

**V O L V O**



Volvo Electric Crawler Excavator 21.6 - 26.2 t / 47,540 - 57,680 lb

# **EC230 ELECTRIC**

Volvo Construction Equipment

# EC230 ELECTRIC

A general-purpose machine that will lower your total cost of ownership thanks to being electric.



# Quiet sustainable power

This is a general-purpose machine designed for extraction, earthmoving and grading for site preparation as well as waste- and scrap handling. The EC230 Electric is based on the conventional diesel-powered EC230, and will deliver the same performance, if not better, with the added benefits of zero emissions, low noise, and low total cost of ownership.



## Charging facts

- Operating time 7 to 8 hrs depending on application
- Fully compatible with a CCS 1-Plug
- 600 V Platform
- North America charging machine capacity: Max 250 kw
- Volvo Cube Battery



## Productivity

- Low vibrations and noise for operator
- Boom float function
- Volvo Smart View
- Attachment Management System



## Functions and options

- Dynamic rpm control (DRC) mode
- Cooling capacity (47°) and reversible fan
- Ready to run - battery pre-heating/cooling
- Parking climate function
- Auto lubrication system (ALS)
- Lower wiper, air gun & tool box-storage



## Serviceability

- Maintenance-free electric motor
- No engine-related components and maintenance requirements
- Ground-level service access
- Newly designed electric control cabinet-positioned on the side of upper frame



## A clean, smart choice

- No engine-related consumables
- A zero-emission, quiet power source that can work in low carbon zones
- Ability to work indoor and noise sensitive areas
- Work a full shift thanks to fast charge time

# Volvo EC230 Electric in detail

## Battery

|                                               |                               |           |
|-----------------------------------------------|-------------------------------|-----------|
| Battery Type                                  | Lithium-ion (NCA)             |           |
| Battery Voltage                               | V                             | 650       |
| Battery capacity (full package)               | kWh                           | 450       |
|                                               | Ah                            | 689       |
| Indicative runtime (depending on application) | hours                         | 7-8       |
| DC charging capacity                          | kW                            | up to 250 |
| Charging protocol                             | CCS1                          |           |
| Operating ambient temperature                 | -25 to 47°C<br>(-13 to 117°F) |           |

## Electrical Motor

|                          |                                              |           |
|--------------------------|----------------------------------------------|-----------|
| Motor type               | PMSM<br>(Permanent Magnet Synchronous Motor) |           |
| Motor power (peak)       | kW (hp)                                      | 160 (215) |
| Motor power (continuous) | kW (hp)                                      | 110 (148) |

## Electrical system

|                                                                                                                                                                                                                                        |    |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------|
| Well protected high-capacity electrical system. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard. |    |        |
| Voltage                                                                                                                                                                                                                                | V  | 24     |
| Batteries                                                                                                                                                                                                                              | V  | 2 x 12 |
| Battery capacity                                                                                                                                                                                                                       | Ah | 40     |

## Travel System

|                                                                                                                                                                                                                                    |             |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|
| Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame. |             |              |
| Max. drawbar pull                                                                                                                                                                                                                  | kN (lbf)    | 178 (40,016) |
| Max. travel speed (low)                                                                                                                                                                                                            | km/h (mi/h) | 3.4 (2.1)    |
| Max. travel speed (high)                                                                                                                                                                                                           | km/h (mi/h) | 5.6 (3.5)    |
| Gradeability                                                                                                                                                                                                                       | °           | 35           |

## Swing system

|                                                                                                                                                              |              |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|
| The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and antirebound valve are standard. |              |               |
| Max. slew speed                                                                                                                                              | r/min        | 11.5          |
| Max. slew torque                                                                                                                                             | kNm (ft lbf) | 83.3 (61,430) |

## Service Refill

|                         |         |                 |
|-------------------------|---------|-----------------|
| Hydraulic system, total | l (gal) | 240 (63)        |
| Hydraulic tank          | l (gal) | 120 (32)        |
| Electric Motor Coolant  | l (gal) | 2.3 (1)         |
| Engine coolant          | l (gal) | 42 (11)         |
| Slew reduction unit     | l (gal) | 4 (1)           |
| Travel reduction unit   | l (gal) | 2 x 3.5 (2 x 1) |

## Cab

|                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door. |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|

## Sound Level

|                                                                             |    |    |
|-----------------------------------------------------------------------------|----|----|
| Sound level in cab according to ISO 6396                                    |    |    |
| L <sub>pA</sub>                                                             | dB | 68 |
| External sound level according to ISO 6395, EU Noise Directive (2000/14/EC) |    |    |
| L <sub>WA</sub>                                                             | dB | 96 |

## Undercarriage and structures

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

|                                 |         |                                                            |
|---------------------------------|---------|------------------------------------------------------------|
| Track shoes                     |         | 2 x 49                                                     |
| Link pitch                      | mm (in) | 190 (7.5)                                                  |
| Shoe width                      | mm (in) | 600 (24)                                                   |
| Shoe width, triple grouser      | mm (in) | 500 / 600 / 700<br>/ 800 / 900<br>(20 / 24 / 28 / 32 / 36) |
| Shoe width, triple grouser (HD) | mm (in) | 600 (24)                                                   |
| Shoe width, double grouser      | mm (in) | 700 (28)                                                   |
| Bottom rollers                  |         | 2 x 8                                                      |
| Top rollers                     |         | 2 x 2                                                      |

## Hydraulic System

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high productivity and high-digging capacity.

The following important functions are included in the system:

**Summation system:** Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

**Boom priority:** Gives priority to the boom operation for faster raising when loading or performing deep excavations.

**Arm priority:** Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

**Swing priority:** Gives priority to swing functions for faster simultaneous operations.

**Regeneration system:** Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

**Power boost:** All digging and lifting forces are increased.

**Auto warm up:** Hydraulic oil temperature can be set below the threshold that has been set.

**Creep mode:** Lower travel speed (10%~50% of 1st full speed) can be set by creep switch on.

**Holding valves:** Boom and arm holding valves prevent the digging equipment from creeping.

### Main pump: 2 x Variable displacement axial piston pumps

|              |                 |                  |
|--------------|-----------------|------------------|
| Maximum flow | l/min (gal/min) | 2 x 208 (2 x 55) |
|--------------|-----------------|------------------|

### Pilot pump: Gear pump

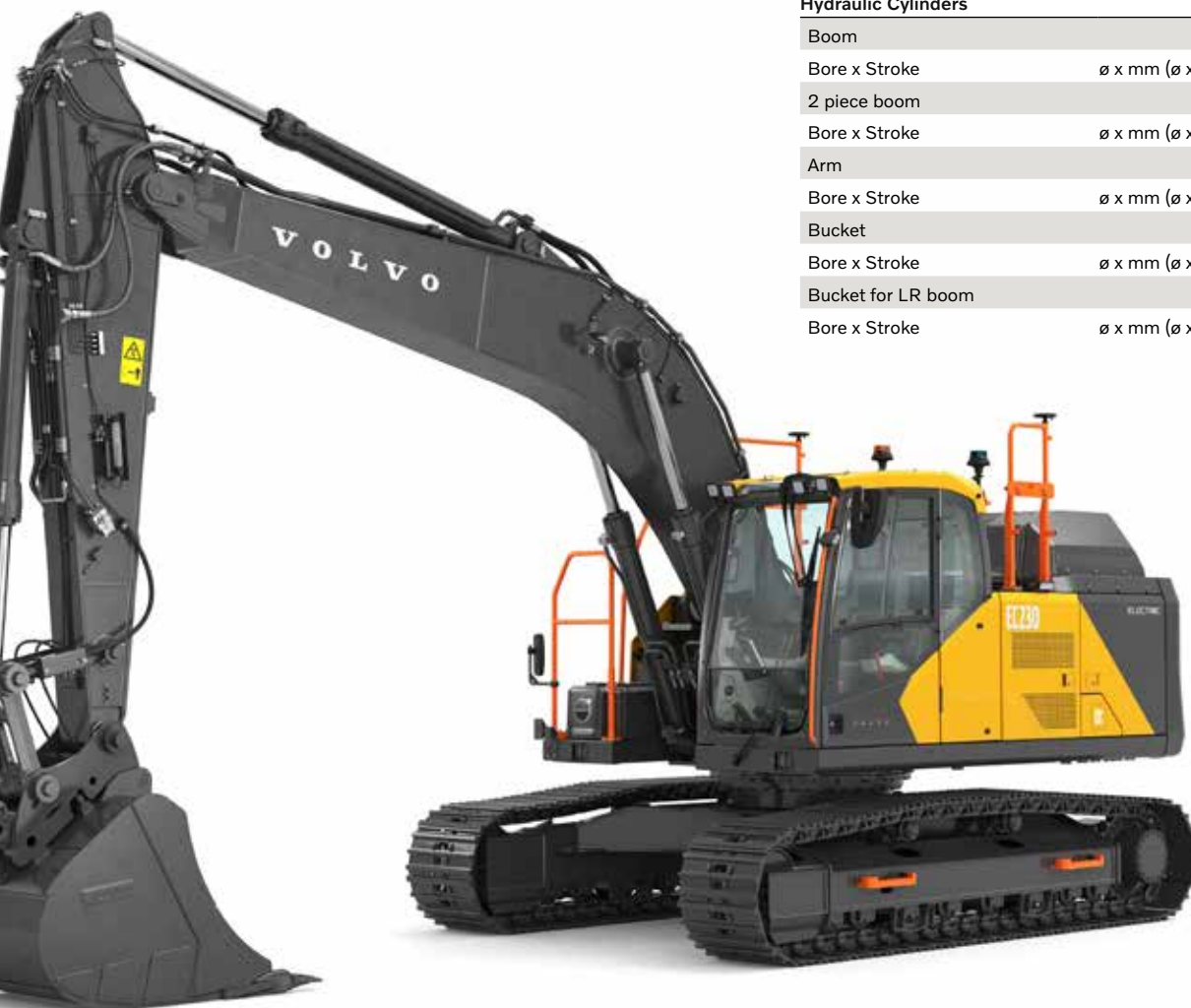
|              |                 |                |
|--------------|-----------------|----------------|
| Maximum flow | l/min (gal/min) | 1 x 16 (1 x 4) |
|--------------|-----------------|----------------|

