

## Hydraulic Cylinders

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

## Performance

|                                        |          |
|----------------------------------------|----------|
| 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   |
| Tipping load (ISO 14397-1)             | 914 kgKG |

## 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 on lift and auxiliary spool with detent in one direction (manual) |
| System relief at quick couplers | 20.7 MPa                                                                                                          |
| Fluid lines                     | SAE standard tubelines, hoses, and fittings                                                                       |
| Hydraulic filter                | Full-flow replaceable — 3 µm synthetic media element                                                              |
| Pump type                       | Engine driven, gear type                                                                                          |

## Drive System

|                    |                                                                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                  |
| 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 no idler sprocket. |
| 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 |
|---------------|------------------------------------------------------------|

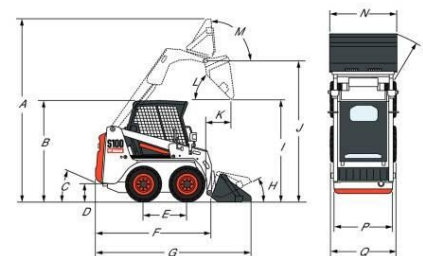
## Fluid Capacities

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

## Fluid Specifications

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| Engine oil | For synthetic oil use the recommendation from the oil manufacturer. |
|------------|---------------------------------------------------------------------|

## Dimensions



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

\* Can be used only when

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
|                           | available with appropriate diesel rating.                           |
|                           | Recommended SAE viscosity number for anticipated temperature range. |
| Oil must meet API Service | Classification of CD, CE, CF4, CG4, or better.                      |
| Engine coolant            | Bobcat PG Coolant                                                   |
| 209 l drum - 6904844C     |                                                                     |
| 5 l can                   | n - 6904844A                                                        |
| 25 l container - 6904844B |                                                                     |
| 1000 l                    | tank - 6904844D                                                     |
| Hydraulic fluid           | 209 l drum - 6904842C                                               |
| 1000 l tank - 6904843D    |                                                                     |
| 2                         | 5 l container - 6904843B                                            |
| Bobcat Superior SH        |                                                                     |
| 100                       | 0 l tank - 6904842D                                                 |
| 25 l container - 6904842B |                                                                     |
|                           | Bobcat Bio Hydraulic                                                |
| 209 l drum - 6904843C     |                                                                     |
| 5 l                       | can - 6904843A                                                      |
| 5 l can - 6904842A        |                                                                     |

Controls

|                                 |                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|
| 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                                                                                        |
| 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                                                                                         |

Environmental

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

Electrical

|                 |                                                                                |
|-----------------|--------------------------------------------------------------------------------|
| Ignition Switch | Activates starter and instrumentation. Traction lock, lift lock, and tilt lock |
| Alternator      | 90 A ventilated                                                                |
| 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)                                                |

Engine

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

Weights

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

Options

|                                                                                                                                                                                                                         |                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Factory Options                                                                                                                                                                                                         | <ul style="list-style-type: none"><li>Selectable Joystick Controls (SJC)</li><li>Deluxe pressurized cab with heating</li><li>Vinyl Suspension Seat</li><li>Power Bob-Tach™</li></ul> |
| <ul style="list-style-type: none"><li>Two speed with 3-point belt</li><li>Cloth Suspension Seat</li><li>Keyless start with password capability</li><li>Hydraulic bucket positioning (including ON/OFF switch)</li></ul> | <ul style="list-style-type: none"><li>Back-up alarm</li></ul>                                                                                                                        |

- 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 flow
- Lift arm support
- Spark arrestor muffler
- Automatically activated glow plugs
- Warranty: 24 months or 2000 hours (whichever occurs first)