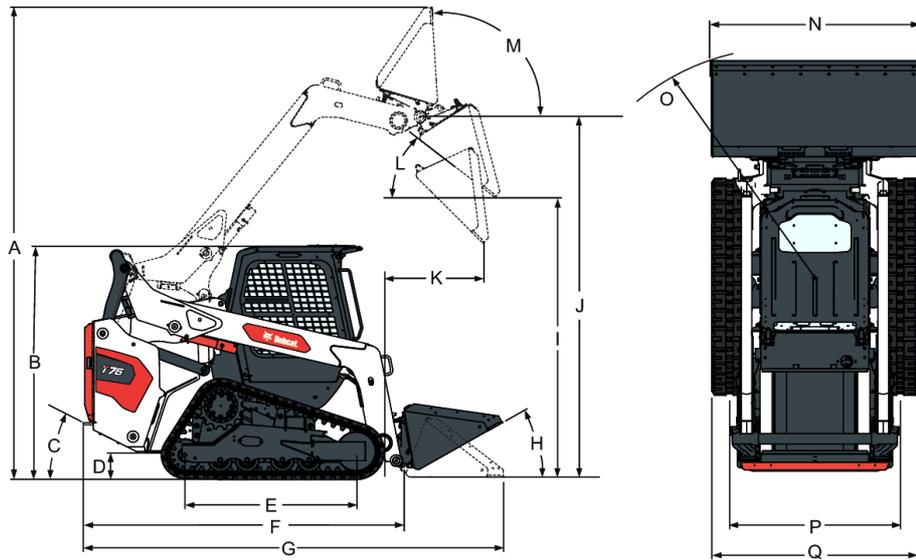


Dimensions



| | |
|---|-----------|
| (A) Operating height | 4251.8 mm |
| (B) Height with operator cab | 2078.7 mm |
| (C) Angle of departure | 27.0° |
| (D) Ground clearance | 234.5 mm |
| (E) Ground contact length | 1504.9 mm |
| (F) Length without attachment | 2893.8 mm |
| (G) Length with standard bucket | 3736.6 mm |
| (H) Rollback at ground position | 30.0° |
| (I) Dump height with standard bucket | 2526.1 mm |
| (J) Height to bucket hinge pin | 3258.5 mm |
| (K) Dump reach at maximum height | 1014.0 mm |
| (L) Dump angle at maximum height | 37.0° |
| (M) Rollback fully raised at maximum height | 94.0° |
| (N) Width with standard bucket | 2032.0 mm |
| (O) Turning radius with standard bucket | 2300.5 mm |
| (P) Track, 450 mm tracks | 1531.1 mm |
| (Q) Width over tracks, 450 mm tracks | 1981.1 mm |

Machine Rating

| | |
|--|-----------|
| Lift breakout force | 3544 daN |
| Tilt breakout force | 2871 daN |
| Ground pressure | 30.00 kPa |
| Rated operating capacity (ISO 14397-1) | 1426 kg |
| Push force | 3544 daN |
| Tipping load (ISO 14397-1) | 4050 kg |

Cycle Times

| | |
|-----------------|-------|
| Raise lift arms | 3.9 s |
| Lower lift arms | 2.6 s |
| Bucket rollback | 1.7 s |
| Bucket dump | 2.3 s |

Weights

| | |
|------------------|-----------|
| Operating weight | 5051 kg |
| Shipping weight | 4394 kg |
| Ground pressure | 43.00 kPa |

Engine

| | |
|---------------------------------------|---|
| Make / Model | Bobcat 2.4L, 97/68 EC Stage V |
| Fuel | Diesel |
| Cooling | Liquid |
| Power at 2600 RPM | 54.5 kW |
| Torque at 1800 RPM (SAE J1995 Gross): | 283.9 Nm |
| Number of cylinders | 4 |
| Displacement | 2400 cm ³ |
| Bore | 90.0 mm |
| Stroke | 94.0 mm |
| Lubrication | Gear pump pressure |
| Crankcase ventilation | Closed breathing |
| Air filter | Dry replaceable cartridge with safety element |
| Ignition | Diesel-compression |
| Starting aid | Glow plugs |

