## Hydraulic Cylinders

| | |
|---|---|
| Lift cylinder rod | 31.80MM |
| Lift cylinder bore | 50.80MM |
| Lift cylinder type | Double-acting |
| Lift cylinder stroke | 653.50MM |
| Tilt cylinder type | Double-acting |
| Tilt cylinder bore | 57.20MM |
| Tilt cylinder stroke | 307.10MM |
| Tilt cylinder rod | 31.80MM |

## Performance

| | |
|---|---|
| Tipping load (ISO 14397-1) | 914 kgKG |
| Rated operating capacity (ISO 14397-1) | 457.00KG |
| Lift Breakout force (ISO 14397-2) | 826.00 |
| Push force | 1275.00 |
| Tilt Breakout force (ISO 14397-2) | 867.00 |

## Cycle Times

| | |
|---|---|
| Lower lift arms | 2.30 |
| Raise lift arms | 3.60 |
| Bucket rollback | 1.8 secSEC |
| Bucket dump | 2.4 secSEC |

## Hydraulic System

| | |
|---|---|
| Pump capacity | 36.46 l/minLPM |
| Control valve | Three-spool, open-centre type with float detent o n lift and auxiliary spool with detent in one direction (manual) |
| Fluid lines | SAE standard tubelines, hoses, and fittings |
| Hydraulic filter | Full-flow replaceable — 3 µm synthetic media element |
| Pump type | Engine driven, gear type |
| System relief at quick couplers | 20.7 MPa |

## Drive System

| | |
|---|---|
| Final drive chains | Pre-stressed #80 HSOC endless roller chain (no master link) and sprockets in sealed chaincase with oil lubrication. (Chains do not require periodic adjustments.) Two chains per side with n o idler sprocket. |
| Transmission | Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors |
| Wheel bolts | Six 9/16–inch wheel bolts fixed to axle hubs |
| Main drive | Fully hydrostatic; four-wheel drive |
| Axle size | 44.5 mm, heat treated. Axle tubes welded to chaincase. |

## Traction

| | |
|---|---|
| Max. travel speed - High (Optional) | 13.4 kmhKPH |
| Max. travel speed | 8.2 kmhKPH |
| Max. travel speed - Low (Optional) | 8.0 kmhKPH |

## Brakes

| | |
|---|---|
| Parking brake | Mechanical disk, hand-operated rocker switch on dash panel |

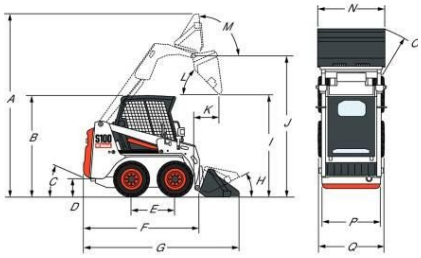
## Fluid Capacities

| | |
|---|---|
| Transmission chaincase reservoir | 22.00L |
| Hydraulic / Hydrostatic system | 22.00L |
| Cooling system without heater | 11 |
| Hydraulic / Hydrostatic reservoir | 13 |
| Fuel tank | 45.00L |
| Cooling recovery bottle | 4.0 lL |
| Cooling system with heater | 12 |
| Engine oil with filter | 4.50L |

## Fluid Specifications

| | |
|---|---|
| Engine oil | Recommended SAE viscosity number for anticipated temperature range. |

## Dimensions




| | |
|---|---|
| (F) 2262.5 mm MM | (L) 43.00 |
| (P) 1025.3 mm MM | (C) 25.00 |
| (G) 2800.00 MM | (I) 2084.00 MM |
| (B) 1877.60 mm MM | (O) 1731.00 MM |
| (J) 2632.6 mm MM | (Q) 1167.1 mm MM |
| (A) 3306.00 MM | (D) 166.7 mm MM |
| (E) 817.6 mm MM | (N) 1270 mm MM |
| (M) 95.3 | (H) 26.00 |
| (K) 390 mm MM | |

| | |
|---|---|
| Oil must meet API Service * | Classification of CD, CE, CF4, CG4, or better. Can be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer. |
| Hydraulic fluid | 5 l can - 6904842A<br>25 l container - 6904842B<br>209 l drum - 6904843C<br>5 l can - 6904843A<br>209 l drum - 6904842C<br>1000 l tank - 6904843D<br>25 l container - 6904843B<br>1000 l tank - 6904842D |
| Bobcat Bio Hydraulic | |
| Bobcat Superior SH | |
| Engine coolant | 5 l can - 6904844A<br>25 l container - 6904844B<br>209 l drum - 6904844C<br>1000 l tank - 6904844D |
| Bobcat PG Coolant | |

## Controls

| | |
|---|---|
| Front auxiliary (standard) | Lateral movement of right-hand steering lever |
| Service brake | Two independent hydrostatic systems controlled by two hand-operated steering levers |
| Secondary brake | One of the hydrostatic transmissions |
| Starting | Key-type starter switch and shutdown. Glow plugs automatically activated on standard instrumentation panel. |
| Engine | Hand lever throttle |
| Auxiliary pressure release | Lateral movement of right-hand steering lever after engine has been shut off. |
| Vehicle steering | Direction and speed controlled by two hand levers |
| Loader hydraulics tilt and lift | Separate foot pedals |

