

## Slew System

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Boom swing, right | 64.00                                                  |
| Boom swing, left  | 67.00                                                  |
| Slew drive        | Orbit motor                                            |
| Slew circle       | Single row shear-type ball bearings with internal gear |

## Hydraulic Cylinders

|                               |            |
|-------------------------------|------------|
| Bucket cylinder               | No cushion |
| Bucket cylinder stroke        | 385.10MM   |
| Undercarriage cylinder stroke | 299.90MM   |
| Boom swing cylinder stroke    | 274.60MM   |
| Undercarriage cylinder rod    | 25.40MM    |
| Boom swing cylinder           | No cushion |
| Undercarriage cylinder bore   | 44.50MM    |
| Blade cylinder                | No cushion |
| Boom swing cylinder rod       | 31.80MM    |
| Dipperstick cylinder bore     | 50.80MM    |
| Boom cylinder                 | Cushion up |
| Blade cylinder stroke         | 96.80MM    |
| Dipperstick cylinder rod      | 31.80MM    |
| Dipperstick cylinder          | No cushion |
| Bucket cylinder rod           | 25.40MM    |
| Boom cylinder stroke          | 312.40MM   |
| Boom cylinder rod             | 31.80MM    |
| Boom cylinder bore            | 63.50MM    |
| Bucket cylinder bore          | 44.50MM    |
| Undercarriage cylinder        | No cushion |
| Blade cylinder rod            | 31.80MM    |
| Blade cylinder bore           | 50.80MM    |
| Dipperstick cylinder stroke   | 325.60MM   |
| Boom swing cylinder bore      | 57.10MM    |

## Performance

|                                       |            |
|---------------------------------------|------------|
| Digging force, dipperstick (ISO 6015) | 5550.00    |
| Digging force, bucket (ISO 6015)      | 8294.00    |
| Drawbar pull                          | 9905.00    |
| Travel Speed                          | 2.1 kmhKPH |
| Ground pressure with rubber tracks    | 28.80KPA   |

## Cycle Times

|                            |      |
|----------------------------|------|
| Blade lower time           | 1.10 |
| Blade raise time           | 1.60 |
| Bucket dump time           | 2.30 |
| Boom swing left time       | 4.00 |
| Dipperstick extend time    | 3.40 |
| Undercarriage expand time  | 3.80 |
| Boom lower time            | 3.50 |
| Dipperstick retract time   | 4.80 |
| Boom swing right time      | 3.10 |
| Undercarriage retract time | 2.80 |
| Bucket curl time           | 3.30 |
| Boom raise time            | 4.00 |

## Hydraulic System

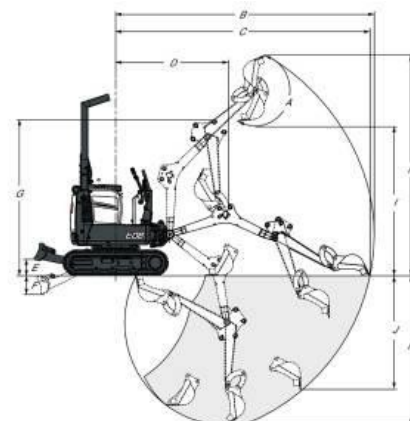
|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Main hydraulic filter bypass | 1.72 barBAR                                          |
| Fluid lines                  | SAE standard tubelines, hoses, and fittings          |
| Auxiliary flow               | 20.00                                                |
| Control valve                | 9 spool, parallel type open center                   |
| System Relief                | 185                                                  |
| Pump capacity                | 10 l/minLPM                                          |
| Hydraulic filter             | Full-flow replaceable — 3 µm synthetic media element |
| Pump type                    | Double gear pump                                     |

## Drive System

|                 |                                              |
|-----------------|----------------------------------------------|
| Travel motor    | Each track driven by axial piston motor      |
| Gradeability    | 25.00                                        |
| Drive reduction | 18.53:1 - Two stage planetary gear reduction |