Electrical

| | |
|------------|--|
| Alternator | Belt driven - 90 A - open |
| Battery | 12 V - 1000 A cold cranking at -18 °C - 180 min reserve capacity |
| Starter | 12 V - gear reduction type - 3.0 kW |

Hydraulic System

| | |
|---------------------------------------|---|
| Pump type | Engine driven, gear type |
| Pump capacity | 88.10 L/min |
| Pump capacity (with high flow option) | 114.70 L/min |
| System relief at quick couplers | 23.8-24.5 MPa |
| Control valve | Three-spool, open-centre type with float detent on lift and electrically controlled auxiliary spool |
| Hydraulic filter | Full-flow replaceable - 10 µm synthetic media element |
| Fluid lines | SAE standard tubelines, hoses, and fittings |

Hydraulic Cylinders

| | |
|----------------------|--|
| Lift cylinder (2) | Double-acting |
| Lift cylinder bore | 76.2 mm |
| Lift cylinder rod | 44.5 mm |
| Lift cylinder stroke | 633.2 mm |
| Tilt cylinder (2) | Double-acting with cushioning feature on dump and rollback |
| Tilt cylinder bore | 76.2 mm |
| Tilt cylinder rod | 38.1 mm |
| Tilt cylinder stroke | 354.8 mm |

Drive System

| | |
|--------------|---|
| Transmission | Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors |
| Tracks | 450 mm wide. Tension-grease cylinder and triple-flange spring rollers |
| Main drive | Fully hydrostatic, rubber track drive |

Traction

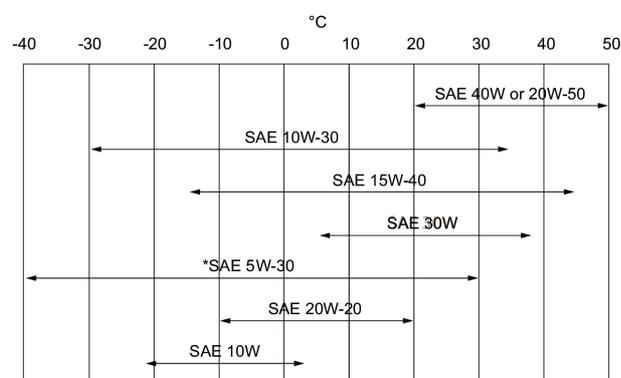
| | |
|---|---------------------|
| Tracks | 450 mm wide, rubber |
| Max. travel speed (high range – optional) | 14.8 km/h |
| 2 Speed | 17.2 km/h |

Fluid Capacities

| | |
|--------------------------------|----------|
| Cooling system with heater | 11.70 L |
| Cooling system without heater | 11.40 L |
| Engine oil with filter | 9.20 L |
| Fuel tank | 120.00 L |
| Hydraulic reservoir | 10.20 L |
| Hydraulic / Hydrostatic system | 45.00 L |

Fluid Specifications

| | |
|----------------|--|
| Engine coolant | Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C 5 L can - 6904844A, 25 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D |
| Engine oil | Oil must meet API Service Classification of CJ-4 or better, or ACEA E9-12 or better. Recommended SAE viscosity number for anticipated temperature range. |



* Can be used only when available with appropriate diesel rating.

For synthetic oil use the recommendation from the oil manufacturer.

| | |
|-----------------|---|
| Hydraulic fluid | Bobcat Superior SH, 5 L can - 6904842A, 25 L container - 6904842B, 209 L drum - 6904842C, 1000 L tank - 6904842D Bobcat Bio Hydraulic, 5 L can - 6904843A, 25 L container - 6904843B, 209 L drum - 6904843C, 1000 L tank - 6904843D Motor oil is not an acceptable alternative fluid. |
|-----------------|---|