## Environmental

| | |
|---|---|
| Bystander noise level (ISO 6395) | 96 dbDB |
| Operator noise level (ISO 6395) | 86 dbDB |

## Electrical

| | |
|---|---|
| Battery | 12 V L2 EFB - 700 A cold cranking at -18°C - 110 min reserve capacity |
| Starter | 12 V gear type 3.2 kW (4.29 HP) |
| Ignition Switch | Activates starter and instrumentation. Traction lock, lift lock, and tilt lock |
| Alternator | 90 A ventilated |

## Engine

| | |
|---|---|
| Compliancy | Stage V (V) |
| Fuel | Diesel no. 2-D |
| Number of cylinders | 4 |
| Make / Model | KUBOTA / V1505-E4B-BCZ-1 |
| Ignition | Compression (diesel) |
| Maximum power at rated speed (ISO 14396) | 18.2 kwKW |
| Maximum torque at rated speed (SAE J1995) | 92.6 nmNEWTON-M |
| Crankcase ventilation | Closed breathing |
| Air filter | Dry replaceable cartridge with separate safety element |
| Rated torque speed | 1700 rpmRPM |
| Stroke | 78.40MM |
| Displacement | 1498.00 |
| Lubrication | Gear pump pressure |
| Cooling | Liquid |
| Rated power speed | 2300 rpmRPM |
| Bore | 78.00MM |

## Weights

| | |
|---|---|
| Shipping Weight | 1693 kgKG |
| Operating Weight | 1860 kgKG |

## Options

| | |
|---|---|
| Factory Options | • Selectable Joystick Controls (SJC) |
| • Two speed with 3-point belt | • Deluxe pressurized cab with heating |
| • Cloth Suspension Seat | • Vinyl Suspension Seat |
| • Keyless start with password capability | • Power Bob-Tach™ |
| • Hydraulic bucket positioning (including ON/OFF switch) | • Back-up alarm |

- 28x9-15 Hard Duty Solid Tyres
- Beacon
- Cab enclosure kit
- Counterweights
- Top window kit Lexan
- Lexan door kit
- Counterweight kit
- Hydraulic bucket positioning kit
- Back up alarm kit
- Fresh air heater kit
- Rear window wiper kit
- Seat belt kit
- Additional gas spring kit (for tipping the cab)
- Fuel cap locking kit
- Road kit

Dealer Installed Options

- Lexan rear window kit
- Side windows kit
- Front door kit
- Special applications front door kit
- Single-point lift kit
- Power Bob-Tach™ kit
- Fire extinguisher kit
- Plumbing kit for fresh air heater
- Warning lights: rotating beacon, strobe light
- Third gas spring kit (for heated cab)
- Tailgate lock kit
- FOPS kit

## Instrumentation

Standard Instrument Panel

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

Deluxe Instrument Panel

## Serviceability

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

- Alternator
- Cooling radiators
- Engine oil drain and dipstick
- Starter

Bob-Tach™ pivots have replaceable wear bushings

Rod end of the tilt cylinder has a replaceable bushing

Tailgate is equipped with door-stop to hold door open while servicing

- Air cleaner
- Battery
- Engine oil and fuel filters
- Hydraulic oil fill

Axle hubs provide protection for the axle seals

Easy access to all grease points

Tailgate has an optional lock for vandal-proofing

Tip-up operator cab gives access to certain hydraulic system components

## Attachments

- Auger Accessories
- Bale Forks
- Breakers
- Brushcat™ Rotary Cutters
- Construction / Industrial Buckets
- Grapples, Industrial
- Low Profile Buckets
- Mowers
- Planer Accessories
- Remote Control
- Scrapers
- Snow Blades
- Sweepers
- Utility Forks
- Augers
- Breaker Accessories
- Brush Saws
- Combination Buckets
- Dumping Hoppers
- Landplanes
- Miscellaneous
- Pallet Fork Accessories
- Rear Stabilizers
- Root Grapples
- Skeleton Buckets
- Soil Conditioners
- Tillers
- Utility Frames

## Standard Features

- Bobcat Interlock Control System (BICS)
- Operator cab Deluxe
- Standard Seat
- Seat bar
- 27 x 8.50-15, 6–ply, Bobcat heavy duty tyres
- Operating lights, front and rear
- Parking brake
- Engine/hydraulics system shutdown
- Manual
- Hand and Foot Controls
- 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 I. Cab Deluxe includes Interior cab foam, top and rear windows, deluxe wire harness, domelight and electrical power port.
- Seat belt
- Bob-Tach™ frame
- Auxiliary hydraulics: variable flow/maximum flo w
- Lift arm support
- Spark arrestor muffler
- Automatically activated glow plugs
- Warranty: 24 months or 2000 hours (whichever occurs first)