### Max. pressure

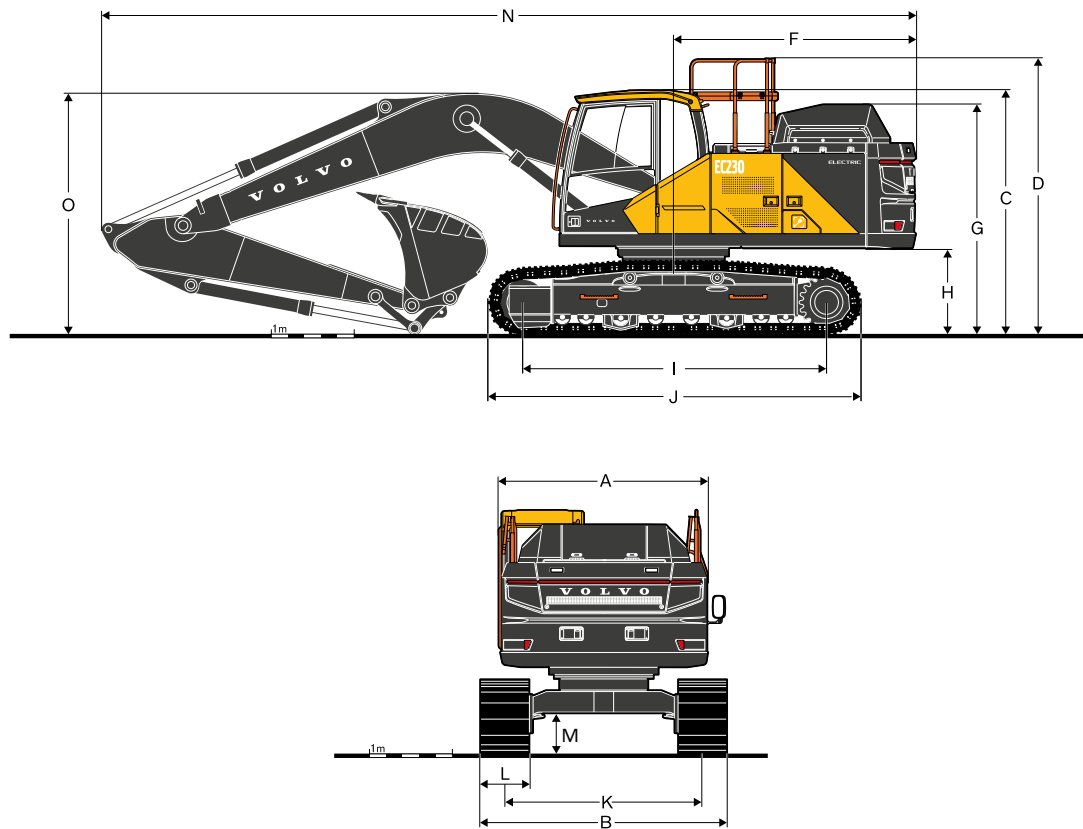
|                |           |                                |
|----------------|-----------|--------------------------------|
| Implement      | MPa (psi) | 34.3 / 36.3<br>(4,975 / 5,265) |
| Travel circuit | MPa (psi) | 34.3 (4,975)                   |
| Slew circuit   | MPa (psi) | 29.5 (4,279)                   |
| Pilot circuit  | MPa (psi) | 3.9 (570)                      |

## Hydraulic Cylinders

|                    |                 |                          |
|--------------------|-----------------|--------------------------|
| Boom               |                 | 2                        |
| Bore x Stroke      | ø x mm (ø x in) | 125 x 1 235 (4.9 x 48.6) |
| 2 piece boom       |                 | 1                        |
| Bore x Stroke      | ø x mm (ø x in) | 160 x 1 070 (6.3 x 42.1) |
| Arm                |                 | 1                        |
| Bore x Stroke      | ø x mm (ø x in) | 135 x 1 540 (5.3 x 60.6) |
| Bucket             |                 | 1                        |
| Bore x Stroke      | ø x mm (ø x in) | 120 x 1 065 (4.7 x 41.9) |
| Bucket for LR boom |                 | 1                        |
| Bore x Stroke      | ø x mm (ø x in) | 100 x 865 (3.9 x 34.1)   |



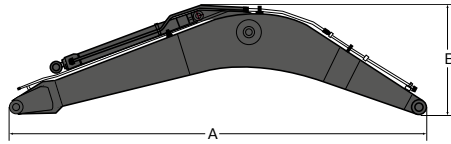
# Specifications



## DIMENSIONS

|                                     | Unit      |       | EC230F Electric L          |                |               |               |               |               |               |               |
|-------------------------------------|-----------|-------|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                     | m (ft in) |       | 5.7 (18'8") / 5.57 (18'3") |                |               |               |               |               |               |               |
| Boom                                | m         | ft in | 2.0                        | 6'7"           | 2.5           | 8'2"          | 2.9           | 9'6"          | 3.5           | 11'6"         |
| Arm                                 | m         | ft in | 2.0                        | 6'7"           | 2.5           | 8'2"          | 2.9           | 9'6"          | 3.5           | 11'6"         |
| A. Overall width of upper structure | mm        | ft in | 2,500                      | 8'2"           | 2,500         | 8'2"          | 2,500         | 8'2"          | 2,500         | 8'2"          |
| B. Overall width                    | mm        | ft in | 2,990                      | 9'10"          | 2,990         | 9'10"         | 2,990         | 9'10"         | 2,990         | 9'10"         |
| C. Overall height of cab            | mm        | ft in | 2,950                      | 9'8"           | 2,950         | 9'8"          | 2,950         | 9'8"          | 2,950         | 9'8"          |
| D. Overall height of handrail       | mm        | ft in | 2,945                      | 9'8"           | 2,945         | 9'8"          | 2,945         | 9'8"          | 2,945         | 9'8"          |
| E. Overall height of guardrail      | mm        | ft in | 3,320                      | 10'11"         | 3,320         | 10'11"        | 3,320         | 10'11"        | 3,320         | 10'11"        |
| F. Tail swing radius                | mm        | ft in | 2,910                      | 9'7"           | 2,910         | 9'7"          | 2,910         | 9'7"          | 2,910         | 9'7"          |
| G. Overall height of engine hood    | mm        | ft in | 2,785                      | 9'2"           | 2,785         | 9'2"          | 2,785         | 9'2"          | 2,785         | 9'2"          |
| H. Counterweight clearance *        | mm        | ft in | 1,005                      | 3'4"           | 1,005         | 3'4"          | 1,005         | 3'4"          | 1,005         | 3'4"          |
| I. Tumbler length                   | mm        | ft in | 3,660                      | 12'0"          | 3,660         | 12'0"         | 3,660         | 12'0"         | 3,660         | 12'0"         |
| J. Track length                     | mm        | ft in | 4,460                      | 14'8"          | 4,460         | 14'8"         | 4,460         | 14'8"         | 4,460         | 14'8"         |
| K. Track gauge                      | mm        | ft in | 2,390                      | 7'10"          | 2,390         | 7'10"         | 2,390         | 7'10"         | 2,390         | 7'10"         |
| L. Shoe width                       | mm        | ft in | 600                        | 2'0"           | 600           | 2'0"          | 600           | 2'0"          | 600           | 2'0"          |
| M. Min. ground clearance *          | mm        | ft in | 455                        | 1'6"           | 455           | 1'6"          | 455           | 1'6"          | 455           | 1'6"          |
| N. Overall length                   | mm        | ft in | 9,860 / 9,720              | 32'4" / 31'11" | 9,805 / 9,670 | 32'2" / 31'9" | 9,745 / 9,635 | 32'0" / 31'7" | 9,780 / 9,620 | 32'1" / 31'7" |
| O. Overall height of boom           | mm        | ft in | 3,155 / 3,065              | 10'4" / 10'1"  | 3,175 / 3,050 | 10'5" / 10'0" | 3,035 / 2,955 | 9'11" / 9'8"  | 3,170 / 3,285 | 10'5" / 10'9" |

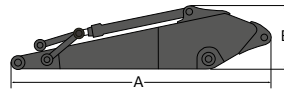
\* Without shoe grouser



#### DIMENSIONS

| Description | Unit      |       | Boom        |       |                      |       |
|-------------|-----------|-------|-------------|-------|----------------------|-------|
|             | m (ft in) |       | 5.7 (18'8") |       | 5.57 (18'3") 2-piece |       |
| A. Length   | mm        | ft in | 5,915       | 19'5" | 5,785                | 19'0" |
| B. Height   | mm        | ft in | 1,600       | 5'3"  | 1,420                | 4'8"  |
| Width       | mm        | ft in | 670         | 2'2"  | 670                  | 2'2"  |
| Weight      | kg        | lb    | 2,010       | 4,430 | 2,640                | 5,820 |

\* Includes cylinder, piping and pin, excludes boom cyl. Pin

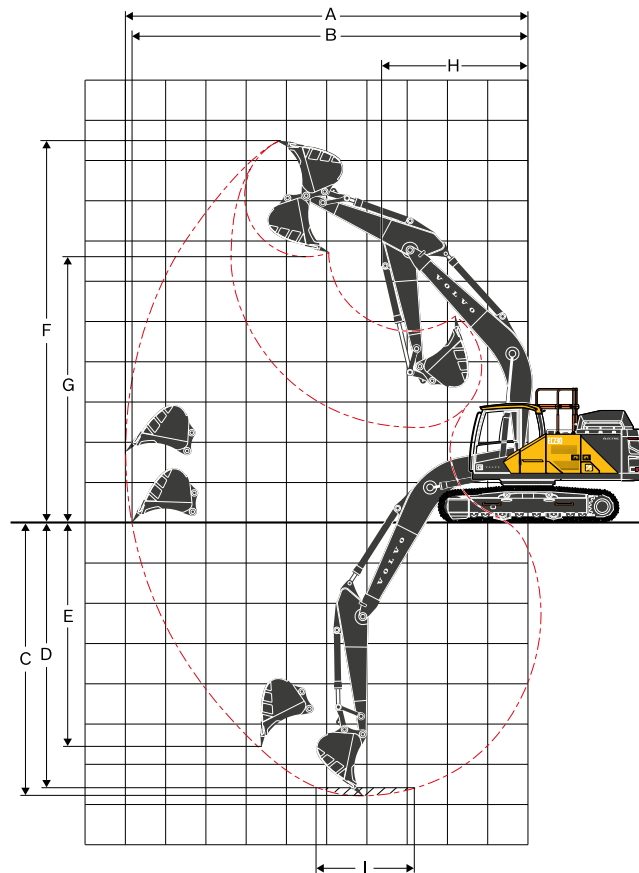


#### DIMENSIONS

| Description | Unit      |       | Arm        |       |            |       |            |       |             |        |
|-------------|-----------|-------|------------|-------|------------|-------|------------|-------|-------------|--------|
|             | m (ft in) |       | 2.0 (6'7") |       | 2.5 (8'2") |       | 2.9 (9'6") |       | 3.5 (11'6") |        |
| A. Length   | mm        | ft in | 3,070      | 10'1" | 3,530      | 11'7" | 3,895      | 12'9" | 4,540       | 14'11" |
| B. Height   | mm        | ft in | 980        | 3'3"  | 865        | 2'10" | 865        | 2'10" | 865         | 2'10"  |
| Width       | mm        | ft in | 440        | 1'5"  | 440        | 1'5"  | 440        | 1'5"  | 440         | 1'5"   |
| Weight      | kg        | lb    | 1,080      | 2,380 | 1,135      | 2,500 | 1,140      | 2,510 | 1,165       | 2,570  |