## Traction

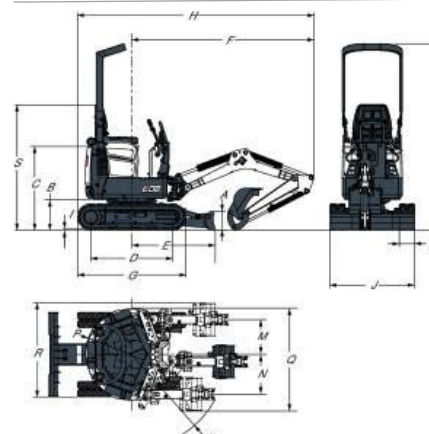
## Working range



### Maximum Dump Height

|                   |                   |
|-------------------|-------------------|
| (•) 810 mm MM     | (G) 1898.80 mm MM |
| (•) 1281.8 mm MM  | (E) 195.60 mm MM  |
| (A) 195.9 deg DEG | (D) 1373.60 mm MM |
| (B) 3144.90 mm MM | (K) 1820.30 mm MM |
| (J) 1382.70 mm MM | (C) 3093.30 mm MM |
| (H) 2684.60 mm MM | (F) 230.30 mm MM  |

## Dimensions



### Maximum Dump Height

|                   |                   |
|-------------------|-------------------|
| (F) 2153.20 mm MM | (B) 363.00 MM     |
| (R) 1162.30 mm MM | (H) 2792.90 mm MM |
| (S) 1490.00 MM    | (C) 991.50 mm MM  |
| (E) 987.10 mm MM  | (L) 180.00 MM     |
| (Q) 1220.40 mm MM | (I) 15.50 mm MM   |
| (N) 470.70 mm MM  | (O) 1121.30 mm MM |
| (J) 1000.00 MM    | (A) 219.50 mm MM  |
| (P) 549.70 mm MM  | (K) 2208.90 mm MM |
| (J) 710.00 MM     | (D) 968.00 MM     |
| (M) 412.60 mm MM  | (G) 1279.8 mm MM  |

|                                        |                                                          |
|----------------------------------------|----------------------------------------------------------|
| Track type, standard                   | Half-pitch, rubber                                       |
| Undercarriage                          | Sealed track rollers with box section track roller frame |
| Number of track rollers per side       | 2                                                        |
| Gradeability travelling up side slopes | 15.00                                                    |
| Track adjusters                        | Grease type                                              |

### Brakes

|               |                                      |
|---------------|--------------------------------------|
| Slew brake    | Hydraulic lock on motor and pin lock |
| Parking brake | Hydraulic lock in motor circuit      |
| Travel brake  | Hydraulic lock in motor circuit      |

### Fluid Capacities

|                                   |        |
|-----------------------------------|--------|
| Final drive case (each)           | 0.50L  |
| Cooling system                    | 3.00L  |
| Engine oil with filter            | 2.8 IL |
| Fuel tank                         | 16 IL  |
| System capacity                   | 9.4    |
| Hydraulic / Hydrostatic reservoir | 2.60L  |

### Fluid Specifications

|                                                   |                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Engine oil                                        | * Can be used only when available with appropriate diesel rating. For synthetic oil use the recommendation from the oil manufacturer.      |
| Oil                                               | I must meet API Service Classification of CD, CE, CF4, CG4, or better. Recommended SAE viscosity number for anticipated temperature range. |
| Hydraulic fluid                                   | Bobcat Bio Hydraulic, 5 L can - 6904843A, 25 L container - 6904843B, 209 L drum - 6904843C, 1000 L tank - 6904843D                         |
| Bobcat Superior SH, 5 L can -                     | 6904842A, 25 L container - 6904842B, 209 L drum - 6904842C, 1000 L tank - 6904842D                                                         |
| Motor oil is not an acceptable alternative fluid. |                                                                                                                                            |
| Engine coolant                                    | Propylene glycol/water mix (53% - 47%) with freeze protection to -37°C                                                                     |
| 5 L can - 6904844A, 2                             | 5 L container - 6904844B, 209 L drum - 6904844C, 1000 L tank - 6904844D                                                                    |

