 years ago, and it comes standard on all Bobcat loaders today.



## Power Bob-Tach™

### Powered Mounting System

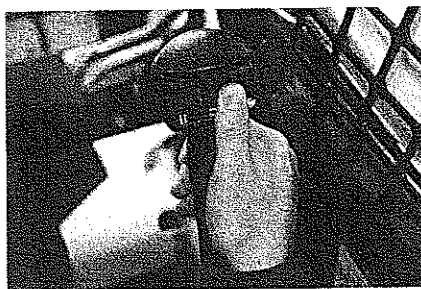
Change non-hydraulic attachments from the comfort of your cab - with the flip of a switch. You can swap a bucket with pallet forks without ever leaving your seat with the Power Bob-Tach mounting system.



## Fingertip Auxiliary Control

Bobcat control of attachment hydraulics leads the industry. Here are some of the exclusive features:

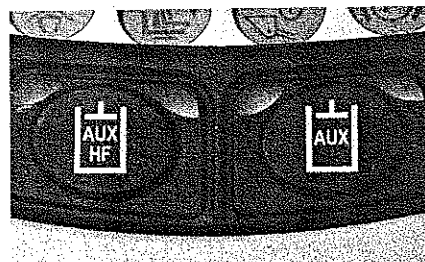
- **Fingertip Controls** make your attachment operation comfortable, controllable, and allow attachment adjustments while driving.
- **Detent Feature** - This function allows attachment flow to be engaged continuously without need to hold the switch. The flow can even be locked in the opposite direction - this Bobcat exclusive is handy for attachments like sweepers, soil conditioners, and tillers that can be operated in either direction.
- **Variable / Max Flow** - This selection allows variable, or "featherable" flow to be used for grapples and combination buckets to slowly move the cylinders, and a maximum flow rate to be used for an auger to quickly shake the dirt from the bit.



## High Flow Hydraulics

Need more attachment power? This optional system provides additional hydraulic power to boost production of attachments like the Bobcat Flail Cutter, Trencher, Planer, and Stump Grinder.

Machines with this option have two flow ranges so attachments that require lower flow can still be used by selecting standard flow mode. This is required for attachments like grapples, combination buckets, and dozer blades.

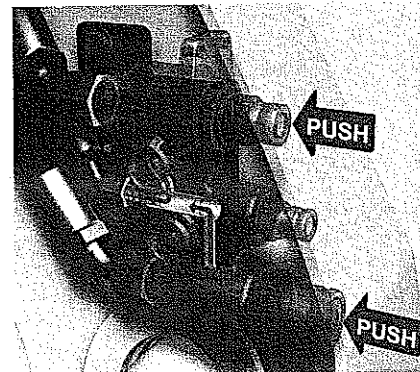


## Quick Couplers

### with pressure release

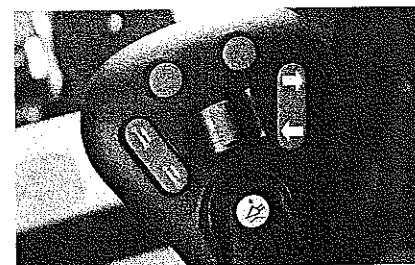
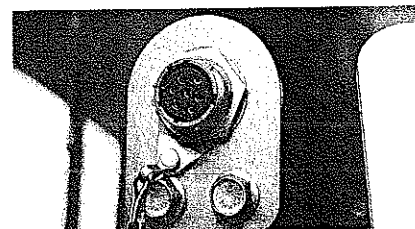
This unique design assures **hydraulic** attachment changes go quickly and smoothly.

Trapped line pressure can make attachment changes anything but quick. So Bobcat loaders come with a handy feature to release trapped pressure. By simply pushing the coupler inward, the hydraulic oil is released through a return line back into the machine. The result is clean, quick attachment changes time after time.



## Attachment Control Kit

Several attachments require control of more than one function. The Bobcat Attachment Control Kit allows fingertip control of these extra functions - so adjustments "on-the-fly" are easy to make. This kit is also fully integrated into the machine for a clean look and protected harness routing.



