### S175 Skid-Steer Loader Specifications

#### Dimensions

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Operating Height</td>
<td>152.1” (3863 mm)</td>
</tr>
<tr>
<td>B) Height with Operator Cab</td>
<td>76.3” (1938 mm)</td>
</tr>
<tr>
<td>C) Angle of Departure</td>
<td>23°</td>
</tr>
<tr>
<td>D) Ground Clearance</td>
<td>7.5” (191 mm)</td>
</tr>
<tr>
<td>E) Wheelbase</td>
<td>40.6” (1030 mm)</td>
</tr>
<tr>
<td>F) Length without Attachment</td>
<td>101.8” (2586 mm)</td>
</tr>
<tr>
<td>G) Length with Standard Bucket</td>
<td>130.3” (3309 mm)</td>
</tr>
<tr>
<td>H) Rollback @ Carry Position</td>
<td>27°</td>
</tr>
<tr>
<td>I) Dump Height with Standard Bucket</td>
<td>91.0” (2310 mm)</td>
</tr>
<tr>
<td>J) Dump Reach @ Maximum Height</td>
<td>29.6” (752 mm)</td>
</tr>
<tr>
<td>K) Height to Bucket Hinge Pin</td>
<td>118.2” (3002 mm)</td>
</tr>
<tr>
<td>L) Dump Angle @ Maximum Height</td>
<td>42°</td>
</tr>
<tr>
<td>M) Rollback Fully Raised @ Maximum Height</td>
<td>95°</td>
</tr>
<tr>
<td>N) Width (over bucket)</td>
<td>62” Bucket (1575 mm)</td>
</tr>
<tr>
<td></td>
<td>68” Bucket (1727 mm)</td>
</tr>
<tr>
<td></td>
<td>74” Bucket (1880 mm)</td>
</tr>
<tr>
<td>O) Turning Radius with Standard Bucket</td>
<td>78.8” (2001 mm)</td>
</tr>
<tr>
<td></td>
<td>Rear Clearance of Machine</td>
</tr>
<tr>
<td>P) Wheel Tread</td>
<td>10-16.5” (1433 mm)</td>
</tr>
<tr>
<td></td>
<td>10-16.5 with offset rims</td>
</tr>
<tr>
<td></td>
<td>31.5x13-16.5 (1483 mm)</td>
</tr>
<tr>
<td>Q) Width (over tires)</td>
<td>66.0” (1676 mm)</td>
</tr>
<tr>
<td></td>
<td>60.0” (1524 mm)</td>
</tr>
<tr>
<td></td>
<td>71.6” (1818 mm)</td>
</tr>
</tbody>
</table>

#### Performance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Operating Capacity (SAE J732)</td>
<td>1750 lbs. (794 kg)</td>
</tr>
<tr>
<td>Rated Operating Capacity with Counterweight option</td>
<td>1850 lbs. (839 kg)</td>
</tr>
<tr>
<td>Tipping Load (SAE)</td>
<td>4126 lbs. (1472 kg)</td>
</tr>
<tr>
<td>Operating Weight (SAE)</td>
<td>6290 lbs. (2453 kg)</td>
</tr>
<tr>
<td>Travel Speed</td>
<td>7.3 mph (11.8 km/hr)</td>
</tr>
<tr>
<td>Lift Breakout Force (SAE)</td>
<td>3600 lbs. (1633 kg)</td>
</tr>
<tr>
<td>Tilt Breakout Force (SAE)</td>
<td>3550 lbs. (1610 kg)</td>
</tr>
<tr>
<td>Push Force</td>
<td>4300 lbs. (1950 kg)</td>
</tr>
</tbody>
</table>
**ENGINE/ELECTRICAL**

Make/Model .................................. Kubota/V2403-MDI-E3  
Fuel/Cooling .................................. Diesel/Liquid  
Horsepower (SAE Gross) .................. 49 HP (36 kW)  
Maximum Governed RPM .................. 2700 RPM  
Torque (SAE Net) ......................... 109.6 ft-lbs. (148,60 Nm) @ 1650 RPM  
Number of Cylinders .................... 4  
Displacement ................................. 148.5 cu. in. (2.4 L)  
Bore/Stroke .................................. 3.43/4.03 in. (87/102 mm)  
Fuel Consumption .......................... 1.8 gph (6,8 L/h)  

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

Lubrication .................................. Gear Pump Pressure  
Crankcase Ventilation ........................ Closed, breathing  
Air Cleaner .................................. Dry replaceable paper cartridge with safety element  
Ignition ........................................ Compression (Diesel)  
Engine Coolant .............................. Propylene glycol/water mix (53%-47%)  
with freeze protection to -34°F (-37°C)  
Starting Aid .................................. Glow plugs  
Alternator .................................... 90 amps; ventilated with internal regulator  
Battery ....................................... 12 volt; 600 cold cranking amps @ 0°F (-18°C);  
115 minute reserve capacity @ 25 amps  
Starter ........................................ 12 volt, gear reduction type; 3.62 HP (2.7 kW)

