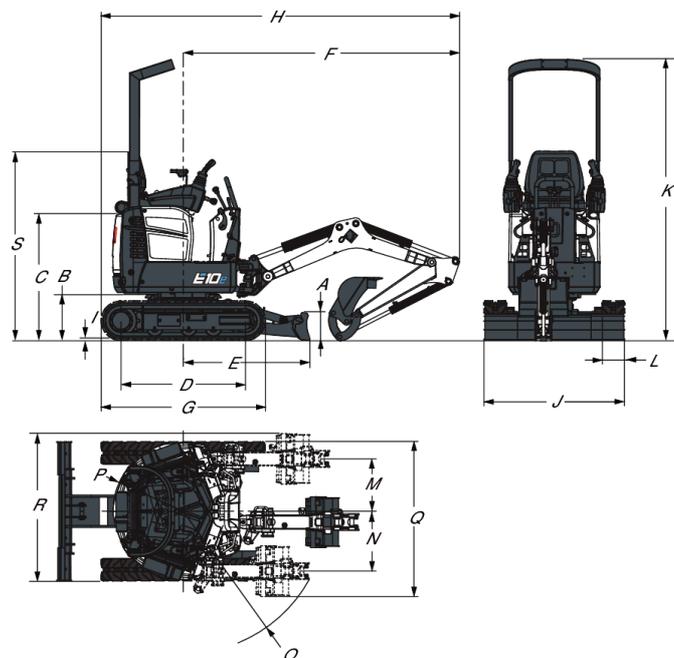
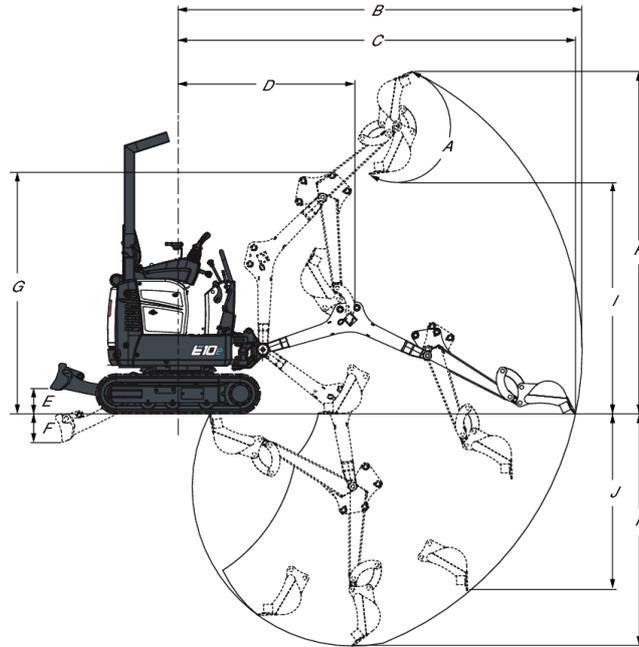