## Speed Management

### Want the ultimate in travel speed control?

Bobcat provides the only compact track loaders in the industry with Speed Management. By matching travel speed to your operation requirements, it maximizes attachment performance and gives you even more precise control of machine movements. Speed Management provides the following benefits when running many attachments:

Speed Management is included only with the Bobcat SJC™ control option (see the "Control Options" section for additional features of SJC).

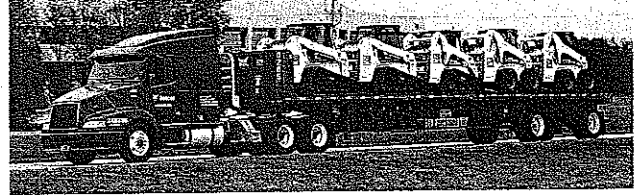
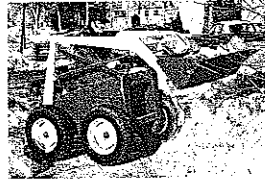
- Allows you to "dial in" your required travel speed in small increments from 0 to 7 mph.
- Increased daily production by reducing the chance of stalling the machine.
- Better fuel consumption as you complete more work in less time.
- Easier attachment hookup.
- Optimal productivity for attachments that require a slow travel speed.



# Bobcat History

## Pioneering Maneuverability:

Bobcat introduced its first compact loader in 1958 and two years later, the world's first skid-steer loader. This created an entire industry of machines that put the power of large equipment in a compact size with unmatched maneuverability.



## Offering More Versatility:

In 1970 Bobcat invented the first quick-change attachment system for skid-steer loaders called the Bob-Tach™ mounting system. Today we offer more attachments than anyone in the world empowering customers to transform all our machines into multi-task attachment carriers and reach higher levels of production.

## One Tough Animal:

All over the world, Bobcat equipment is known for being durable and dependable. By lasting longer and minimizing down time we help our customers become as successful as possible.

## Help When You Need It:

With 50 years of experience and over 550 locations we offer the best dealer network in the country for compact equipment. They offer a quality sales force, dependable parts department and qualified service technicians leading to a quality customer experience.



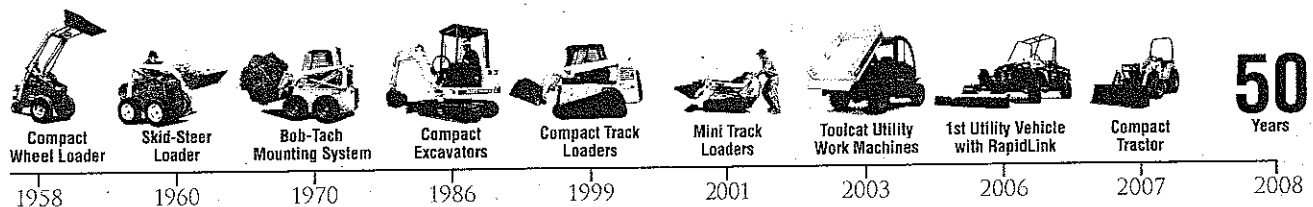
## Leader by Design:

Listening to the customer and a pioneering spirit is why Bobcat continues to lead the evolution of compact equipment...

- 1960** – Invented the **FIRST** true skid-steer loader.  
**Today** – One out of every two skid-steers is a Bobcat loader.
- 1970** – Invented the **FIRST** attachment mounting system for skid-steer loaders.  
**Today** – Bobcat Company manufactures more attachments than anyone in the world.
- 1977** – Built the **FIRST** skid-steer with no chain adjustments required.  
**Today** – Still a Bobcat exclusive.
- 1981** – The **FIRST** secondary restraint seat bar is introduced.  
**Today** – Bobcat is the only company that offers operator training kits for compact equipment.
- 1983** – The **FIRST** skid-steer with a transversely mounted engine.  
**Today** – Still a Bobcat exclusive.
- 1990** – Introduced the **FIRST** compact excavator manufactured in the U.S.  
**Today** – Still the only compact excavator manufactured in the U.S.
- 1999** – Introduced the **FIRST** compact track loader with a solid-mounted undercarriage manufactured in the U.S.  
**Today** – One out of every two compact track machines is a Bobcat.
- 2001** – Invented the **FIRST** loader with all-wheel steer and skid-steer capabilities.  
**Today** – Still a Bobcat exclusive.
- 2003** – Revolutionized the way the world works with the invention of the Toolcat, the world's **FIRST** utility work machine – a cross between a pickup, attachment carrier and utility vehicle.  
**Today** – The Toolcat utility work machine—still the only one of its kind.
- 2006** – **FIRST** utility vehicle with RapidLink™ Attachment System.
- 2007** – Bobcat launches its new line of compact tractors.
- 2008** – Roller Suspension, the **FIRST** all-steel suspension system, is introduced.