\* Includes cylinder, linkage and pin

# Specifications



## WORKING RANGES WITH DIRECT FIT BUCKET

| Description                                   | Unit      |       | EC230F Electric L |        |        |       |        |        |        |        |
|-----------------------------------------------|-----------|-------|-------------------|--------|--------|-------|--------|--------|--------|--------|
| Boom                                          | m (ft in) |       | 5.57 (18'3")      |        |        |       |        |        |        |        |
| Arm                                           | m         | ft in | 2.0               | 6'7"   | 2.5    | 8'2"  | 2.9    | 9'6"   | 3.5    | 11'6"  |
| A. Max. digging reach                         | mm        | ft in | 9,040             | 29'8"  | 9,505  | 31'2" | 9,900  | 32'6"  | 10,365 | 34'0"  |
| B. Max. digging reach on ground               | mm        | ft in | 8,870             | 29'1"  | 9,345  | 30'8" | 9,740  | 31'11" | 10,215 | 33'6"  |
| C. Max. digging depth                         | mm        | ft in | 5,505             | 18'1"  | 5,995  | 19'8" | 6,400  | 21'0"  | 6,945  | 22'9"  |
| D. Max. digging depth (l=2.44 m / 8'0" level) | mm        | ft in | 5,385             | 17'8"  | 5,885  | 19'4" | 6,295  | 20'8"  | 6,845  | 22'5"  |
| E. Max. vertical wall digging depth           | mm        | ft in | 4,125             | 13'6"  | 4,735  | 15'6" | 5,150  | 16'11" | 5,645  | 18'6"  |
| F. Max. cutting height                        | mm        | ft in | 10,015            | 32'10" | 10,395 | 34'1" | 10,715 | 35'2"  | 10,930 | 35'10" |
| G. Max. dumping height                        | mm        | ft in | 7,005             | 23'0"  | 7,365  | 24'2" | 7,680  | 25'2"  | 7,910  | 25'11" |
| H. Min. front swing radius                    | mm        | ft in | 2,895             | 9'6"   | 2,735  | 8'12" | 2,465  | 8'1"   | 2,740  | 8'12"  |

## DIGGING FORCES WITH DIRECT FIT BUCKET

| Bucket radius           |             |           | mm | ft in | 1,528 | 5'0"   | 1,528 | 5'0"   | 1,528 | 5'0"   | 1,528 | 5'0"   |
|-------------------------|-------------|-----------|----|-------|-------|--------|-------|--------|-------|--------|-------|--------|
| Breakout force (bucket) | Normal      | SAE J1179 | kN | lb    | 146   | 32,820 | 125   | 28,100 | 125   | 28,100 | 125   | 28,100 |
|                         | Power boost | SAE J1179 | kN | lb    | 154   | 34,620 | 132   | 29,670 | 132   | 29,670 | 132   | 29,670 |
|                         | Normal      | ISO 6015  | kN | lb    | 165   | 37,090 | 141   | 31,700 | 141   | 31,700 | 141   | 31,700 |
|                         | Power boost | ISO 6015  | kN | lb    | 174   | 39,120 | 149   | 33,500 | 149   | 33,500 | 149   | 33,500 |
| Tearout force (arm)     | Normal      | SAE J1179 | kN | lb    | 144   | 32,370 | 117   | 26,300 | 101   | 22,710 | 92    | 20,680 |
|                         | Power boost | SAE J1179 | kN | lb    | 153   | 34,400 | 124   | 27,880 | 107   | 24,050 | 97    | 21,810 |
|                         | Normal      | ISO 6015  | kN | lb    | 149   | 33,500 | 121   | 27,200 | 104   | 23,380 | 94    | 21,130 |
|                         | Power boost | ISO 6015  | kN | lb    | 158   | 35,520 | 128   | 28,780 | 110   | 24,730 | 99    | 22,260 |

Rotation angle, bucket

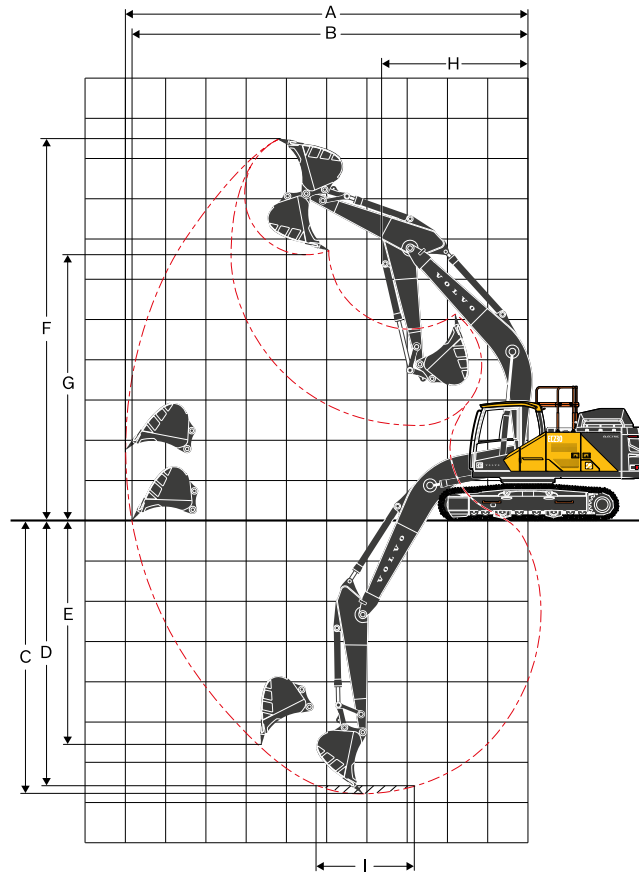
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#### WORKING RANGES WITH DIRECT FIT BUCKET

| Description                                   | Unit      |       | EC230F Electric L |       |       |       |       |        |        |        |
|-----------------------------------------------|-----------|-------|-------------------|-------|-------|-------|-------|--------|--------|--------|
| Boom                                          | m (ft in) |       | 5.7 (18'8")       |       |       |       |       |        |        |        |
| Arm                                           | m         | ft in | 2.0               | 6'7"  | 2.5   | 8'2"  | 2.9   | 9'6"   | 3.5    | 11'6"  |
| A. Max. digging reach                         | mm        | ft in | 9,145             | 30'0" | 9,605 | 31'6" | 9,995 | 32'10" | 10,450 | 34'3"  |
| B. Max. digging reach on ground               | mm        | ft in | 8,975             | 29'5" | 9,445 | 31'0" | 9,835 | 32'3"  | 10,305 | 33'10" |
| C. Max. digging depth                         | mm        | ft in | 5,925             | 19'5" | 6,425 | 21'1" | 6,825 | 22'5"  | 7,425  | 24'4"  |
| D. Max. digging depth (l=2.44 m / 8'0" level) | mm        | ft in | 5,670             | 18'7" | 6,205 | 20'4" | 6,635 | 21'9"  | 7,235  | 23'9"  |
| E. Max. vertical wall digging depth           | mm        | ft in | 4,315             | 14'2" | 5,070 | 16'8" | 5,535 | 18'2"  | 5,885  | 19'4"  |
| F. Max. cutting height                        | mm        | ft in | 8,925             | 29'3" | 9,205 | 30'2" | 9,445 | 31'0"  | 9,450  | 31'0"  |
| G. Max. dumping height                        | mm        | ft in | 6,090             | 20'0" | 6,330 | 20'9" | 6,555 | 21'6"  | 6,600  | 21'8"  |
| H. Min. front swing radius                    | mm        | ft in | 3,660             | 12'0" | 3,670 | 12'0" | 3,645 | 12'0"  | 3,630  | 11'11" |

#### DIGGING FORCES WITH DIRECT FIT BUCKET

| Bucket radius           |             |           | mm | ft in | 1,528 | 5'0"   | 1,528 | 5'0"   | 1,528 | 5'0"   | 1,528 | 5'0"   |
|-------------------------|-------------|-----------|----|-------|-------|--------|-------|--------|-------|--------|-------|--------|
| Breakout force (bucket) | Normal      | SAE J1179 | kN | lb    | 146   | 32,820 | 125   | 28,100 | 125   | 28,100 | 125   | 28,100 |
|                         | Power boost | SAE J1179 | kN | lb    | 154   | 34,620 | 132   | 29,670 | 132   | 29,670 | 132   | 29,670 |
|                         | Normal      | ISO 6015  | kN | lb    | 165   | 37,090 | 141   | 31,700 | 141   | 31,700 | 141   | 31,700 |
|                         | Power boost | ISO 6015  | kN | lb    | 174   | 39,120 | 149   | 33,500 | 149   | 33,500 | 149   | 33,500 |
| Tearout force (arm)     | Normal      | SAE J1179 | kN | lb    | 144   | 32,370 | 117   | 26,300 | 101   | 22,710 | 92    | 20,680 |
|                         | Power boost | SAE J1179 | kN | lb    | 153   | 34,400 | 124   | 27,880 | 107   | 24,050 | 97    | 21,810 |
|                         | Normal      | ISO 6015  | kN | lb    | 149   | 33,500 | 121   | 27,200 | 104   | 23,380 | 94    | 21,130 |
|                         | Power boost | ISO 6015  | kN | lb    | 158   | 35,520 | 128   | 28,780 | 110   | 24,730 | 99    | 22,260 |

