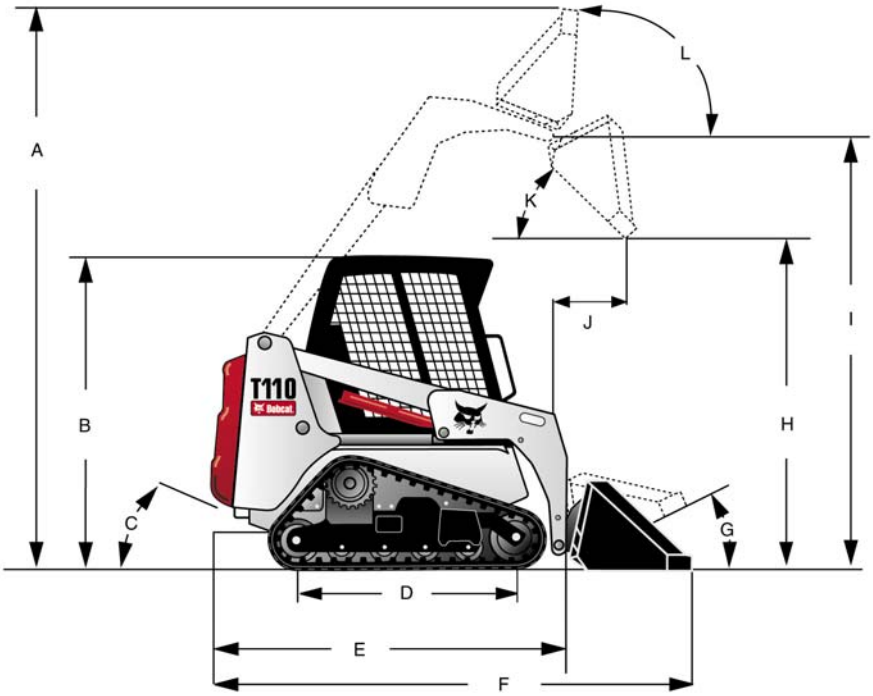
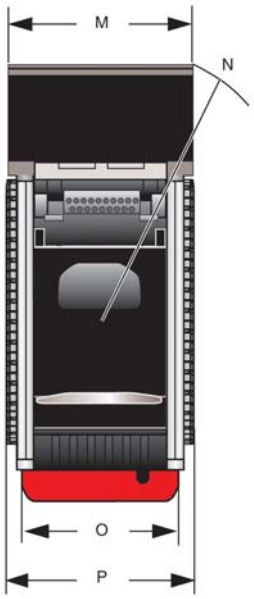
T110 Compact Track Loader Specifications

Dimensions





A) Operating Height ..... 136.8" (3474 mm)
B) Height with Operator Cab ..... 74.1" (1882 mm)
C) Angle of Departure ..... 37°
D) Ground Contact Length ..... 51.1" (1299 mm)
E) Length without Attachment ..... 89.1" (2263 mm)
F) Length with Standard Bucket ..... 117.0" (2972 mm)
G) Rollback @ Ground Position ..... 26°
H) Dump Height with Standard Bucket ..... 78.7" (1999 mm)
I) Height to Bucket Hinge Pin ..... 103.7" (2634 mm)
J) Dump Reach @ Maximum Height ..... 22.8" (579 mm)
K) Dump Angle @ Maximum Height ..... 41°
L) Rollback Fully Raised
@ Maximum Height ..... 95°

Carry Position ..... 9.1" (230 mm)
Ground Clearance.....6.24" (159 mm)

M) Width over Bucket
50" Bucket ..... 50.0" (1270 mm)
N) Turning Radius
with Standard Bucket ..... 72.9" (1852 mm)
Rear Clearance of Machine ..... 51.5" (1309 mm)
O) Track Tread
9.8 in. tracks ..... 37.4" (949 mm)
P) Width (over tracks)
9.8 in. tracks ..... 47.2" (1199 mm)

Performance

Rated Operating Capacity (SAE J732 - no more than 35% of Tipping Load) ..... 1100 lbs. (499 kg)
Operating Capacity (no more than 50% of Tipping Load) ..... 1595 lbs. (723 kg)
Tipping Load (ISO) ..... 3190 lbs. (1447 kg)
Operating Weight (SAE) ..... 5202 lbs. (2360 kg)
Travel Speed - standard ..... 5.2 mph (8.4 km/hr)
Travel Speed - SJC with 2 speed - optional ..... 5.2/8.4mph (8,4/13,5 km/hr)
Lift Breakout Force (SAE) ..... 2473 lbs. (1122 kg)
Tilt Breakout Force (SAE) ..... 2360 lbs. (1071 kg)
Push Force ..... 3147 lbs. (1428 kg)

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

Engine/Electrical

Make/Model	Kubota/V2403-M-DI-E3B Interim Tier IV
Fuel/Cooling	Diesel/Liquid
Horsepower (SAE Gross)	41.8 HP (31.2 kW)
Rated Engine Speed	2200 RPM
Torque @ 1400 RPM (SAE Net)	110.9 ft–lbs. (150.4 Nm)
Number of Cylinders	4
Displacement	148.5 cu. in. (2.4 L)
Bore/Stroke	3.425 / 4.03 in. (87 / 102 mm)
Fuel Consumption	1.3 gph (4.9 L/h) Estimated fuel consumption is based on testing by Bobcat Company in high duty cycle digging applications.
Lubrication	Gear Pump Pressure System with Filter
Crankcase Ventilation	Closed Breathing
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 @ 25 amps
Starter	12 volt, gear reduction type; 3.6 HP (2.7 kW)