## A Constant Innovator:

In the late 1950s, a turkey farmer needed help—so in 1958 we introduced what was to become the world's first skid-steer loader. We created an industry by listening to the needs of the customer. This focus is the same today. In 2000, a superintendent needed help—so we built the world's first Toolcat utility work machine. We continue to be a global leader in innovation by listening to our customers.



# BOBCAT TIMELINE

## Bobcat Compact Track Loaders



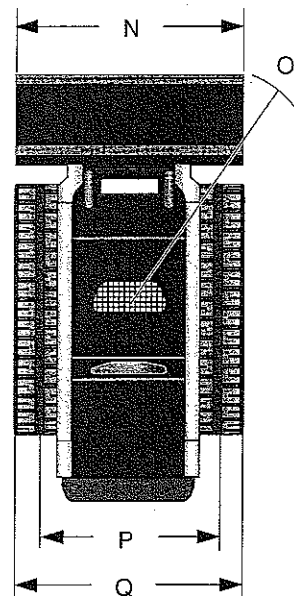
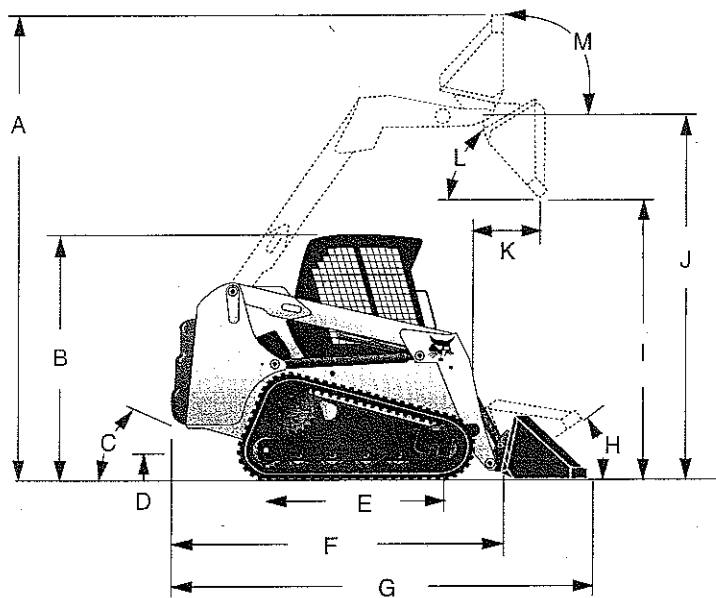
Loader	T140	T180	T190	T250	T300	T320
Rated Operating Capacity (ROC) (35% of Tipping Load)	1400 lb. (653 kg)	1800 lb. (816 kg)	1900 lb. (862 kg)	2500 lb. (1135 kg)	3000 lb. (1362 kg)	3100 lb. (1452 kg)
ROC at 50% of Tipping Load	2022 lb. (917 kg)	2666 lb. (1209 kg)	3426 lb. (1554 kg)	3679 lb. (1669 kg)	4604 lb. (2089 kg)	4604 lb. (2089 kg)
Tipping Load	4044 lb. (1834 kg)	5331 lb. (2418 kg)	6851 lb. (3108 kg)	7358 lb. (3338 kg)	9208 lb. (4177 kg)	9208 lb. (4177 kg)
ROC w/ opt Roller Suspension	—	—	—	2300 lb. (1043 kg)	2800 lb. (1270 kg)	2800 lb. (1270 kg)
Lift Height to Bucket Pin	9 ft. 2 in. (2.8 m)	9 ft. 7 in. (2.9 m)	9 ft. 10 in. (3.0 m)	10 ft. 2 in. (3.1 m)	10 ft. 9 in. (3.3 m)	10 ft. 9 in. (3.3 m)
Lift Arm Path	Radius	Radius	Vertical	Radius	Vertical	Vertical
<b>Size and Speed</b>						
Operating Weight	6660 lb. (3021 kg)	7367 lb. (3342 kg)	7612 lb. (3453 kg)	9347 lb. (4240 kg)	9702 lb. (4401 kg)	9702 lb. (4401 kg)
Width with bucket	56 in. (1422 mm)	68 in. (1727 mm)	68 in. (1727 mm)	80 in. (2032 mm)	80 in. (2032 mm)	80 in. (2032 mm)
Cab Height	77.4 in. (1967 mm)	76.3 in. (1938 mm)	76.3 in. (1938 mm)	80.9 in. (2055 mm)	80.9 in. (2055 mm)	80.9 in. (2055 mm)
Travel Speed	7.3 mph (11.8 km/hr.)	7.1 mph (11.4 km/hr.)	7.1 mph (11.4 km/hr.)	6.6 mph (10.6 km/hr.)	6.6 mph (10.6 km/hr.)	6.6 mph (10.6 km/hr.)
<b>Engine</b>						
Horsepower	49	66	66	81	81	92