## Dimensions



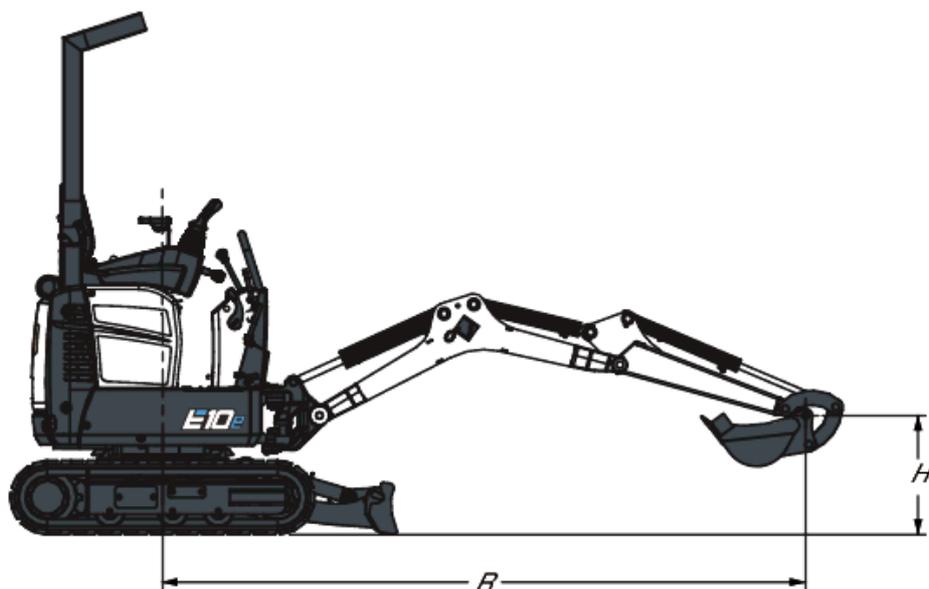
|   |           |
|---|-----------|
| (A) Blade height  | 219.5 mm  |
| (B) Clearance, upper structure to ground line                                 | 363.0 mm  |
| (C) Ground line to top of engine cover  | 991.5 mm  |
| (D) Length of track on ground   | 968.0 mm  |
| (E) Machine centre line to blade  | 987.0 mm  |
| (F) Minimum radius in travel position   | 2153.0 mm |
| (G) Overall length of track assembly  | 1280.0 mm |
| (H) Overall length in travel position   | 2793.0 mm |
| (I) Track lug height  | 16.0 mm   |
| (J) Blade width   | 710.0 mm  |
| (J) Blade width (extensions extended)   | 1100.0 mm |
| (K) Height  | 2209.0 mm |
| (S) Track width   | 1490.0 mm |
| (L) Track width   | 180.0 mm  |
| (M) Machine centre line to working equipment centre line, left-hand rotation  | 413.0 mm  |
| (N) Machine centre line to working equipment centre line, right-hand rotation | 471.0 mm  |
| (O) Minimum turning radius  | 1121.0 mm |
| (P) Swing clearance, rear   | 550.0 mm  |
| (Q) Working width at maximum right-hand rotation, long dipperstick            | 1221.0 mm |
| (R) Working width at maximum left-hand rotation, long dipperstick             | 1162.0 mm |
| (•) Boom length (boom pivot to arm pivot)                                     | 1276.0 mm |
| (•) Standard arm length (arm pivot to bucket pivot)                           | 810.0 mm  |

## Working Range



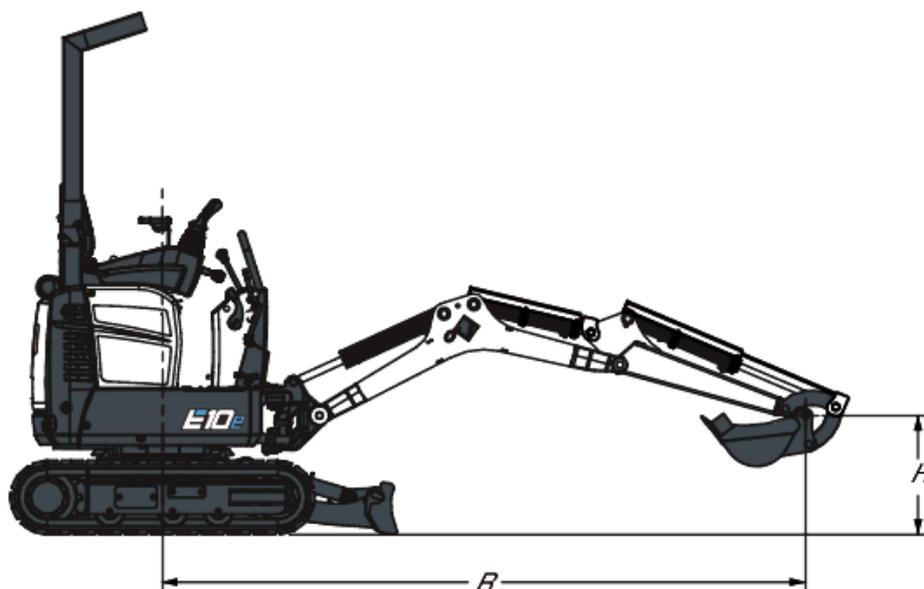
|  |           |
|--|-----------|
| (A) Bucket pivot angle   | 196.0°    |
| (B) Maximum reach of working equipment   | 3145.0 mm |
| (C) Maximum reach at ground level  | 3093.0 mm |
| (D) Maximum working equipment radius with boom at maximum height and dipperstick fully retracted | 1374.0 mm |
| (E) Maximum blade height   | 196.0 mm  |
| (F) Maximum blade depth  | 230.0 mm  |
| (G) Maximum height of working equipment with dipperstick retracted                               | 1899.0 mm |
| (H) Maximum bucket tooth height  | 2685.0 mm |
| (I) Maximum dump height  | 1818.0 mm |
| (J) Maximum depth of vertical wall which can be excavated  | 1383.0 mm |
| (K) Maximum digging depth  | 1820.0 mm |