Controls

| | |
|--|--|
| Engine Starting | Hand lever throttle Key-type starter switch and shutdown or optional keyless start. Air intake heater automatically activated by Standard or Deluxe instrument panel |
| Front auxiliary (standard) Loader hydraulics tilt and lift Service brake | Proportional switch on Selectable Joystick Controls (SJC) Selectable Joystick Controls (SJC) Two independent hydrostatic systems controlled by two hand-operated steering levers |
| Secondary brake Parking brake | One of the hydrostatic transmissions Mechanical disc, hand operated rocker-switch on dash panel |
| Vehicle steering | Direction and speed controlled by Selectable Joystick Controls (SJC) |
| Auxiliary pressure release | Pressure is relieved through the coupler block. Push in and hold for 5 s. |
| Rear auxiliary (optional) | Electrical switch on left-hand steering lever |

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 audible alarm and visual warning lights.

Standard Instrument Panel

- Gauges
 - Engine temperature
 - Fuel
- Indicators
 - Bobcat Interlock Control System
 - Engine preheat
 - Two speed
 - Turn signals
- Warning lights
 - Engine temperature
 - Fuel level
 - General warning
 - Seat belt
 - Seatbar down
 - Engine malfunction
 - Hydraulic system malfunction
 - Lift and tilt valve, hydraulics lock-out
 - Parking brake
 - Hydraulic oil temperature
 - Engine oil pressure
 - Hydraulic oil pressure
- Buttons
 - Work lights and road lights
 - High flow auxiliary hydraulics
 - Auxiliary hydraulics
 - Information (Hour meter, Engine RPM, Battery voltage, Service codes, Service reminder)
 - Traction lock override
 - Press to operate loader
- Rocker switch
 - Parking brake
- Alarm
 - Beep when error, warning or shutdown condition exists

Deluxe Instrument Panel

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

- Gauges
 - Engine oil pressure / temperature
 - Hydrostatic charge pressure
 - Hydraulic oil temperature
 - Battery

- Additional features
 - Keyless start with password capability
 - Digital clock, date and time
 - User name and hourmeter
 - Attachment control information
 - Current job hours
 - High Flow lockouts
 - Multi-language display
 - Help screens
 - Diagnostic capability
 - Engine/hydraulic systems shutdown function
 - Password lockout
- Icons
 - Active warnings
 - Vitals (Engine speed, Oil Pressure, Temperature, System voltage, Hydraulic charge pressure, Oil temperature)
 - Service
 - Main screen
 - Attachments
 - Security
 - Display
- Buttons
 - Left scroll
 - Enter
 - Right scroll

Serviceability

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

- Air filter
- Alternator
- Battery
- Cooling system (engine oil and hydraulic oil coolers easily separable for cleaning)
- Engine oil and fuel filters
- Engine oil drain and dipstick
- Hydraulic oil fill and filter (access at the upper right side of the machine)
- Starter

Access available via the side of the machine:

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

Bob-Tach™ pivots have replaceable wear bushings

Standard Features

- Selectable Joystick Controls (SJC)
- Deluxe pressurized cab with HVAC
- Adjustable suspension seat
- 3 Point Seat belt
- Seat bar
- Two Speed Travel
- Auxiliary hydraulics: variable flow/maximum flow
- High flow hydraulics

- Dual Direction Bucket Positioning (including ON/OFF switch)
- 5" Deluxe Instrumentation (Radio Ready)
- Key start
- Backup Alarm
- Horn
- LED Working Lights front and rear
- Parking brake
- Bob-Tach™ Attachment System
- Bobcat Interlock Control System (BICS)
- Engine/hydraulics system shutdown
- Manual
- Lift arm support
- Spark arrestor muffler
- 450mm Wide Rubber Tracks
- Machine IQ (telematic)
- Warranty: 24 months or 2000 hours, whichever occurs first

Options

- Factory Options
 - Clear View Cab
 - Auto HVAC
 - 7" Touch Display (Integrated Bluetooth, Hands Free Calling, Radio, Reversing Camera)
 - Torsion Suspension – 5 Link System
 - Radio
 - Reversing Camera
 - Auto Ride Control
 - Reversible Fan
 - Power Bob-Tach™
 - 450mm Wide – Multi Bar Lug Tracks
 - Heated Cloth Air ride seat with 3 point seat belt
 - Beacon
 - Strobe