**HYDRAULIC SYSTEM**

Pump Type .................................. Engine driven, gear type  
Pump Capacity ................................  
Standard ...................................... 16.9 GPM (64 L/min) @ 3135 RPM  
System Relief @ Quick Couplers .......... 3300 PSI (228 Bar)  
Hydraulic Filter ............................. Full flow replaceable, 3 micron synthetic media element  
Hydraulic Cylinders ........................ Double-acting; Tilt cylinders have cushioning feature on dump  
Control Valve .................................. 3-Spool, open center type with spring detent on lift.  
                                        Electric solenoid valves for auxiliary  
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 mm)  
- Tilt Cylinder (2) ....................... 13.19 in. (335.0 mm)  

Hydraulic Function Times  
- Raise Lift Arms ......................... 3.5 Seconds  
- Lower Lift Arms ......................... 2.5 Seconds  
- Bucket Dump .............................. 2.4 Seconds  
- Bucket Rollback ......................... 1.9 Seconds
**DRIVE SYSTEM**

Main Drive ................... Fully hydrostatic, 4-wheel drive  
Transmission .............. Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors  
Final Drive Chains ...... Pre-stressed #80 HSOC endless roller chain (no master link) and sprockets in sealed chaincase with oil lubrication  
Axle Size .................... 2.00 in. (50.8 mm), heat treated  
Wheel Bolts ............... (8) 9/16 in. wheel bolts fixed to axle hubs

**CAPACITIES**

- Fuel Tank ...................... 24 gals. (90.8 L)  
- Cooling System without heater .... 11 qts. (10.4 L)  
- Engine Oil with Filter ................ 9.5 qts. (9.0 L)  
- Hydraulic/Hydrostatic Reservoir ...... 4.8 gals. (18.2 L)  
- Hydraulic/Hydrostatic System ....... 8.5 gals. (32.2 L)  
- Transmission (Final Drive) ............ 9 gals. (34.1 L)

**CONTROLS**

- Vehicle Steering ................ Direction and speed controlled by two hand levers  
- Loader Hydraulics ............... Controlled by separate foot pedals or optional Advanced Control System (ACS) or optional Selectable Joystick Controls (SJC)  
- Lift & Tilt ...................... Controlled by electrical switch on Right Hand steering lever  
- 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 .................. Mechanical disc, hand operated rocker switch on dash panel

**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  

Axle hubs provide protection for the axle seals  
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**

<table>
<thead>
<tr>
<th>Gauges</th>
<th>Warning Lights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Coolant Temperature</td>
<td>Advanced Control System (ACS)</td>
</tr>
<tr>
<td>Fuel</td>
<td>Engine Air Filter</td>
</tr>
<tr>
<td>Hourmeter</td>
<td>Engine Coolant Temperature</td>
</tr>
<tr>
<td></td>
<td>Engine Oil Pressure</td>
</tr>
</tbody>
</table>

**Indicators**

<table>
<thead>
<tr>
<th>Attachment Control Device</th>
<th>General Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>BICS Functions</td>
<td>Hydraulic Filter</td>
</tr>
<tr>
<td>Glow Plugs</td>
<td>Hydraulic Oil Temperature</td>
</tr>
<tr>
<td></td>
<td>Hydrostatic Charge Pressure</td>
</tr>
<tr>
<td></td>
<td>Seat Belt</td>
</tr>
<tr>
<td></td>
<td>System Voltage</td>
</tr>
</tbody>
</table>

**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

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**ATTACHMENTS**

- Angle Broom
- Auger
- Backhoe
- Bale Forks
- Box Blade
- Brush Saw
- Brushcat Rotary Cutter
- Buckets
- Bucket Adapter
- Chipper
- Combination Bucket
- Concrete Mixer
- Digger
- Dozer Blade
- Dumping Hopper
- Grader
- Grapple, Farm/Utility
- Grapple, Industrial
- Hydraulic Breaker
- Landplane
- Landscape Rake
- Mower
- Packer Wheel
- Pallet Fork - Hydraulic
- Pallet Fork - Standard
- Planer
- Scarifier
- Scraper
- Seeder
- Snow Blade
- Snow V-Blade
- Snowblower
- Sod Layer
- Soil Conditioner
- Spreader
- Stabilizer, Quick Tach
- Sweeper
- Three-Point Hitch
- Tiller
- Tilt-Tatch
- Tracks, Steel
- Tree Spade
- Trench Compactor
- Trencher
- Utility Forks
- Utility Frame
- Vibratory Roller
- Water Kit
- Whisker Broom

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  
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

**HEATED CAB PACKAGES**

**H71 Option Package**

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

**H51 Option Package**

Cab Enclosure with Heat  
Power Bobtach  
Suspension Seat  
Cab Accessory Harness

**H31 Option Package**

Cab Enclosure with Heat  
Suspension Seat  
Cab Accessory Harness

**OPEN CAB PACKAGES**

**O71 Option Package**

Power Bobtach  
Suspension Seat  
Deluxe Instrumentation Panel  
Cab Accessory Harness  
Attachment Control Kit  

**O51 Option Package**

Suspension Seat  
Cab Accessory Harness  
Deluxe Instrumentation Panel

**O31 Option Package**

Suspension Seat  
Cab Accessory Harness
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 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 (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.

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.