## Lift Capacity



| Lift point height [H] (mm)                         | Maximum radius [R] (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius |
|--|-------------------------|--------------------------|------------------------|
| 2000   | -                       | 319 *                    | 319 *                  |
| 1000   | -                       | 275 *                    | 345 *                  |
| Ground   | -                       | 239 *                    | 404 *                  |
| -1000  | -                       | 210 *                    | 214 *                  |
| * Rated hydraulic lift capacity with 400 mm bucket |                         |                          |                        |
| Lift point height [H] (mm)                         | Maximum radius [R] (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius |
| 2000   | -                       | 192                      | 206                    |
| 1000   | -                       | 121                      | 197                    |
| Ground   | -                       | 116                      | 174                    |
| -1000  | -                       | 171                      | 171                    |
| * Rated hydraulic lift capacity with 400 mm bucket |                         |                          |                        |
| Lift point height [H] (mm)                         | Maximum radius [R] (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius |
| 2000   | -                       | 90                       | 94                     |
| 1000   | -                       | 54                       | 92                     |
| Ground   | -                       | 48                       | 78                     |
| -1000  | -                       | 73                       | 75                     |
| * Rated hydraulic lift capacity with 400 mm bucket |                         |                          |                        |

## Lift Capacity with cylinder covers



| Lift point height [H] (mm) | Maximum radius [R] (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius |
|----------------------------|-------------------------|--------------------------|------------------------|
| 2000                       | -                       | 285 *                    | 297 *                  |
| 1000                       | -                       | 263 *                    | 324*                   |
| Ground                     | -                       | 228 *                    | 378*                   |
| -1000                      | -                       | 192 *                    | 192*                   |

\* Rated hydraulic lift capacity with 400 mm bucket

| Lift point height [H] (mm) | Maximum radius [R] (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius |
|----------------------------|-------------------------|--------------------------|------------------------|
| 2000                       | -                       | 201                      | 207                    |
| 1000                       | -                       | 138                      | 213                    |
| Ground                     | -                       | 137                      | 202                    |
| -1000                      | -                       | 192 *                    | 192 *                  |

\* Rated hydraulic lift capacity with 400 mm bucket

| Lift point height [H] (mm) | Maximum radius [R] (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius |
|----------------------------|-------------------------|--------------------------|------------------------|
| 2000                       | -                       | 200                      | 213                    |
| 1000                       | -                       | 144                      | 212                    |
| Ground                     | -                       | 141                      | 212                    |
| -1000                      | -                       | 192 *                    | 192 *                  |

\* Rated hydraulic lift capacity with 400 mm bucket

## Performance

|                                       |           |
|---------------------------------------|-----------|
| Digging force, dipperstick (ISO 6015) | 5550 N    |
| Digging force, bucket (ISO 6015)      | 8294 N    |
| Drawbar pull                          | 9905 N    |
| Ground pressure                       | 28.80 kPa |

## Cycle Times

|                            |          |
|----------------------------|----------|
| Boom raise time            | 4.9 s    |
| Boom lower time            | 5.0 s    |
| Bucket curl time           | 3.1 s    |
| Bucket dump time           | 2.2 s    |
| Dipperstick retract time   | 3.2 s    |
| Dipperstick extend time    | 2.2 s    |
| Boom swing left time       | 3.7 s    |
| Boom swing right time      | 2.8 s    |
| Blade raise time           | 1.5 s    |
| Blade lower time           | 1.4 s    |
| Slew rate                  | 10.2 RPM |
| Undercarriage expand time  | 5.4 s    |
| Undercarriage retract time | 3.8 s    |