- Dealer Installed Options
 - Special applications front door kit
 - Engine block heater kit
 - Deluxe instrument panel
 - Lexan rear window kit
 - Fresh air heater kit
 - 200/300 lbs (74.4/119.9 kg) counterweight kit
 - Bucket positioning kit
 - Plumbing kit for fresh air heater
 - Back up alarm kit
 - FOPS kit **
 - Single-point lift kit
 - Keyless kit
 - Power Bob-Tach™ kit
 - Road kit
 - Rotating beacon kit
 - Fire extinguisher kit
 - Catalytic purifier kit
 - Air conditioning kit
 - Radio kit
 - Pre-cleaner HP aspiration kit
 - 7-pin attachment control kit (standard with T650H)
 - Four-point lift kit
 - Rear auxiliary hydraulic kit

Attachments

- Angle Brooms
- Auger Accessories
- Augers
- Backhoe Accessories
- Backhoes
- Bale Forks
- Box Blades
- Breaker Accessories
- Breakers
- Brushcat™ Rotary Cutters
- Brush Saws
- Combination Buckets
- Concrete Mixers
- Concrete Pumps
- Construction / Industrial Buckets
- Dozer Blades
- Drop Hammers
- Dumping Hoppers
- Fertilizer and Grain Buckets
- Flail Cutters
- Forestry Cutters
- Graders
- Grapples, Industrial
- Landplanes
- Landscape Rakes
- Laser Equipment
- Pallet Fork Accessories
- Pallet Forks, Hydraulic
- Planer Accessories
- Planers
- Root Grapples
- Rotary Grinders
- Sand Cleaners
- Scarifiers
- Scrapers
- Silt Fence Installers
- Skeleton Buckets
- Snow & Light Material Buckets
- Snow Blades
- Snow Pushers
- Snow V-Blades
- Sod Layers
- Soil Conditioners
- Spreaders
- Stump Grinders
- Sweepers
- Tillers
- Tree Transplanters
- Trench Compactors
- Trenchers
- Utility Forks
- Utility Frames

- Low Profile Buckets
- Miscellaneous
- Mixing Buckets
- Mowers
- Vibratory Rollers
- Wheel Saws
- Whisker Brooms
- Wood Chippers

Environmental

| | |
|---|-----------------------|
| Operator LpA (98/37 & 474-1) | 78 dB(A) |
| Noise level LWA (EU Directive 2000/14/EC) | 103 dB(A) |
| Whole body vibration (ISO 2631-1) | 0.71 ms ⁻² |
| Whole body vibration (ISO 2631-1) uncertainty | 0.36 ms ⁻² |
| Hand-arm vibration (ISO 5349-1) | 1.84 ms ⁻² |

Safety

| | |
|--|--|
| Bobcat Interlock Control System (BICS), standard | Requires the operator to be seated in the loader with the seat bar 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 can be operated. |
| Lift arm bypass control, standard | Used to lower the lift arms in the event that the lift arms cannot be lowered during normal operating conditions. |
| Seat belt, standard | Should always be worn when operating the loader. Three-point shoulder belt provides restraint for high range speeds. |
| Seat bar, standard | Secondary operator restraint, also serves as an arm rest. |
| Operator cab, standard | An enclosed operator cab with side screens with a minimal inside cab width of 838 mm. 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. * 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, standard | Use for servicing when lift arms are raised. |
| Parking brake, standard | Always set brake when leaving loader. |
| Grab handles, standard | Should always be used when entering/exiting loader. |
| Safety tread, standard | Slip resistant tread on lift arms and main frame to be used when entering/exiting loader. |
| Attachment steps, standard | Should always be used when entering/exiting loader. |
| Rear window, standard | For emergency exit. |
| Front and rear work lights, standard | Use for indoor and low light operation. |
| Back-up alarm, optional | For use in areas with high traffic |
| Lift kits, optional | Lift kits are available so loader may be lifted into remote areas. |
| Special applications kit, optional | Restricts objects and material from entering cab openings. |
| Operator handbook, standard | Weather-resistant operator handbook as provided in the documentation kit. |