Hydraulic System

Pump Type	Engine Driven, gear type
Pump Capacity, Standard Flow	12.5 GPM (47.5 L/min) @ 3124 RPM
System Relief @ Quick Couplers	3000 PSI (206 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 manually 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)	2.00 in. (50,8 mm)
Tilt Cylinder (2)	2.25 in. (57.2 mm)

Rod Diameter

Lift Cylinder (2)	1.25 in. (31,8 mm)
Tilt Cylinder (2)	1.25 in. (31.8 mm)

Stroke

Lift Cylinder (2)	25.73 in. (653.5 mm)
Tilt Cylinder (2)	11.89 in. (302 mm)

Hydraulic Function Times

Raise Lift Arms	3.0 Seconds	Bucket Dump	1.6 Seconds
Lower Lift Arms	1.9 Seconds	Bucket Rollback	1.3 Seconds

Drive System

Main Drive ..... Fully hydrostatic, rubber track drive
Transmission ..... Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
Tracks ..... 9.8 in. width (250 mm)
Tension-grease cylinder and spring, rollers–triple flange

Ground Pressure

Ground Pressure ..... 4.6 PSI (31.4 kPa)

Capacities

Fuel Tank ..... 11.9 gals. (45.2 L)
Cooling System ..... 11.6 qts. (11.0 L)
Engine Oil with Filter ..... 6.7 qts. (6.3 L)
Hydraulic/Hydrostatic Reservoir . 3.35 gals. (13.0 L)
Hydraulic/Hydrostatic System ..... 6.3 gals. (24.0 L)

Controls

Vehicle Steering ..... Direction and speed controlled by two hand levers or optional joystick(s)
Loader Hydraulics
- Lift & Tilt ..... Controlled by separate foot pedals or optional Selectable Joystick Controls (SJC)
- Front Auxiliary (Std.) ..... Controlled by lateral movement of Right Hand (RH) steering lever or optional ..... Right Hand (RH) Selectable Joystick Control

Auxiliary Pressure Release ..... Lateral movement of Right Hand (RH) steering lever with engine off, key on and auxiliary hydraulics engaged or optional front coupler block
Engine ..... Hand lever throttle; key-type starter switch and shutdown
Starting Aid ..... Glow Plugs – automatically activated as needed by 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 mechanical 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
- Fuel 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

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

Indicators

Auxiliary Hydraulics
BICS Functions
Lights
Parking Brake
Seat Belt

Display Screen

Battery Voltage
Engine Preheat Countdown
Engine RPM
Hourmeter
Maintenance Clock
Service Codes

Warning Lights

Engine Coolant Temperature
Engine Malfunction
General Warning
Hydraulic System Malfunction
Seat Belt

ATTACHMENTS

Angle Broom*
Auger
Backhoe
Brush Saw
Buckets
Digger
Dumping Hopper
Hydraulic Breaker
Landplane
Mower
Scarifier
Scraper
Snow Blade
Snow V-Blade*
Snowblower*
Soil Conditioner-manual
Soil Conditioner-hydraulic*
Sweeper
Three-Point Hitch
Tiller
Tree Fork
Trencher
Utility Forks
X-Change Frame

*** Requires Attachment Control Kit**
For specific model availability - See *Bobcat Product Price List*.

Factory Options

Cab Enclosure with Heater
Selectable Joystick Controls (SJC) with 2 Speed

Dealer Accessories

Attachment Control Kit
Cab Enclosure
Cab Enclosure (Vinyl)
Cab Heater
Catalytic Exhaust Purifier
Engine Block Heater
Externally Removable Rear Window
Fire Extinguisher Kit
FOPS Kit - Level II**
Four-point Lift Kit
Four-Way Flasher Light Kit
Hydraulic Bucket Positioning
Locking Fuel Cap
Rotating Beacon Light
Seat Belt-3 inch wide
Side Windows Kit
Single-point Lift Kit
Special Applications Kit
Strobe Light Kit
Tailgate Lock Kit

Standard Features

Adjustable Vinyl Suspension Seat
Auxiliary Hydraulics
Backup Alarm
Bob-Tach
Bobcat Interlock Control System (BICS)
Controls: Bobcat Standard
Deluxe Operator Cab*
(Includes: Interior Cab Foam, Top and Rear Windows, Dome Light and Electrical Power Port)
Glow Plugs (Automatically Activated)
Horn
Instrumentation (See Page 4)
Lift Arm Support
Lights, Front & Rear Work
Parking Brake
Seat Bar
Seat Belt
Spark Arrestor Muffler
Tracks: 9.8" (250mm)

*** Roll Over Protective Structure (ROPS)— Meets requirements of SAE-J1040 and ISO 3471**

****Falling Object Protective Structure (FOPS)— Meets requirements of SAE-J1043 and ISO 3449, Level 1**

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
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 (Std.)	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.

TRAINING RESOURCES

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