## Weights

|  |         |
|--|---------|
| Transport mass (no attachment)               | 1102 kg |
| Operating weight with 40cm bucket (ISO 6016) | 1201 kg |

## Engine

|                           |                                     |
|---------------------------|-------------------------------------|
| Make / model              | Schabmueller / Electric AM (TSA200) |
| Voltage                   | 32VAC                               |
| Cooling                   | Passive circulation                 |
| Maximum power @ 3000 RPM  | 7.5 kW                              |
| Maximum governed speed    | 3000.0 RPM                          |
| High idle speed           | 3000.0 RPM                          |
| Low idle speed            | 1500.0 RPM                          |
| Maximum torque @ 2400 RPM | 30.0 Nm                             |
| Lubrication               | No lubrication                      |

## Powertrain Battery

|          |                    |
|----------|--------------------|
| Model    | Li-Ion             |
| Voltage  | 51.8 VDC           |
| Capacity | 11.52 kWh (2x5.76) |

## Hydraulic System

|  |                  |
|--|------------------|
| Pump type                                    | Triple gear pump |
| Pump capacity                                | 25.00 L/min      |
| System relief pressure for blade circuit     | 19000.00 bar     |
| System relief pressure for joystick circuits | 3000.00 bar      |
| System relief pressure for travel circuits   | 19000.00 bar     |
| Dipperstick port relief base and rod end     | 22500.00 bar     |
| Dipperstick port relief base and rod end     | 23200.00 bar     |

|                              |                                       |
|------------------------------|---------------------------------------|
| Main hydraulic filter bypass | 172.00 kPa                            |
| Control valve                | Nine-spool parallel type, open centre |
| Auxiliary flow               | 20.00 L/min                           |

## Hydraulic Cylinders

|                               |            |
|-------------------------------|------------|
| Boom cylinder                 | Cushion up |
| Boom cylinder bore            | 63.5 mm    |
| Boom cylinder rod             | 31.8 mm    |
| Boom cylinder stroke          | 308.4 mm   |
| Dipperstick cylinder          | No cushion |
| Dipperstick cylinder bore     | 50.8 mm    |
| Dipperstick cylinder rod      | 31.8 mm    |
| Dipperstick cylinder stroke   | 325.6 mm   |
| Bucket cylinder               | No cushion |
| Bucket cylinder bore          | 44.5 mm    |
| Bucket cylinder rod           | 25.4 mm    |
| Bucket cylinder stroke        | 385.1 mm   |
| Boom swing cylinder           | No cushion |
| Boom swing cylinder bore      | 57.1 mm    |
| Boom swing cylinder rod       | 31.8 mm    |
| Boom swing cylinder stroke    | 274.6 mm   |
| Blade cylinder                | No cushion |
| Blade cylinder bore           | 50.8 mm    |
| Blade cylinder rod            | 31.8 mm    |
| Blade cylinder stroke         | 102.9 mm   |
| Undercarriage cylinder        | No cushion |
| Undercarriage cylinder bore   | 44.5 mm    |
| Undercarriage cylinder rod    | 25.4 mm    |
| Undercarriage cylinder stroke | 400.1 mm   |

## Buckets

| Width (mm) | Weight (kg) | Struck capacity (m <sup>3</sup> ) | Rated capacity (m <sup>3</sup> ) |
|------------|-------------|-----------------------------------|----------------------------------|
| 200        | 15.2        | 0.0080                            | 0.0100                           |
| 250        | 17.0        | 0.0100                            | 0.0140                           |
| 300        | 20.8        | 0.0130                            | 0.0170                           |
| 400        | 24.4        | 0.0180                            | 0.0250                           |
| 800        | 33.8        | 0.0390                            | 0.0540                           |

