T190 Compact Track Loader Specifications

### Dimensions

A) Operating Height ................................... 152.1" (3862 mm)
B) Height with Operator Cab ..................... 76.3" (1938 mm)
C) Angle of Departure ............................. 30°
D) Ground Clearance ................................ 8.1" (205 mm)
E) Ground Contact Length ......................... 55.2" (1401 mm)
F) Length without Attachment .................... 101.9" (2588 mm)
G) Length with Standard Bucket ................ 130.3" (3309 mm)
H) Rollback @ Carry Position ..................... 25°
I) Dump Height with Standard Bucket .......... 91.0" (2310 mm)
J) Dump Reach @ Maximum Height .............. 30.9" (785 mm)
K) Height to Bucket Hinge Pin .................... 118.2" (3002 mm)
L) Dump Angle @ Maximum Height ................ 42°
M) Rollback Fully Raised
   @ Maximum Height ................................ 95°
   Carry Position .................................. 6.6" (167 mm)

0) Turning Radius
   with 68 in. Bucket .............................. 78.8" (2001 mm)
   with 74 in. Bucket .............................. 80.2" (2037 mm)
   Rear Clearance of Machine .................. 62.2" (1579 mm)
Q) Width (over tracks) ......................... 12.6 in. tracks ........................ 66.0" (1676 mm)
                                             15.8 in. tracks ...................... 73.9" (1877 mm)
P) Track Tread .................................... 12.6 in. tracks .................... 53.4" (1356 mm)
                                             15.8 in. tracks .................... 53.4" (1356 mm)
N) Width over Bucket ............................ 68 in. Bucket ..................... 68.0" (1727 mm)
                                             74 in. Bucket ..................... 74.0" (1880 mm)

### Performance

Rated Operating Capacity (ISO 14397- no more than 35% of Tipping Load) ....................... 1900 lbs. (862 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) ............................ 3426 lbs. (1554 kg)
Tipping Load (ISO 14397-1) .......................... 6851 lbs. (3108 kg)
Operating Weight (SAE) ................................ 7612 lbs. (3453 kg)
Operating Weight (wide track option) .......... 7934 lbs. (3599 kg)
Travel Speed ........................................... 7.1 mph (11.4 km/hr)
Lift Breakout Force (SAE) ........................... 4700 lbs. (2132 kg)
Tilt Breakout Force (SAE) ........................... 4450 lbs. (2018 kg)
Push Force ............................................ 4700 ft-lbs. (2132 kg)
**Engine/Electrical**

Make/Model .................................... Kubota/V2403M-DI-T
Fuel/Cooling .................................... Diesel/Liquid
Horsepower (SAE Gross) ............... 66 HP (49.2 kW)
Horsepower (SAE Net) ................... 61 HP (45.5 kW)
Maximum Governed RPM ............... 2700 RPM
Torque @ 1475 RPM (SAE Net) ...... 155.6 ft–lbs. (211 Nm)
Number of Cylinders ....................... 4
Displacement .................................. 158.7 cu. in. (2.6 L)
Bore/Stroke ..................................... 3.43 / 4.03 in. (87.1 / 102.4 mm)
Fuel Consumption ........................... 2.08 gph (7.87 L/h)

Estimated fuel consumption is based on testing by Bobcat Company in high duty cycle digging applications.

Lubrication ...................................... Pressure System with Filter
Crankcase Ventilation ..................... Open
Air Cleaner ...................................... Dry replaceable cartridge with safety element
Ignition............................................. Diesel-Compression
Engine Coolant ............................... Propylene glycol/water mix (53%-47%) with freeze protection to -34°F (-37°C)
Starting Aid ..................................... Glow plugs
Alternator ........................................ Belt driven; 90 amps; Ventilated
Battery ............................................ 12 volt; 600 cold cranking amps @ 0°F (-18°C); 115 minute reserve capacity
Starter ............................................. 12 volt, gear reduction type; 3.62 HP (2.7 kW)

**Hydraulic System**

Pump Type .............................................. Engine Driven, gear type
Pump Capacity
  Standard........................................ 16.3 GPM (61.6 L/min) @ 3028 RPM
  High Flow Option .................. 25.5 GPM (96.4 L/min) @ 3028 RPM
System Relief @ Quick Couplers .......... 3250 - 3350 PSI (224 - 231 Bar)
Hydraulic Filter ....................................... Full flow replaceable, Number 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) .................. 2.50 in. (63.5 mm)
- Tilt Cylinder (2) .................... 2.75 in. (69.8 mm)