Type	Diesel	Turbo Diesel	Turbo Diesel	Turbo Diesel	Turbo Diesel	Turbo Diesel
Fuel Tank Capacity	15 gal (50 L)	28 gal (106 L)	28 gal (106 L)	30 gal (114 L)	30 gal (114 L)	30 gal (114 L)
Dual Path Cooling System	Std	Std	Std	Std	Std	Std
Machine Shutdown Protection Feature	Std	Std	Std	Std	Std	Std
Bobcat SmartFAN™	Std	Std	Std	Std	Std	Std
Horsepower Management	Included with SJC Option (see option section for details)					
<b>Tracks/Undercarriage</b>						
Grease Cylinder Track Tensioning	Std	Std	Std	Std	Std	Std
Triple-Flange™ Rollers (per side)	3	4	4	5	5	5
Length of Track on Ground	48.4 in. (1230 mm)	55.2 in. (1401 mm)	55.2 in. (1401 mm)	63.7 in. (1618 mm)	63.7 in. (1618 mm)	63.7 in. (1618 mm)
Track Width - Standard	11.8 in. (300 mm)	12.6 in. (320 mm)	12.6 in. (320 mm)	17.7 in. (450 mm)	17.7 in. (450 mm)	17.7 in. (450 mm)
Ground Pressure (w/ std tracks)	5.2 psi	4.8 psi	4.9 psi	4.0 psi	4.2 psi	4.2 psi
Track Width - Optional	—	15.8 in. (400 mm)	15.8 in. (400 mm)	12.6 in. (320 mm)	12.6 in. (320 mm)	12.6 in. (320 mm)
Ground Pressure (w/ opt tracks)	—	4.0 psi	4.1 psi	5.6 psi	5.8 psi	5.8 psi
Roller Suspension	—	—	—	Opt	Opt	Opt
<b>Control Options</b>						
Bobcat Std (foot pedals / steering levers)	Std	Std	Std	Std	Std	Std
Advanced Control System (ACS)	Opt	Opt	Opt	Opt	Opt	Opt
Selectable Joystick Controls (SJC)	Opt	Opt	Opt	Opt	Opt	Opt
<b>Machine Features</b>						
Operating Lights	Std	Std	Std	Std	Std	Std
Bobcat Interlock Control System (BICS)	Std	Std	Std	Std	Std	Std
ROPS / FOPS Approved Cab Structure	Std	Std	Std	Std	Std	Std
Suspension Seat	Std	Std	Std	Std	Std	Std
Cab with Heat	Opt	Opt	Opt	Opt	Opt	Opt
Cab with Heat & Air Conditioning	—	Opt	Opt	Opt	Opt	Opt
Sound Reduction Package	Opt	Opt	Opt	Opt	Opt	Opt
Deluxe Instrumentation	Opt	Opt	Opt	Opt	Opt	Opt
Back-up Alarm & Horn	Opt	Opt	Opt	Opt	Opt	Opt
Keyless Start System	Opt	Opt	Opt	Opt	Opt	Opt
Hydraulic Bucket Positioning	Opt	Opt	Opt	Opt	Opt	Opt
Ride Control	—	Opt	Opt	Opt	Opt	Opt