## Slew System

|                   |  |
|-------------------|--|
| Boom swing, left  | 67.0°  |
| Boom swing, right | 64.0°  |
| Slew circle       | Single row shear-type ball bearings with internal gear |
| Slew drive        | Orbit motor  |

## Drive System

|                 |  |
|-----------------|--|
| Travel motor    | Each track is driven by axial piston motor |
| Drive reduction | 23.04:1 Two stage planetary                |

## Traction

|                                  |   |
|----------------------------------|---|
| Track width                      | 180.0 mm  |
| Track adjusters                  | Grease type   |
| Track type, standard             | Rubber  |
| Travel speed, low range          | 1.8 km/h  |
| Travel speed, high range         | 2.9 km/h  |
| Undercarriage                    | Crawler-type tractor design with reinforced box-section track roller frame and sealed track rollers |
| Number of track rollers per side | 3   |
| Gradeability                     | 25.0°   |

## Brakes

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

## Fluid Capacities

|                         |        |
|-------------------------|--------|
| Hydraulic reservoir     | 2.60 L |
| Hydraulic system        | 9.40 L |
| Final drive case (each) | 0.50 L |

## Fluid Specifications

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

## Controls

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

## Instrumentation

- Indicators
  - Low Battery Indicator
  - High Temperature Indicator
  - Low Temperature Indicator
  - Hydraulic System Locked Indicator
  - Warning Indicator

- LCD display
  - Battery Level Bar
  - Fasten Seat Belt
  - Two-speed - Rabbit
  - Battery Charging Symbol
  - Motor Speed
  - Motor Hours

## Standard Features

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- 710 mm dozer blade / 1100 mm extended
- 180 mm rubber track
- Control console locks
- Double acting auxiliary hydraulics with quick couplers
- Electronically activated track expansion
- Electric Motor
- Horn
- Hydraulic oil cooler
- Hydraulically expandable undercarriage from 710 to 1100 mm
- Lithium-ion batteries
- Machine IQ (telematic)
- Object handling device (lifteye)
- On-board charger 230V
- Retractable seat belt
- Seat
- Two-speed travel
- TOPS canopy <sup>1</sup>
- Vandalism protection
- Work LED light
- Warranty: 24 months, 2000 hours (whichever occurs first)

## Options

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- Auxiliary on arm
- Beacon
- Supercharger unit 400V
- Travel motion alarm
- Demolition package (arm, bucket cylinder covers & HD travel hoses guard)

## Attachments

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- Breaker Accessories
- Breakers
- Clayspade Buckets, Pin-on
- Digging Buckets, German Profile
- Digging Buckets, Pin-on
- Grading Buckets, Pin-on
- Laser Equipment

## Environmental

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|  |                       |
|--|-----------------------|
| Noise level LpA(EU Directive 2006/42/EC) | 72 dB(A)              |
| Noise level LWA(EU Directive 2000/14/EC) | 85 dB(A)              |
| Whole body vibration (ISO 2631-1)        | 0.68 ms <sup>-2</sup> |
| Hand-arm vibration (ISO 5349-1)          | 0.70 ms <sup>-2</sup> |

1. Tip Over Protective Structure (TOPS) – Meets requirements of ISO 12117

## Safety

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Retractable seat belt, standard  
Operator cab, standard

Grab handles, standard  
Safety tread, standard

Front working lights, standard  
Control lockout, standard

Upper carriage slew lock, standard

Pedal lock, standard  
Travel motion alarm, optional  
Special applications kit, optional  
Operator's handbook, standard

Should always be worn when operating the excavator  
A two-post canopy or optional closed cab. Meets ISO 12117 for Tip Over Protective Structure (TOPS).  
Should always be used when entering/exiting excavator.  
Slip resistant tread on canopy threshold to be used when entering/exiting excavator.  
Use for indoor and low light operation.  
Operator console locks out work group and travel functions when in the upright position.  
A lock pin is provided to lock the upper structure to the undercarriage for transport.  
Prevents activation of the boom swing function.  
For use when required

Weather-resistant operator handbook attached to the underneath of the seat, providing operational instructions and warnings decals with pictorials and international symbols.