Rotation angle, bucket

°

166

175

175

175

# Specifications

## GROUND PRESSURE

| Description    | Shoe width |         | Operating weight                                                                                                            |        | Ground pressure |     | Overall width |        | Operating weight                                                                                                                   |        | Ground pressure |     | Overall width |        |
|----------------|------------|---------|-----------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-----|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|-----|---------------|--------|
|                | mm         | in      | kg                                                                                                                          | lb     | kPa             | psi | mm            | ft in  | kg                                                                                                                                 | lb     | kPa             | psi | mm            | ft in  |
| Triple grouser | 500        | 20      | 22,690                                                                                                                      | 50,030 | 56.9            | 8.2 | 2,890         | 9'6"   | 23,110                                                                                                                             | 50,960 | 57.9            | 8.4 | 2,890         | 9'6"   |
|                | 600        | 24      | 22,950                                                                                                                      | 50,600 | 48.0            | 7.0 | 2,990         | 9'10"  | 23,370                                                                                                                             | 51,530 | 48.0            | 7.0 | 2,990         | 9'10"  |
|                | 600 (HD)   | 24 (HD) | 23,120                                                                                                                      | 50,980 | 48.0            | 7.0 | 2,990         | 9'10"  | 23,530                                                                                                                             | 51,880 | 49.0            | 7.1 | 2,990         | 9'10"  |
|                | 700        | 28      | 23,410                                                                                                                      | 51,620 | 41.2            | 6.0 | 3,090         | 10'2"  | 23,820                                                                                                                             | 52,520 | 42.2            | 6.1 | 3,090         | 10'2"  |
|                | 800        | 32      | 23,690                                                                                                                      | 52,240 | 37.3            | 5.4 | 3,190         | 10'6"  | 24,110                                                                                                                             | 53,160 | 37.3            | 5.4 | 3,190         | 10'6"  |
|                | 900        | 36      | 23,980                                                                                                                      | 52,880 | 33.3            | 4.8 | 3,290         | 10'10" | 24,390                                                                                                                             | 53,780 | 33.3            | 4.8 | 3,290         | 10'10" |
| Single grouser | 600        | 24      | 23,090                                                                                                                      | 50,910 | 48.0            | 7.0 | 2,990         | 9'10"  | 23,500                                                                                                                             | 51,820 | 49.0            | 7.1 | 2,990         | 9'10"  |
| Double grouser | 700        | 28      | 23,670                                                                                                                      | 52,190 | 42.2            | 6.1 | 3,090         | 10'2"  | 24,080                                                                                                                             | 53,100 | 43.1            | 6.3 | 3,090         | 10'2"  |
|                |            |         | EC230F Electric L, 5.7 m / 18'8" GP boom, 2.9 m / 9'6" GP arm, 909 kg / 2,000 lb bucket, 2,600 kg / 5,730 lb counterweight  |        |                 |     |               |        | EC230F Electric L, 5.57 m / 18'3" 2-pieces boom, 2.9 m / 9'6" GP arm, 909 kg / 2,000 lb bucket, 2,600 kg / 5,730 lb counterweight  |        |                 |     |               |        |
| Description    | Shoe width |         | Operating weight                                                                                                            |        | Ground pressure |     | Overall width |        | Operating weight                                                                                                                   |        | Ground pressure |     | Overall width |        |
|                | mm         | in      | kg                                                                                                                          | lb     | kPa             | psi | mm            | ft in  | kg                                                                                                                                 | lb     | kPa             | psi | mm            | ft in  |
| Triple grouser | 500        | 20      | 22,810                                                                                                                      | 50,300 | 56.9            | 8.2 | 2,890         | 9'6"   | 23,220                                                                                                                             | 51,200 | 57.9            | 8.4 | 2,890         | 9'6"   |
|                | 600        | 24      | 23,060                                                                                                                      | 50,850 | 48.0            | 7.0 | 2,990         | 9'10"  | 23,480                                                                                                                             | 51,770 | 49.0            | 7.1 | 2,990         | 9'10"  |
|                | 600 (HD)   | 24 (HD) | 23,230                                                                                                                      | 51,220 | 48.0            | 7.0 | 2,990         | 9'10"  | 23,650                                                                                                                             | 52,150 | 49.0            | 7.1 | 2,990         | 9'10"  |
|                | 700        | 28      | 23,520                                                                                                                      | 51,860 | 42.2            | 6.1 | 3,090         | 10'2"  | 23,930                                                                                                                             | 52,770 | 42.2            | 6.1 | 3,090         | 10'2"  |
|                | 800        | 32      | 23,810                                                                                                                      | 52,500 | 37.3            | 5.4 | 3,190         | 10'6"  | 24,220                                                                                                                             | 53,410 | 37.3            | 5.4 | 3,190         | 10'6"  |
|                | 900        | 36      | 24,090                                                                                                                      | 53,120 | 33.3            | 4.8 | 3,290         | 10'10" | 24,510                                                                                                                             | 54,040 | 34.3            | 5.0 | 3,290         | 10'10" |
| Single grouser | 600        | 24      | 23,200                                                                                                                      | 51,160 | 48.0            | 7.0 | 2,990         | 9'10"  | 23,610                                                                                                                             | 52,060 | 49.0            | 7.1 | 2,990         | 9'10"  |
| Double grouser | 700        | 28      | 23,780                                                                                                                      | 52,430 | 42.2            | 6.1 | 3,090         | 10'2"  | 24,200                                                                                                                             | 53,360 | 43.1            | 6.3 | 3,090         | 10'2"  |
|                |            |         | EC230F Electric L, 5.7 m / 18'8" GP boom, 3.5 m / 11'6" GP arm, 909 kg / 2,000 lb bucket, 2,600 kg / 5,730 lb counterweight |        |                 |     |               |        | EC230F Electric L, 5.57 m / 18'3" 2-pieces boom, 3.5 m / 11'6" GP arm, 909 kg / 2,000 lb bucket, 2,600 kg / 5,730 lb counterweight |        |                 |     |               |        |

# BUCKET SELECTION GUIDE

EC230F Electric L with 600 mm (24") shoe, 4,600 kg (10,140 lb) counterweight

| Bucket Type |    | Capacity |      | Cutting width |       | Weight |       | Teeth | Recommended maximum material density (kg/m³ / lb/yd³) |                  |                  |                  |                  |                   |       |       |       |       |
|-------------|----|----------|------|---------------|-------|--------|-------|-------|-------------------------------------------------------|------------------|------------------|------------------|------------------|-------------------|-------|-------|-------|-------|
|             |    |          |      |               |       |        |       |       | 5.7 m (18'8") GP Boom                                 |                  |                  |                  |                  |                   |       |       |       |       |
|             |    | L        | yd³  | mm            | ft in | kg     | lb    |       | EA                                                    | 2.0 m (6'7") Arm | 2.5 m (8'2") Arm | 2.9 m (9'6") Arm | 2.9 m (9'6") Arm | 3.5 m (11'6") Arm |       |       |       |       |
| V4          | GP | 480      | 0.63 | 600           | 23.6  | 666    | 1,468 | 3     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 590      | 0.77 | 750           | 29.5  | 711    | 1,568 | 3     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 630      | 0.82 | 800           | 31.5  | 703    | 1,550 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 750      | 0.98 | 900           | 35.4  | 749    | 1,652 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 862    | 1,900 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 819    | 1,806 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 908    | 2,002 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 951    | 2,096 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,270    | 1.66 | 1,350         | 53.1  | 1,038  | 2,289 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,700 | 2,865 |
|             |    | 1,270    | 1.66 | 1,350         | 53.1  | 995    | 2,195 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,440    | 1.88 | 1,500         | 59.1  | 1,085  | 2,392 | 6     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,700            | 2,865             | 1,700 | 2,865 | 1,500 | 2,500 |
|             |    | 1,320    | 1.73 | 1,420         | 55.9  | 999    | 2,202 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,700 | 2,865 |
|             |    | 1,320    | 1.73 | 1,420         | 55.9  | 1,041  | 2,296 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,600 | 2,700 |
|             | HD | 480      | 0.63 | 600           | 23.6  | 738    | 1,628 | 3     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 480      | 0.63 | 600           | 23.6  | 675    | 1,488 | 3     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 750      | 0.98 | 900           | 35.4  | 872    | 1,922 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 750      | 0.98 | 900           | 35.4  | 808    | 1,783 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 951    | 2,098 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 888    | 1,959 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 1,046  | 2,307 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,000 | 3,370 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 983    | 2,168 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 1,270    | 1.66 | 1,380         | 54.3  | 1,045  | 2,305 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,000            | 3,370             | 1,900 | 3,200 | 1,700 | 2,865 |
|             |    | 1,270    | 1.66 | 1,380         | 54.3  | 1,108  | 2,443 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 1,900            | 3,200             | 1,900 | 3,200 | 1,700 | 2,865 |
| Bucket Type |    | Capacity |      | Cutting width |       | Weight |       | Teeth | Recommended maximum material density (kg/m³ / lb/yd³) |                  |                  |                  |                  |                   |       |       |       |       |
|             |    |          |      |               |       |        |       |       | 5.57 m (18'3") VA Boom                                |                  |                  |                  |                  |                   |       |       |       |       |
|             |    | L        | yd³  | mm            | ft in | kg     | lb    |       | EA                                                    | 2.0 m (6'7") Arm | 2.5 m (8'2") Arm | 2.9 m (9'6") Arm | 2.9 m (9'6") Arm | 3.5 m (11'6") Arm |       |       |       |       |
| V4          | GP | 480      | 0.63 | 600           | 23.6  | 666    | 1,468 | 3     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 590      | 0.77 | 750           | 29.5  | 711    | 1,568 | 3     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 630      | 0.82 | 800           | 31.5  | 703    | 1,550 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 750      | 0.98 | 900           | 35.4  | 749    | 1,652 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 862    | 1,900 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 819    | 1,806 | 4     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 908    | 2,002 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 951    | 2,096 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,270    | 1.66 | 1,350         | 53.1  | 1,038  | 2,289 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,700 | 2,865 |
|             |    | 1,270    | 1.66 | 1,350         | 53.1  | 995    | 2,195 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,800 | 3,100 |
|             |    | 1,440    | 1.88 | 1,500         | 59.1  | 1,085  | 2,392 | 6     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,700            | 2,865             | 1,700 | 2,865 | 1,500 | 2,530 |
|             |    | 1,320    | 1.73 | 1,420         | 55.9  | 999    | 2,202 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,700 | 2,865 |
|             |    | 1,320    | 1.73 | 1,420         | 55.9  | 1,041  | 2,296 | 5     | 1,800                                                 | 3,100            | 1,800            | 3,100            | 1,800            | 3,100             | 1,800 | 3,100 | 1,700 | 2,865 |
|             | HD | 480      | 0.63 | 600           | 23.6  | 738    | 1,628 | 3     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 480      | 0.63 | 600           | 23.6  | 675    | 1,488 | 3     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 750      | 0.98 | 900           | 35.4  | 872    | 1,922 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 750      | 0.98 | 900           | 35.4  | 808    | 1,783 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 951    | 2,098 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 920      | 1.2  | 1,050         | 41.3  | 888    | 1,959 | 4     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 1,046  | 2,307 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,000 | 3,370 |
|             |    | 1,090    | 1.43 | 1,200         | 47.2  | 983    | 2,168 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,100            | 3,500             | 2,100 | 3,500 | 2,100 | 3,500 |
|             |    | 1,270    | 1.66 | 1,380         | 54.3  | 1,045  | 2,305 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 2,000            | 3,370             | 2,000 | 3,370 | 1,700 | 2,865 |
|             |    | 1,270    | 1.66 | 1,380         | 54.3  | 1,108  | 2,443 | 5     | 2,100                                                 | 3,500            | 2,100            | 3,500            | 1,900            | 3,200             | 1,900 | 3,200 | 1,700 | 2,865 |