Check with your local dealer about additional options and accessories



## Features For Attachments

	T140	T180	T190	T250	T300	T320
Bob-Tach™ Mounting System	Std	Std	Std	Std	Std	Std
Power Bob-Tach™	Opt	Opt	Opt	Opt	Opt	Opt
Hydraulic Standard Flow	16.9 gpm (64 L/min.)	16.9 gpm (64 L/min.)	16.9 gpm (64 L/min.)	21.2 gpm (80 L/min.)	21.2 gpm (80 L/min.)	21.2 gpm (80 L/min.)
Hydraulic High Flow (optional)	—	26.4 gpm (100 L/min.)	26.4 gpm (100 L/min.)	37.0 gpm (140 L/min.)	37.0 gpm (140 L/min.)	37.0 gpm (140 L/min.)
Hydraulic Pressure (standard)	2700 psi	3300 psi	3300 psi	3300 psi	3300 psi	3300 psi
Hydraulic Pressure (high flow)	—	—	—	—	—	3670 psi
Pressure Release Hyd Quick Couplers	Std	Std	Std	Std	Std	Std
Fingertip Auxiliary Control	Std	Std	Std	Std	Std	Std
Attachment Control Kit	Opt	Opt	Opt	Opt	Opt	Opt
Speed Management	————— Included with SJC Option (see attachment section for details) —————					

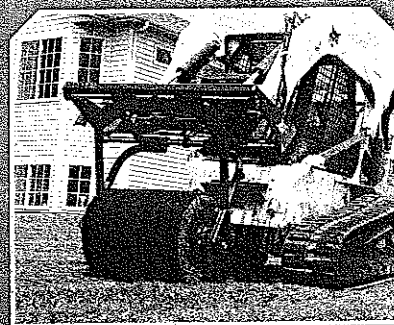


DIMENSIONS: Inches (mm)

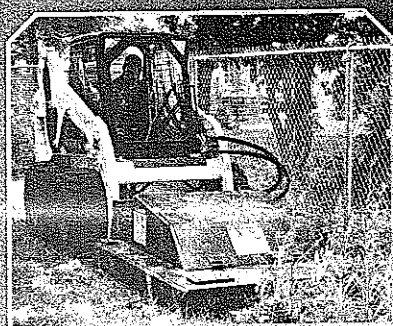
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
<b>T140</b>	143.5 (3645)	77.4 (1967)	30°	8.6 (220)	48.4 (1230)	95.8 (2432)	124.1 (3153)	25°	82.8 (2104)	109.6 (2783)	25.6 (649)	40°	96°	56 (1422)	77.2 (1960)	43.2 (1097)	55 (1397)
<b>T180</b>	148.0 (3759)	76.3 (1938)	30°	10.3 (262)	55.2 (1401)	101.8 (2586)	130.3 (3310)	25°	86.5 (2197)	114.5 (2908)	19.1 (484)	44°	92°	68 (1727)	78.8 (2001)	53.4 (1356)	66 (1676)
<b>T190</b>	152.1 (3862)	76.3 (1938)	30°	10.3 (262)	55.2 (1401)	101.8 (2586)	130.3 (3310)	25°	91.0 (2310)	118.2 (3002)	30.9 (784)	42°	95°	68 (1727)	78.8 (2001)	53.4 (1356)	66 (1676)
<b>T250</b>	156.6 (3978)	80.9 (2055)	34°	9.6 (244)	63.7 (1618)	114.9 (2918)	142.9 (3630)	30°	95.4 (2423)	122.4 (3109)	23.8 (605)	41°	90°	80 (2032)	82.4 (2093)	60.3 (1532)	78 (1981)
<b>T300</b>	160.6 (4079)	80.9 (2055)	34°	9.6 (244)	63.7 (1618)	114.9 (2918)	142.9 (3630)	30°	99.1 (2517)	128.8 (3272)	36.5 (927)	42°	96°	80 (2032)	84.2 (2139)	60.3 (1532)	78 (1981)
<b>T320</b>	160.6 (4079)	80.9 (2055)	34°	9.6 (244)	63.7 (1618)	114.9 (2918)	142.9 (3630)	30°	99.1 (2517)	128.8 (3272)	36.5 (927)	42°	96°	80 (2032)	84.2 (2139)	60.3 (1532)	78 (1981)