### Controls

|                                                   |                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------|
| Auxiliary hydraulics                              | Left-hand foot pedal                                                  |
| Blade                                             | Right hand lever                                                      |
| Steering                                          | Direction and speed controlled by two hand levers                     |
| Holding brake for upper structure slew            | Pin lock                                                              |
| Starting                                          | Key-type starter switch and shutdown                                  |
| Boom swing                                        | Right foot pedal                                                      |
| Hydraulics                                        | Two levers control boom, bucket, dipperstick and upper structure slew |
| Engine                                            | Hand levers on right hand side                                        |
| Upper structure slew lock for holding and service | Hydraulic lock on motor                                               |

### Environmental

|                                           |       |
|-------------------------------------------|-------|
| Noise level LwA (EU Directive 2000/14/EC) | 93.00 |
|-------------------------------------------|-------|

### Safety

|                                    |                                                                                                                                                                               |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pedal lock, standard               | Prevents activation of the boom swing function.                                                                                                                               |
| Upper carriage slew lock, standard | A lock pin is provided to lock the upper structure to the undercarriage for transport.                                                                                        |
| Control lockout, standard          | Operator console locks out work group and travel functions when in the upright position.                                                                                      |
| Safety tread, standard             | Slip resistant tread on canopy threshold to be used when entering/exiting excavator.                                                                                          |
| Grab handles, standard             | Should always be used when entering/exiting excavator.                                                                                                                        |
| Retractable seat belt, standard    | Should always be worn when operating the excavator                                                                                                                            |
| Operator's handbook, standard      | Weather-resistant operator handbook attached to the underneath of the seat, providing operational instructions and warnings decals with pictorials and international symbols. |
| Travel motion alarm, optional      | For use when required                                                                                                                                                         |
| Front working lights, standard     | Use for indoor and low light operation.                                                                                                                                       |
| Operator cab, standard             | A two-post canopy or optional closed cab. Meets ISO 12117 for Tip Over Protective Structure (TOPS)                                                                            |