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application. The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

**Maximum material density**  
D: 2,100 kg/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)  
C: 1,800 kg/m<sup>3</sup> (3,100 lb/yd<sup>3</sup>)  
B: 1,500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)  
A: 1,200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)  
X : Not recommended

# Specifications

## LIFTING CAPACITY EC230F Electric L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

|                                                                                                                            | Lifting<br>hook<br>related<br>to<br>ground<br>level |    | 1.5 m / 5 ft |              | 3.0 m / 10 ft |              | 4.5 m / 15 ft |              | 6.0 m / 20 ft |              | 7.5 m / 25 ft |              | Max. reach  |              | Max.    |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|-------------|--------------|---------|
|                                                                                                                            |                                                     |    | Along<br>UC  | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC | Across<br>UC |         |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.0 m ME<br>6'7" ME<br>Shoe :<br>600 mm<br>24"<br>CWT :<br>2,600 kg<br>5,730 lb | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *6,210      | *6,210       | 4.92 m  |
|                                                                                                                            | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *13,800     | *13,800      | 15.6 ft |
|                                                                                                                            | 6 m                                                 | kg |              |              |               |              |               |              | *5,950        | 5,500        |               |              | *5,990      | 5,070        | 6.29 m  |
|                                                                                                                            | 20 ft                                               | lb |              |              |               |              |               |              | *13,150       | 11,810       |               |              | *13,220     | 11,390       | 20.4 ft |
|                                                                                                                            | 4.5 m                                               | kg |              |              |               |              | *7,550        | *7,550       | *6,330        | 5,350        |               |              | *6,030      | 4,110        | 7.1 m   |
|                                                                                                                            | 15 ft                                               | lb |              |              |               |              | *16,270       | *16,270      | *13,790       | 11,530       |               |              | *13,280     | 9,130        | 23.2 ft |
|                                                                                                                            | 3 m                                                 | kg |              |              |               |              | *9,500        | 7,620        | *7,120        | 5,100        | 6,120         | 3,680        | 6,100       | 3,670        | 7.51 m  |
|                                                                                                                            | 10 ft                                               | lb |              |              |               |              | *20,410       | 16,470       | *15,440       | 11,010       |               |              | 13,480      | 8,110        | 24.6 ft |
|                                                                                                                            | 1.5 m                                               | kg |              |              |               |              |               |              | *7,890        | 4,870        | 6,020         | 3,590        | 5,890       | 3,510        | 7.61 m  |
|                                                                                                                            | 5 ft                                                | lb |              |              |               |              |               |              | *17,100       | 10,530       |               |              | 12,990      | 7,750        | 25.0 ft |
|                                                                                                                            | 0 m                                                 | kg |              |              |               |              | *11,400       | 7,040        | 8,230         | 4,750        |               |              | 6,070       | 3,600        | 7.4 m   |
|                                                                                                                            | 0 ft                                                | lb |              |              |               |              | *24,710       | 15,180       | 17,720        | 10,250       |               |              | 13,400      | 7,940        | 24.3 ft |
|                                                                                                                            | -1.5 m                                              | kg |              |              |               |              | *11,020       | 7,070        | *8,200        | 4,740        |               |              | 6,790       | 4,000        | 6.86 m  |
|                                                                                                                            | -5 ft                                               | lb |              |              |               |              | *23,920       | 15,230       | 17,700        | 10,230       |               |              | 15,010      | 8,830        | 22.5 ft |
|                                                                                                                            | -3 m                                                | kg |              |              | *13,170       | *13,170      | *9,790        | 7,230        |               |              |               |              | *7,230      | 5,010        | 5.89 m  |
|                                                                                                                            | -10 ft                                              | lb |              |              | *28,600       | *28,600      | *21,140       | 15,590       |               |              |               |              | *15,960     | 11,170       | 19.2 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.5 m HD<br>8'2" HD<br>Shoe :<br>600 mm<br>24"<br>CWT :<br>2,600 kg<br>5,730 lb | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *5,560      | *5,560       | 5.61 m  |
|                                                                                                                            | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *12,310     | *12,310      | 18.0 ft |
|                                                                                                                            | 6 m                                                 | kg |              |              |               |              |               |              | *5,380        | *5,380       |               |              | *5,480      | 4,490        | 6.85 m  |
|                                                                                                                            | 20 ft                                               | lb |              |              |               |              |               |              | *11,840       | *11,840      |               |              | *12,080     | 10,050       | 22.3 ft |
|                                                                                                                            | 4.5 m                                               | kg |              |              |               |              | *6,830        | *6,830       | *5,880        | 5,430        | *5,550        | 3,810        | *5,550      | 3,730        | 7.59 m  |
|                                                                                                                            | 15 ft                                               | lb |              |              |               |              | *14,750       | *14,750      | *12,800       | 11,700       |               |              | *12,230     | 8,290        | 24.8 ft |
|                                                                                                                            | 3 m                                                 | kg |              |              |               |              | *8,800        | 7,790        | *6,740        | 5,160        | *5,840        | 3,710        | 5,580       | 3,360        | 7.98 m  |
|                                                                                                                            | 10 ft                                               | lb |              |              |               |              | *18,930       | 16,840       | *14,610       | 11,140       | *12,770       | 7,990        | 12,340      | 7,440        | 26.2 ft |
|                                                                                                                            | 1.5 m                                               | kg |              |              |               |              | *10,530       | 7,280        | *7,610        | 4,910        | 6,030         | 3,590        | 5,400       | 3,230        | 8.07 m  |
|                                                                                                                            | 5 ft                                                | lb |              |              |               |              | *22,720       | 15,720       | *16,500       | 10,600       | 12,990        | 7,750        | 11,920      | 7,130        | 26.5 ft |
|                                                                                                                            | 0 m                                                 | kg |              |              |               |              | *11,310       | 7,050        | *8,190        | 4,750        | 5,940         | 3,510        | 5,540       | 3,290        | 7.88 m  |
|                                                                                                                            | 0 ft                                                | lb |              |              |               |              | *24,500       | 15,200       | 17,730        | 10,250       | 12,800        | 7,590        | 12,220      | 7,260        | 25.8 ft |
|                                                                                                                            | -1.5 m                                              | kg |              |              | *10,740       | *10,740      | *11,240       | 7,020        | 8,170         | 4,700        |               |              | 6,080       | 3,590        | 7.37 m  |
|                                                                                                                            | -5 ft                                               | lb |              |              | *24,540       | *24,540      | *24,360       | 15,130       | 17,600        | 10,140       |               |              | 13,450      | 7,940        | 24.1 ft |
|                                                                                                                            | -3 m                                                | kg |              |              | *14,460       | 13,670       | *10,330       | 7,130        | *7,610        | 4,780        |               |              | *6,830      | 4,340        | 6.48 m  |
|                                                                                                                            | -10 ft                                              | lb |              |              | *31,360       | 29,330       | *22,350       | 15,370       | *16,350       | 10,330       |               |              | *15,080     | 9,650        | 21.1 ft |
|                                                                                                                            | -4.5 m                                              | kg |              |              | *11,160       | *11,160      | *7,960        | 7,430        |               |              |               |              | *6,960      | 6,460        | 4.98 m  |
|                                                                                                                            | -15 ft                                              | lb |              |              | *23,840       | *23,840      | *16,810       | 16,080       |               |              |               |              | *15,320     | 14,680       | 16.0 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# LIFTING CAPACITY EC230F Electric L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