**Rod Diameter**
- Lift Cylinder (2) .................. 1.50 in. (38.1 mm)
- Tilt Cylinder (2) .................... 1.375 in. (34.9 mm)

**Stroke**
- Lift Cylinder (2) .................. 23.67 in. (601.2 mm)
- Tilt Cylinder (2) .................... 13.19 in. (335.0 mm)

**Hydraulic Function Times**
- Raise Lift Arms .................. 3.7 Seconds
- Bucket Dump ...................... 2.4 Seconds
- Lower Lift Arms ................. 2.4 Seconds
- Bucket Rollback ............... 1.9 Seconds
Bobcat T190 Compact Track Loader Specifications

**Drive System**

Main Drive .................. Fully hydrostatic, rubber track drive
Transmission ................ Infinitely variable tandem hydrostatic piston pumps,
                           driving two fully reversing hydrostatic motors
Tracks .......................... 12.6 in. width (320 mm) or optional 15.8 in. width (400 mm)
                           Tension-grease cylinder and spring rollers–triple flange

**Ground Pressure**

<table>
<thead>
<tr>
<th>Width</th>
<th>PSI</th>
<th>Pressure (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.6 in.</td>
<td>4.9</td>
<td>33.7</td>
</tr>
<tr>
<td>15.8 in.</td>
<td>4.1</td>
<td>28.3</td>
</tr>
</tbody>
</table>

**Capacities**

- Fuel Tank ............................... 28 gals. (106 L)
- Cooling System ........................... 11 qts. (10.4 L)
- Engine Oil with Filter .................. 9.5 qts. (9 L)
- Hydraulic/Hydrostatic Reservoir ...... 4.8 gals. (18.2 L)
- Hydraulic/Hydrostatic System ......... 8.5 gals. (32.2 L)
- Roller & Idlers .......................... 100 cc each

**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)
  - 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 ........................... Glow Plugs – 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 .......................... Finger-operated rocker switch on center control panel with
                                      spring applied, pressure release multi disk 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
- Fuel fill
- Hydraulic oil fill
- Starter

Bobtach pivots have replaceable wear bushings
Easy access to all lift arm grease points
Rod end of the tilt cylinder 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
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**
- Advanced Control System (ACS)
- Engine Oil Pressure
- Engine Coolant Temperature
- Fuel Level

**Indicators**
- Attachment Control Device
- BICS Functions
- Glow Plugs

### 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:**

### Attachments

- Angle Broom*
- Auger
- Backhoe
- Box Blade
- Brush Saw
- Brushcat Rotary Cutter
- Buckets
- Chipper*
- Combination Bucket
- Concrete Mixer*
- Digger
- Dozer Blade*
- Drop Hammer
- Dumping Hopper
- Flail Cutter
- Grapple, Farm/Utility
- Grapple, Industrial
- Hydraulic Breaker
- Landplane
- Landscape Rake
- Mower
- Pallet Fork - Standard
- Pallet Fork - Hydraulic
- Planer*
- Scarifier
- Scraper
- Snow Blade
- Snow V-Blade*
- Snowblower*
- Sod Layer
- Soil Conditioner*
- Spreader
- Stump Grinder*
- Sweeper
- Three-Point Hitch
- Tiller
- Tree Spade
- Trench Compactor
- Trencher
- Utility Forks
- Utility Frame

*Requires Attachment control Kit

For specific attachment model availability see [Bobcat Product Price List](#).
### 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
- 16 inch rubber tracks

### 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
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.

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 Object Protective Structure (FOPS). Level II option is available.

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.

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.

Backup Alarm (Opt.) For use in jobs with low visibility.

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.

These optional videotapes and training courses are available through Bobcat Parts.

**Bobcat Skid-Steer Loader Operator Training Course**
4-hour course provides video, classroom and hands-on training (also available in Spanish)

**Bobcat Skid-Steer Loader Service Safety Training Course**
2-hour course provides video, classroom and hands-on training

**Bobcat Skid-Steer Loader Safety Video**
Short and to-the-point video provides basic safety instructions for the Skid-Steer Loader.