NOTE — Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. Pictures of Bobcat loaders may show other than standard equipment. All dimensions are given for loader equipped with standard tracks. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses. Bobcat Company complies with the requirements of ISO 9001 as registered with BSI.

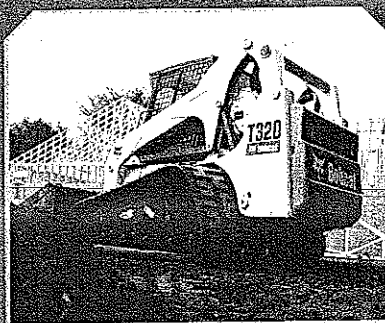
# The leader in versatility and maneuverability.



Attachments



Skid-Steer Loaders



Compact Track Loaders



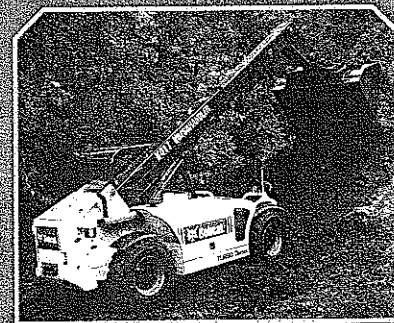
All-Wheel Steer Loader



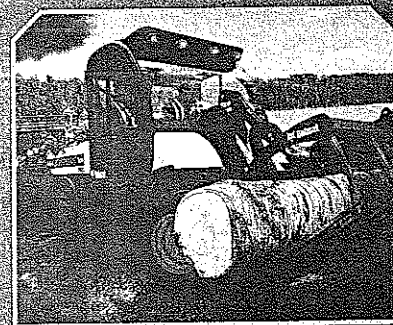
Compact Excavators



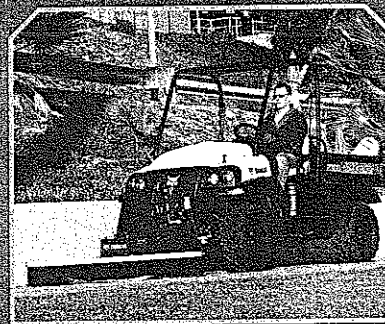
Mini Track Loaders



VersaHandler® Telescopic Tool Carriers



Toolcat® Utility Work Machines



Utility Vehicles



Compact Tractors



## Get Bobcat Gear!

Find cool Bobcat® gear and accessories by visiting your local Bobcat dealer or [www.BobcatStore.com](http://www.BobcatStore.com)

Bobcat Company  
P.O. Box 6000 • West Fargo, ND 58078  
[www.bobcat.com](http://www.bobcat.com)





# State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or** 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
4. **Application is made for 5% resident vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Robert S Advantage Valley Signed: [Signature]

Date: 4-14-10 Title: Robert Specialist

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. DNR 216174

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Bogart of Advantage Valley / Jefferts Corp.

Authorized Signature: [Signature] Date: 4/13/10

State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 13 day of APRIL, 2010.

My Commission expires MAY 22, 2015.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