|                                                                                                                             | Lifting<br>hook<br>related<br>to<br>ground<br>level |    | 1.5 m / 5 ft |              | 3.0 m / 10 ft |              | 4.5 m / 15 ft |              | 6.0 m / 20 ft |              | 7.5 m / 25 ft |              | Max. reach  |              | Max.    |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|-------------|--------------|---------|
|                                                                                                                             |                                                     |    | Along<br>UC  | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC | Across<br>UC |         |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.9 m HD<br>9'6" HD<br>Shoe :<br>600 mm<br>24"<br>CWT :<br>2,600 kg<br>5,730 lb  | 7.5 m                                               | kg |              |              |               |              |               |              | *5,070        | *5,070       |               |              | *4,900      | *4,900       | 6.16 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *10,900     | *10,900      | 19.8 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              | *4,960        | *4,960       |               |              | *4,560      | 4,080        | 7.3 m   |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              | *10,900       | *10,900      |               |              | *10,080     | 9,130        | 23.8 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              |               |              | *5,510        | 5,510        | *5,200        | 3,860        | *4,500      | 3,450        | 8.0 m   |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              |               |              | *12,010       | 11,880       | *11,440       | 8,300        | *9,920      | 7,670        | 26.2 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              |               |              | *8,220        | 7,950        | *6,410        | 5,230        | *5,590        | 3,740        | *4,620      | 3,140        | 8.37 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              |               |              | *17,700       | 17,170       | *13,910       | 11,280       | *12,200       | 8,060        | *10,170     | 6,940        | 27.4 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *10,090       | 7,360        | *7,350        | 4,950        | 6,050         | 3,610        | *4,940      | 3,020        | 8.46 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *21,770       | 15,900       | *15,940       | 10,680       | 13,030        | 7,780        | *10,860     | 6,660        | 27.8 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              | *5,360        | *5,360       | *11,130       | 7,050        | *8,040        | 4,750        | 5,930         | 3,510        | 5,160       | 3,060        | 8.27 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              | *12,420       | *12,420      | *24,080       | 15,210       | *17,440       | 10,260       | 12,790        | 7,570        | 11,370      | 6,760        | 27.1 ft |
|                                                                                                                             | -1.5 m                                              | kg | *6,200       | *6,200       | *10,250       | *10,250      | *11,290       | 6,970        | 8,150         | 4,670        | 5,900         | 3,470        | 5,600       | 3,310        | 7.79 m  |
|                                                                                                                             | -5 ft                                               | lb | *13,910      | *13,910      | *23,320       | *23,320      | *24,470       | 15,020       | 17,550        | 10,080       | 12,730        | 7,510        | 12,380      | 7,320        | 25.5 ft |
|                                                                                                                             | -3 m                                                | kg | *11,310      | *11,310      | *15,270       | 13,460       | *10,650       | 7,040        | *7,870        | 4,710        |               |              | *6,470      | 3,900        | 6.95 m  |
|                                                                                                                             | -10 ft                                              | lb | *25,420      | *25,420      | *33,100       | 28,890       | *23,040       | 15,190       | *16,980       | 10,190       |               |              | *14,280     | 8,680        | 22.7 ft |
|                                                                                                                             | -4.5 m                                              | kg |              |              | *12,420       | *12,420      | *8,820        | 7,290        |               |              |               |              | *6,710      | 5,420        | 5.59 m  |
|                                                                                                                             | -15 ft                                              | lb |              |              | *26,640       | *26,640      | *18,830       | 15,760       |               |              |               |              | *14,820     | 12,220       | 18.1 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>3.5 m GP<br>11'6" GP<br>Shoe :<br>600 mm<br>24"<br>CWT :<br>2,600 kg<br>5,730 lb | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *4,190      | *4,190       | 6.78 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *9,300      | *9,300       | 21.9 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              |               |              | *4,500        | 3,980        | *3,970      | 3,680        | 7.83 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              |               |              | *9,830        | 8,540        | *8,780      | 8,220        | 25.5 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              |               |              | *4,900        | *4,900       | *4,700        | 3,910        | *3,960      | 3,160        | 8.49 m  |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              |               |              | *10,690       | *10,690      | *10,330       | 8,410        | *8,720      | 7,010        | 27.8 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              | *11,100       | *11,100      | *7,280        | *7,280       | *5,860        | 5,300        | *5,170        | 3,770        | *4,090      | 2,880        | 8.84 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              | *23,600       | *23,600      | *15,690       | *15,690      | *12,710       | 11,440       | *11,290       | 8,120        | *9,000      | 6,370        | 29.0 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *9,350        | 7,520        | *6,900        | 5,000        | *5,730        | 3,610        | *4,380      | 2,770        | 8.92 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *20,180       | 16,230       | *14,970       | 10,790       | *12,470       | 7,790        | *9,640      | 6,110        | 29.3 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              | *6,980        | *6,980       | *10,750       | 7,110        | *7,750        | 4,760        | 5,920         | 3,480        | 4,730       | 2,800        | 8.74 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              | *16,000       | *16,000      | *23,260       | 15,330       | *16,810       | 10,280       | 12,750        | 7,520        | 10,420      | 6,170        | 28.7 ft |
|                                                                                                                             | -1.5 m                                              | kg | *6,140       | *6,140       | *10,240       | *10,240      | *11,270       | 6,940        | 8,120         | 4,640        | 5,840         | 3,420        | 5,070       | 2,980        | 8.29 m  |
|                                                                                                                             | -5 ft                                               | lb | *13,740      | *13,740      | *23,260       | *23,260      | *24,420       | 14,970       | 17,470        | 10,010       | 12,590        | 7,370        | 11,200      | 6,600        | 27.2 ft |
|                                                                                                                             | -3 m                                                | kg | *10,060      | *10,060      | *15,150       | 13,290       | *10,990       | 6,950        | *8,080        | 4,630        | 5,870         | 3,440        | 5,860       | 3,440        | 7.51 m  |
|                                                                                                                             | -10 ft                                              | lb | *22,580      | *22,580      | *34,460       | 28,510       | *23,790       | 14,990       | 17,460        | 9,990        |               |              | 13,000      | 7,630        | 24.5 ft |
|                                                                                                                             | -4.5 m                                              | kg | *15,090      | *15,090      | *14,010       | 13,630       | *9,720        | 7,120        | *7,010        | 4,760        |               |              | *6,550      | 4,490        | 6.27 m  |
|                                                                                                                             | -15 ft                                              | lb | *34,090      | *34,090      | *30,160       | 29,270       | *20,890       | 15,360       | *14,890       | 10,310       |               |              | *14,490     | 10,090       | 20.3 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.0 m ME<br>6'7" ME<br>Shoe :<br>700 mm<br>28"<br>CWT :<br>2,600 kg<br>5,730 lb  | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *6,210      | *6,210       | 4.92 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *13,800     | *13,800      | 15.6 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              | *5,950        | 5,700        |               |              | *5,990      | 5,260        | 6.29 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              | *13,150       | 12,240       |               |              | *13,220     | 11,800       | 20.4 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              | *7,550        | *7,550       | *6,330        | 5,550        |               |              | *6,030      | 4,260        | 7.1 m   |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              | *16,270       | *16,270      | *13,790       | 11,960       |               |              | *13,280     | 9,470        | 23.2 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              |               |              | *9,500        | 7,920        | *7,120        | 5,290        | *6,180        | 3,820        | *6,170      | 3,810        | 7.51 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              |               |              | *20,410       | 17,130       | *15,440       | 11,440       |               |              | *13,600     | 8,430        | 24.6 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              |               |              | *7,890        | 5,070        | 6,120         | 3,730        | 5,990       | 3,650        | 7.61 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              |               |              | *17,100       | 10,950       |               |              | 13,210      | 8,060        | 25.0 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              |               |              | *11,400       | 7,340        | *8,320        | 4,940        |               |              | 6,180       | 3,750        | 7.4 m   |
|                                                                                                                             | 0 ft                                                | lb |              |              |               |              | *24,710       | 15,830       | 18,020        | 10,670       |               |              | 13,630      | 8,260        | 24.3 ft |
|                                                                                                                             | -1.5 m                                              | kg |              |              |               |              | *11,020       | 7,370        | *8,200        | 4,930        |               |              | 6,900       | 4,160        | 6.86 m  |
|                                                                                                                             | -5 ft                                               | lb |              |              |               |              | *23,920       | 15,880       | *17,760       | 10,650       |               |              | 15,260      | 9,190        | 22.5 ft |
|                                                                                                                             | -3 m                                                | kg |              |              | *13,170       | *13,170      | *9,790        | 7,530        |               |              |               |              | *7,230      | 5,210        | 5.89 m  |
|                                                                                                                             | -10 ft                                              | lb |              |              | *28,600       | *28,600      | *21,140       | 16,240       |               |              |               |              | *15,960     | 11,620       | 19.2 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# Specifications