|                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                 |
| Battery                                                                                                                                                                                                                                                   | 12 negative ground - 530 A cold cranking at -18°C<br>- 75 min reserve capacity                                                                                                                                                                  |
| Starter                                                                                                                                                                                                                                                   | 12 V reduction drive 1.4 kW (1.88 hp)                                                                                                                                                                                                           |
| Alternator                                                                                                                                                                                                                                                | 12 V - 40 A open frame with internal regulator                                                                                                                                                                                                  |
| <b>Engine</b>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                 |
| Rated torque speed                                                                                                                                                                                                                                        | 1600                                                                                                                                                                                                                                            |
| Air filter                                                                                                                                                                                                                                                | Dual dry replaceable paper cartridge                                                                                                                                                                                                            |
| Stroke                                                                                                                                                                                                                                                    | 68.00MM                                                                                                                                                                                                                                         |
| Rated power speed                                                                                                                                                                                                                                         | 2000                                                                                                                                                                                                                                            |
| High idle speed                                                                                                                                                                                                                                           | 2370.0 RPM                                                                                                                                                                                                                                      |
| Ignition                                                                                                                                                                                                                                                  | Compression ignited (diesel)                                                                                                                                                                                                                    |
| Maximum power at rated speed (ISO 14396)                                                                                                                                                                                                                  | 7.5 kWkW                                                                                                                                                                                                                                        |
| Maximum torque at rated speed (SAE J1995)                                                                                                                                                                                                                 | 40.1 nmNEWTON-M                                                                                                                                                                                                                                 |
| Lubrication                                                                                                                                                                                                                                               | Forced lubrication with cartridge type filter                                                                                                                                                                                                   |
| Number of cylinders                                                                                                                                                                                                                                       | 3                                                                                                                                                                                                                                               |
| Crankcase ventilation                                                                                                                                                                                                                                     | Closed breathing                                                                                                                                                                                                                                |
| Compliance                                                                                                                                                                                                                                                | Stage V (V)                                                                                                                                                                                                                                     |
| Displacement                                                                                                                                                                                                                                              | 0.72L                                                                                                                                                                                                                                           |
| Fuel                                                                                                                                                                                                                                                      | Ultra low sulfur diesel no. 2-D S15                                                                                                                                                                                                             |
| Bore                                                                                                                                                                                                                                                      | 67.00MM                                                                                                                                                                                                                                         |
| Cooling                                                                                                                                                                                                                                                   | Liquid, forced circulation                                                                                                                                                                                                                      |
| Make / Model                                                                                                                                                                                                                                              | Kubota / D722-E4B-BCZ-6                                                                                                                                                                                                                         |
| Low idle speed                                                                                                                                                                                                                                            | 1300.0-1400.0 RPM                                                                                                                                                                                                                               |
| <b>Weights</b>                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                 |
| Operating Weight                                                                                                                                                                                                                                          | 1138 kgKG                                                                                                                                                                                                                                       |
| Shipping Weight                                                                                                                                                                                                                                           | 1039 kgKG                                                                                                                                                                                                                                       |
| <b>Options</b>                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• Auxiliary double action</li> <li>• Auxiliary quick coupler</li> <li>• Grease gun w/ holder</li> <li>• Hydraulic oil cooler</li> <li>• Object handling device (lifteye)</li> <li>• Travel motion alarm</li> </ul> | <ul style="list-style-type: none"> <li>• Auxiliary on arm</li> <li>• Beacon</li> <li>• Heavy duty travel hose guard</li> <li>• Keyless ignition</li> <li>• Spark arrester muffler kit</li> </ul>                                                |
| <b>Instrumentation</b>                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• Air intake heater indicator</li> <li>• Engine oil pressure indicator</li> <li>• Fuel gauge</li> </ul>                                                                                                            | <ul style="list-style-type: none"> <li>• Charging system indicator</li> <li>• Engine temperature indicator</li> <li>• Hour meter</li> </ul>                                                                                                     |
| <b>Serviceability</b>                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                 |
| Fuel filler is external and has key lock for vandal proofing                                                                                                                                                                                              | Access is available to the following through the rear tailgate or side access hood:                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• Air cleaner with indicator</li> <li>• Cooling system (engine oil and hydraulic oil coolers) for cleaning</li> <li>• Engine oil level</li> <li>• Starter</li> <li>• Sight gauge for fuel level</li> </ul>         | <ul style="list-style-type: none"> <li>• Battery</li> <li>• Engine oil and fuel filters</li> <li>• Fuel filler</li> <li>• Sight gauges for hydraulic level</li> </ul> Central grease point for swing bearing, swing pinion, and offset cylinder |
| Tailgate and access cover have locks for vandal-proofing.                                                                                                                                                                                                 | Easy access to all grease points.                                                                                                                                                                                                               |
| <b>Attachments</b>                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• Breaker Accessories</li> <li>• Clayspade Buckets, Pin-on</li> <li>• Grading Buckets, Pin-on</li> </ul>                                                                                                           | <ul style="list-style-type: none"> <li>• Breakers</li> <li>• Digging Buckets, Pin-on</li> <li>• Laser Equipment</li> </ul>                                                                                                                      |
| <b>Standard Features</b>                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• 710 mm dozer blade / 1000 mm extended</li> <li>• Control console locks</li> </ul>                                                                                                                                | <ul style="list-style-type: none"> <li>• 180 mm rubber track</li> <li>• Double acting auxiliary hydraulics with quick couplers on boom</li> <li>• Hydraulically expandible undercarriage from 710 to 1000 mm</li> </ul>                         |
| <ul style="list-style-type: none"> <li>• Horn</li> <li>• Retractable seat belt</li> <li>• TOPS canopy</li> </ul>                                                                                                                                          | <ul style="list-style-type: none"> <li>• Seat</li> <li>• Tip Over Protective Structure (TOPS) – Meets requirements of ISO 12117</li> </ul>                                                                                                      |
| <ul style="list-style-type: none"> <li>• Vandalism protection</li> <li>• Warranty: 24 months, 2000 hours (whichever occurs first)</li> </ul>                                                                                                              | <ul style="list-style-type: none"> <li>• Work light</li> </ul>                                                                                                                                                                                  |