## LIFTING CAPACITY EC230F Electric L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

|                                                                                                                             | Lifting<br>hook<br>related<br>to<br>ground<br>level |    | 1.5 m / 5 ft |              | 3.0 m / 10 ft |              | 4.5 m / 15 ft |              | 6.0 m / 20 ft |              | 7.5 m / 25 ft |              | Max. reach  |              | Max.    |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|-------------|--------------|---------|
|                                                                                                                             |                                                     |    | Along<br>UC  | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC | Across<br>UC |         |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.5 m HD<br>8'2" HD<br>Shoe :<br>700 mm<br>28"<br>CWT :<br>2,600 kg<br>5,730 lb  | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *5,560      | *5,560       | 5.61 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *12,310     | *12,310      | 18.0 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              | *5,380        | *5,380       |               |              | *5,480      | 4,650        | 6.85 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              | *11,840       | *11,840      |               |              | *12,080     | 10,420       | 22.3 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              | *6,830        | *6,830       | *5,880        | 5,620        | *5,550        | 3,950        | *5,550      | 3,870        | 7.59 m  |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              | *14,750       | *14,750      | *12,800       | 12,130       |               |              | *12,230     | 8,600        | 24.8 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              |               |              | *8,800        | 8,100        | *6,740        | 5,360        | *5,840        | 3,850        | 5,680       | 3,500        | 7.98 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              |               |              | *18,930       | 17,500       | *14,610       | 11,570       | *12,770       | 8,300        | 12,550      | 7,730        | 26.2 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *10,530       | 7,580        | *7,610        | 5,110        | 6,130         | 3,740        | 5,500       | 3,360        | 8.07 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *22,720       | 16,370       | *16,500       | 11,020       | 13,210        | 8,060        | 12,120      | 7,410        | 26.5 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              |               |              | *11,310       | 7,350        | *8,190        | 4,940        | 6,040         | 3,660        | 5,640       | 3,420        | 7.88 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              |               |              | *24,500       | 15,850       | *17,760       | 10,670       | 13,030        | 7,900        | 12,430      | 7,560        | 25.8 ft |
|                                                                                                                             | -1.5 m                                              | kg |              |              | *10,740       | *10,740      | *11,240       | 7,320        | *8,280        | 4,890        |               |              | 6,190       | 3,740        | 7.37 m  |
|                                                                                                                             | -5 ft                                               | lb |              |              | *24,540       | *24,540      | *24,360       | 15,770       | 17,910        | 10,560       |               |              | 13,680      | 8,270        | 24.1 ft |
|                                                                                                                             | -3 m                                                | kg |              |              | *14,460       | 14,320       | *10,330       | 7,430        | *7,610        | 4,970        |               |              | *6,830      | 4,520        | 6.48 m  |
|                                                                                                                             | -10 ft                                              | lb |              |              | *31,360       | 30,710       | *22,350       | 16,020       | *16,350       | 10,750       |               |              | *15,080     | 10,040       | 21.1 ft |
|                                                                                                                             | -4.5 m                                              | kg |              |              | *11,160       | *11,160      | *7,960        | 7,740        |               |              |               |              | *6,960      | 6,720        | 4.98 m  |
|                                                                                                                             | -15 ft                                              | lb |              |              | *23,840       | *23,840      | *16,810       | 16,730       |               |              |               |              | *15,320     | 15,270       | 16.0 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.9 m HD<br>9'6" HD<br>Shoe :<br>700 mm<br>28"<br>CWT :<br>2,600 kg<br>5,730 lb  | 7.5 m                                               | kg |              |              |               |              |               |              | *5,070        | *5,070       |               |              | *4,900      | *4,900       | 6.16 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *10,900     | *10,900      | 19.8 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              | *4,960        | *4,960       |               |              | *4,560      | 4,230        | 7.3 m   |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              | *10,900       | *10,900      |               |              | *10,080     | 9,470        | 23.8 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              |               |              | *5,510        | *5,510       | *5,200        | 4,010        | *4,500      | 3,590        | 8.0 m   |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              |               |              | *12,010       | *12,010      | *11,440       | 8,610        | *9,920      | 7,960        | 26.2 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              |               |              | *8,220        | *8,220       | *6,410        | 5,420        | *5,590        | 3,890        | *4,620      | 3,260        | 8.37 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              |               |              | *17,700       | *17,700      | *13,910       | 11,710       | *12,200       | 8,370        | *10,170     | 7,210        | 27.4 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *10,090       | 7,670        | *7,350        | 5,140        | *6,060        | 3,750        | *4,940      | 3,140        | 8.46 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *21,770       | 16,550       | *15,940       | 11,110       | *13,190       | 8,090        | *10,860     | 6,930        | 27.8 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              | *5,360        | *5,360       | *11,130       | 7,350        | *8,040        | 4,950        | 6,040         | 3,650        | 5,250       | 3,190        | 8.27 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              | *12,420       | *12,420      | *24,080       | 15,850       | *17,440       | 10,680       | 13,020        | 7,880        | 11,570      | 7,040        | 27.1 ft |
|                                                                                                                             | -1.5 m                                              | kg | *6,200       | *6,200       | *10,250       | *10,250      | *11,290       | 7,270        | *8,280        | 4,870        | 6,000         | 3,620        | 5,700       | 3,450        | 7.79 m  |
|                                                                                                                             | -5 ft                                               | lb | *13,910      | *13,910      | *23,320       | *23,320      | *24,470       | 15,670       | 17,860        | 10,500       | 12,960        | 7,820        | 12,590      | 7,620        | 25.5 ft |
|                                                                                                                             | -3 m                                                | kg | *11,310      | *11,310      | *15,270       | 14,110       | *10,650       | 7,350        | *7,870        | 4,910        |               |              | *6,470      | 4,060        | 6.95 m  |
|                                                                                                                             | -10 ft                                              | lb | *25,420      | *25,420      | *33,100       | 30,260       | *23,040       | 15,840       | *16,980       | 10,610       |               |              | *14,280     | 9,030        | 22.7 ft |
|                                                                                                                             | -4.5 m                                              | kg |              |              | *12,420       | *12,420      | *8,820        | 7,600        |               |              |               |              | *6,710      | 5,630        | 5.59 m  |
|                                                                                                                             | -15 ft                                              | lb |              |              | *26,640       | *26,640      | *18,830       | 16,410       |               |              |               |              | *14,820     | 12,710       | 18.1 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>3.5 m GP<br>11'6" GP<br>Shoe :<br>700 mm<br>28"<br>CWT :<br>2,600 kg<br>5,730 lb | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *4,190      | *4,190       | 6.78 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *9,300      | *9,300       | 21.9 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              |               |              | *4,500        | 4,130        | *3,970      | 3,820        | 7.83 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              |               |              | *9,830        | 8,850        | *8,780      | 8,530        | 25.5 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              |               |              | *4,900        | *4,900       | *4,700        | 4,050        | *3,960      | 3,280        | 8.49 m  |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              |               |              | *10,690       | *10,690      | *10,330       | 8,720        | *8,720      | 7,280        | 27.8 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              | *11,100       | *11,100      | *7,280        | *7,280       | *5,860        | 5,500        | *5,170        | 3,910        | *4,090      | 3,000        | 8.84 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              | *23,600       | *23,600      | *15,690       | *15,690      | *12,710       | 11,870       | *11,290       | 8,430        | *9,000      | 6,630        | 29.0 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *9,350        | 7,820        | *6,900        | 5,190        | *5,730        | 3,760        | *4,380      | 2,880        | 8.92 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *20,180       | 16,890       | *14,970       | 11,210       | *12,470       | 8,100        | *9,640      | 6,360        | 29.3 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              | *6,980        | *6,980       | *10,750       | 7,410        | *7,750        | 4,960        | 6,020         | 3,630        | 4,810       | 2,910        | 8.74 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              | *16,000       | *16,000      | *23,260       | 15,980       | *16,810       | 10,700       | 12,970        | 7,830        | 10,610      | 6,430        | 28.7 ft |
|                                                                                                                             | -1.5 m                                              | kg | *6,140       | *6,140       | *10,240       | *10,240      | *11,270       | 7,250        | *8,190        | 4,830        | 5,940         | 3,560        | 5,160       | 3,110        | 8.29 m  |
|                                                                                                                             | -5 ft                                               | lb | *13,740      | *13,740      | *23,260       | *23,260      | *24,420       | 15,610       | *17,760       | 10,420       | 12,810        | 7,680        | 11,400      | 6,870        | 27.2 ft |
|                                                                                                                             | -3 m                                                | kg | *10,060      | *10,060      | *15,150       | 13,930       | *10,990       | 7,250        | *8,080        | 4,820        | 5,970         | 3,580        | 5,960       | 3,580        | 7.51 m  |
|                                                                                                                             | -10 ft                                              | lb | *22,580      | *22,580      | *34,460       | 29,880       | *23,790       | 15,640       | *17,470       | 10,410       |               |              | 13,230      | 7,940        | 24.5 ft |
|                                                                                                                             | -4.5 m                                              | kg | *15,090      | *15,090      | *14,010       | *14,010      | *9,720        | 7,420        | *7,010        | 4,950        |               |              | *6,550      | 4,670        | 6.27 m  |
|                                                                                                                             | -15 ft                                              | lb | *34,090      | *34,090      | *30,160       | *30,160      | *20,890       | 16,010       | *14,890       | 10,730       |               |              | *14,490     | 10,500       | 20.3 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# LIFTING CAPACITY EC230F Electric L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

|                                                                                                                            | Lifting hook related to ground level |    | 1.5 m / 5 ft |           | 3.0 m / 10 ft |           | 4.5 m / 15 ft |           | 6.0 m / 20 ft |           | 7.5 m / 25 ft |           | Max. reach |           | Max.    |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----|--------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|------------|-----------|---------|
|                                                                                                                            |                                      |    | Along UC     | Across UC | Along UC      | Across UC | Along UC      | Across UC | Along UC      | Across UC | Along UC      | Across UC | Along UC   | Across UC |         |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.0 m ME<br>6'7" ME<br>Shoe :<br>800 mm<br>32"<br>CWT :<br>2,600 kg<br>5,730 lb | 7.5 m                                | kg |              |           |               |           |               |           |               |           |               |           | *6,210     | *6,210    | 4.92 m  |
|                                                                                                                            | 25 ft                                | lb |              |           |               |           |               |           |               |           |               |           | *13,800    | *13,800   | 15.6 ft |
|                                                                                                                            | 6 m                                  | kg |              |           |               |           |               |           | *5,950        | 5,870     |               |           | *5,990     | 5,420     | 6.29 m  |
|                                                                                                                            | 20 ft                                | lb |              |           |               |           |               |           | *13,150       | 12,620    |               |           | *13,220    | 12,170    | 20.4 ft |
|                                                                                                                            | 4.5 m                                | kg |              |           |               |           | *7,550        | *7,550    | *6,330        | 5,720     |               |           | *6,030     | 4,400     | 7.1 m   |
|                                                                                                                            | 15 ft                                | lb |              |           |               |           | *16,270       | *16,270   | *13,790       | 12,340    |               |           | *13,280    | 9,780     | 23.2 ft |
|                                                                                                                            | 3 m                                  | kg |              |           |               |           | *9,500        | 8,200     | *7,120        | 5,470     | *6,180        | 3,950     | *6,170     | 3,940     | 7.51 m  |
|                                                                                                                            | 10 ft                                | lb |              |           |               |           | *20,410       | 17,720    | *15,440       | 11,810    |               |           | *13,600    | 8,710     | 24.6 ft |
|                                                                                                                            | 1.5 m                                | kg |              |           |               |           |               |           | *7,890        | 5,240     | 6,190         | 3,860     | 6,060      | 3,780     | 7.61 m  |
|                                                                                                                            | 5 ft                                 | lb |              |           |               |           |               |           | *17,100       | 11,320    |               |           | 13,360     | 8,340     | 25.0 ft |
|                                                                                                                            | 0 m                                  | kg |              |           |               |           | *11,400       | 7,610     | *8,320        | 5,110     |               |           | 6,250      | 3,880     | 7.4 m   |
|                                                                                                                            | 0 ft                                 | lb |              |           |               |           | *24,710       | 16,410    | *18,040       | 11,040    |               |           | 13,790     | 8,550     | 24.3 ft |
|                                                                                                                            | -1.5 m                               | kg |              |           |               |           | *11,020       | 7,640     | *8,200        | 5,100     |               |           | *6,970     | 4,300     | 6.86 m  |
|                                                                                                                            | -5 ft                                | lb |              |           |               |           | *23,920       | 16,460    | *17,760       | 11,030    |               |           | *15,390    | 9,510     | 22.5 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.5 m HD<br>8'2" HD<br>Shoe :<br>800 mm<br>32"<br>CWT :<br>2,600 kg<br>5,730 lb | -3 m                                 | kg |              |           | *13,170       | *13,170   | *9,790        | 7,800     |               |           |               |           | *7,230     | 5,390     | 5.89 m  |
|                                                                                                                            | -10 ft                               | lb |              |           | *28,600       | *28,600   | *21,140       | 16,830    |               |           |               |           | *15,960    | 12,020    | 19.2 ft |
|                                                                                                                            | 7.5 m                                | kg |              |           |               |           |               |           |               |           |               |           | *5,560     | *5,560    | 5.61 m  |
|                                                                                                                            | 25 ft                                | lb |              |           |               |           |               |           |               |           |               |           | *12,310    | *12,310   | 18.0 ft |
|                                                                                                                            | 6 m                                  | kg |              |           |               |           |               |           | *5,380        | *5,380    |               |           | *5,480     | 4,800     | 6.85 m  |
|                                                                                                                            | 20 ft                                | lb |              |           |               |           |               |           | *11,840       | *11,840   |               |           | *12,080    | 10,750    | 22.3 ft |
|                                                                                                                            | 4.5 m                                | kg |              |           |               |           | *6,830        | *6,830    | *5,880        | 5,800     | *5,550        | 4,080     | *5,550     | 4,000     | 7.59 m  |
|                                                                                                                            | 15 ft                                | lb |              |           |               |           | *14,750       | *14,750   | *12,800       | 12,510    |               |           | *12,230    | 8,880     | 24.8 ft |
|                                                                                                                            | 3 m                                  | kg |              |           |               |           | *8,800        | 8,380     | *6,740        | 5,530     | *5,840        | 3,980     | *5,710     | 3,610     | 7.98 m  |
|                                                                                                                            | 10 ft                                | lb |              |           |               |           | *18,930       | 18,100    | *14,610       | 11,950    | *12,770       | 8,580     | *12,580    | 7,990     | 26.2 ft |
|                                                                                                                            | 1.5 m                                | kg |              |           |               |           | *10,530       | 7,860     | *7,610        | 5,280     | 6,200         | 3,860     | 5,560      | 3,470     | 8.07 m  |
|                                                                                                                            | 5 ft                                 | lb |              |           |               |           | *22,720       | 16,960    | *16,500       | 11,400    | 13,360        | 8,340     | 12,260     | 7,670     | 26.5 ft |
|                                                                                                                            | 0 m                                  | kg |              |           |               |           | *11,310       | 7,620     | *8,190        | 5,120     | 6,110         | 3,780     | 5,700      | 3,540     | 7.88 m  |
|                                                                                                                            | 0 ft                                 | lb |              |           |               |           | *24,500       | 16,430    | *17,760       | 11,040    | 13,180        | 8,170     | 12,580     | 7,820     | 25.8 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.9 m HD<br>9'6" HD<br>Shoe :<br>800 mm<br>32"<br>CWT :<br>2,600 kg<br>5,730 lb | -1.5 m                               | kg |              |           | *10,740       | *10,740   | *11,240       | 7,590     | *8,280        | 5,060     |               |           | 6,260      | 3,870     | 7.37 m  |
|                                                                                                                            | -5 ft                                | lb |              |           | *24,540       | *24,540   | *24,360       | 16,360    | *17,950       | 10,940    |               |           | 13,840     | 8,550     | 24.1 ft |
|                                                                                                                            | -3 m                                 | kg |              |           | *14,460       | *14,460   | *10,330       | 7,700     | *7,610        | 5,150     |               |           | *6,830     | 4,670     | 6.48 m  |
|                                                                                                                            | -10 ft                               | lb |              |           | *31,360       | *31,360   | *22,350       | 16,600    | *16,350       | 11,130    |               |           | *15,080    | 10,390    | 21.1 ft |
|                                                                                                                            | -4.5 m                               | kg |              |           | *11,160       | *11,160   | *7,960        | *7,960    |               |           |               |           | *6,960     | 6,950     | 4.98 m  |
|                                                                                                                            | -15 ft                               | lb |              |           | *23,840       | *23,840   | *16,810       | *16,810   |               |           |               |           | *15,320    | *15,320   | 16.0 ft |
|                                                                                                                            | 7.5 m                                | kg |              |           |               |           |               |           | *5,070        | *5,070    |               |           | *4,900     | *4,900    | 6.16 m  |
|                                                                                                                            | 25 ft                                | lb |              |           |               |           |               |           |               |           |               |           | *10,900    | *10,900   | 19.8 ft |
|                                                                                                                            | 6 m                                  | kg |              |           |               |           |               |           | *4,960        | *4,960    |               |           | *4,560     | 4,370     | 7.3 m   |
|                                                                                                                            | 20 ft                                | lb |              |           |               |           |               |           | *10,900       | *10,900   |               |           | *10,080    | 9,760     | 23.8 ft |
|                                                                                                                            | 4.5 m                                | kg |              |           |               |           |               |           | *5,510        | *5,510    | *5,200        | 4,130     | *4,500     | 3,700     | 8.0 m   |
|                                                                                                                            | 15 ft                                | lb |              |           |               |           |               |           | *12,010       | *12,010   | *11,440       | 8,890     | *9,920     | 8,220     | 26.2 ft |
|                                                                                                                            | 3 m                                  | kg |              |           |               |           | *8,220        | *8,220    | *6,410        | 5,600     | *5,590        | 4,010     | *4,620     | 3,370     | 8.37 m  |
|                                                                                                                            | 10 ft                                | lb |              |           |               |           | *17,700       | *17,700   | *13,910       | 12,090    | *12,200       | 8,650     | *10,170    | 7,460     | 27.4 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.9 m HD<br>9'6" HD<br>Shoe :<br>800 mm<br>32"<br>CWT :<br>2,600 kg<br>5,730 lb | 1.5 m                                | kg |              |           |               |           | *10,090       | 7,940     | *7,350        | 5,320     | *6,060        | 3,880     | *4,940     | 3,250     | 8.46 m  |
|                                                                                                                            | 5 ft                                 | lb |              |           |               |           | *21,770       | 17,140    | *15,940       | 11,480    | *13,190       | 8,370     | *10,860    | 7,170     | 27.8 ft |
|                                                                                                                            | 0 m                                  | kg |              |           | *5,360        | *5,360    | *11,130       | 7,620     | *8,040        | 5,120     | 6,110         | 3,780     | 5,310      | 3,300     | 8.27 m  |
|                                                                                                                            | 0 ft                                 | lb |              |           | *12,420       | *12,420   | *24,080       | 16,440    | *17,440       | 11,050    | 13,170        | 8,150     | 11,710     | 7,280     | 27.1 ft |
|                                                                                                                            | -1.5 m                               | kg | *6,200       | *6,200    | *10,250       | *10,250   | *11,290       | 7,540     | *8,280        | 5,040     | 6,070         | 3,740     | 5,770      | 3,570     | 7.79 m  |
|                                                                                                                            | -5 ft                                | lb | *13,910      | *13,910   | *23,320       | *23,320   | *24,470       | 16,250    | *17,950       | 10,880    | 13,110        | 8,100     | 12,740     | 7,890     | 25.5 ft |
|                                                                                                                            | -3 m                                 | kg | *11,310      | *11,310   | *15,270       | 14,710    | *10,650       | 7,620     | *7,870        | 5,080     |               |           | *6,470     | 4,200     | 6.95 m  |
|                                                                                                                            | -10 ft                               | lb | *25,420      | *25,420   | *33,100       | 31,540    | *23,040       | 16,420    | *16,980       | 10,980    |               |           | *14,280    | 9,340     | 22.7 ft |
|                                                                                                                            | -4.5 m                               | kg |              |           | *12,420       | *12,420   | *8,820        | 7,870     |               |           |               |           | *6,710     | 5,830     | 5.59 m  |
|                                                                                                                            | -15 ft                               | lb |              |           | *26,640       | *26,640   | *18,830       | 17,000    |               |           |               |           | *14,820    | 13,150    | 18.1 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# Specifications

## LIFTING CAPACITY EC230F Electric L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

|                                                                                                                             | Lifting<br>hook<br>related<br>to<br>ground<br>level |    | 1.5 m / 5 ft |              | 3.0 m / 10 ft |              | 4.5 m / 15 ft |              | 6.0 m / 20 ft |              | 7.5 m / 25 ft |              | Max. reach  |              | Max.    |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|-------------|--------------|---------|
|                                                                                                                             |                                                     |    | Along<br>UC  | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC | Across<br>UC |         |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>3.5 m GP<br>11'6" GP<br>Shoe :<br>800 mm<br>32"<br>CWT :<br>2,600 kg<br>5,730 lb | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *4,190      | *4,190       | 6.78 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *9,300      | *9,300       | 21.9 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              |               |              | *4,500        | 4,260        | *3,970      | 3,940        | 7.83 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              |               |              | *9,830        | 9,130        | *8,780      | *8,780       | 25.5 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              |               |              | *4,900        | *4,900       | *4,700        | 4,180        | *3,960      | 3,390        | 8.49 m  |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              |               |              | *10,690       | *10,690      | *10,330       | 9,000        | *8,720      | 7,520        | 27.8 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              | *11,100       | *11,100      | *7,280        | *7,280       | *5,860        | 5,680        | *5,170        | 4,040        | *4,090      | 3,100        | 8.84 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              | *23,600       | *23,600      | *15,690       | *15,690      | *12,710       | 12,250       | *11,290       | 8,710        | *9,000      | 6,860        | 29.0 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *9,350        | 8,100        | *6,900        | 5,370        | *5,730        | 3,880        | *4,380      | 2,980        | 8.92 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *20,180       | 17,480       | *14,970       | 11,590       | *12,470       | 8,380        | *9,640      | 6,590        | 29.3 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              | *6,980        | *6,980       | *10,750       | 7,690        | *7,750        | 5,130        | 6,090         | 3,760        | 4,870       | 3,020        | 8.74 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              | *16,000       | *16,000      | *23,260       | 16,570       | *16,810       | 11,070       | 13,120        | 8,100        | 10,740      | 6,660        | 28.7 ft |
|                                                                                                                             | -1.5 m                                              | kg | *6,140       | *6,140       | *10,240       | *10,240      | *11,270       | 7,520        | *8,190        | 5,010        | 6,010         | 3,690        | 5,220       | 3,220        | 8.29 m  |
|                                                                                                                             | -5 ft                                               | lb | *13,740      | *13,740      | *23,260       | *23,260      | *24,420       | 16,200       | *17,760       | 10,800       | 12,960        | 7,960        | 11,540      | 7,120        | 27.2 ft |
|                                                                                                                             | -3 m                                                | kg | *10,060      | *10,060      | *15,150       | 14,530       | *10,990       | 7,530        | *8,080        | 4,990        | 6,040         | 3,710        | 6,030       | 3,710        | 7.51 m  |
|                                                                                                                             | -10 ft                                              | lb | *22,580      | *22,580      | *34,460       | 31,150       | *23,790       | 16,220       | *17,470       | 10,780       |               |              | 13,390      | 8,230        | 24.5 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.0 m ME<br>6'7" ME<br>Shoe :<br>900 mm<br>36"<br>CWT :<br>2,600 kg<br>5,730 lb  | -4.5 m                                              | kg | *15,090      | *15,090      | *14,010       | *14,010      | *9,720        | 7,690        | *7,010        | 5,130        |               |              | *6,550      | 4,840        | 6.27 m  |
|                                                                                                                             | -15 ft                                              | lb | *34,090      | *34,090      | *30,160       | *30,160      | *20,890       | 16,600       | *14,890       | 11,100       |               |              | *14,490     | 10,870       | 20.3 ft |
|                                                                                                                             | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *6,210      | *6,210       | 4.92 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *13,800     | *13,800      | 15.6 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              | *5,950        | *5,950       |               |              | *5,990      | 5,590        | 6.29 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              | *13,150       | 13,010       |               |              | *13,220     | 12,550       | 20.4 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              | *7,550        | *7,550       | *6,330        | 5,900        |               |              | *6,030      | 4,540        | 7.1 m   |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              | *16,270       | *16,270      | *13,790       | 12,730       |               |              | *13,280     | 10,090       | 23.2 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              |               |              | *9,500        | 8,480        | *7,120        | 5,650        | *6,180        | 4,080        | *6,170      | 4,070        | 7.51 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              |               |              | *20,410       | 18,330       | *15,440       | 12,200       |               |              | *13,600     | 8,990        | 24.6 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              |               |              | *7,890        | 5,420        | 6,260         | 3,990        | 6,130       | 3,910        | 7.61 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              |               |              | *17,100       | 11,700       |               |              | 13,520      | 8,620        | 25.0 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              |               |              | *11,400       | 7,890        | *8,320        | 5,290        |               |              | 6,320       | 4,010        | 7.4 m   |
|                                                                                                                             | 0 ft                                                | lb |              |              |               |              | *24,710       | 17,000       | *18,040       | 11,420       |               |              | 13,950      | 8,840        | 24.3 ft |
|                                                                                                                             | -1.5 m                                              | kg |              |              |               |              | *11,020       | 7,920        | *8,200        | 5,280        |               |              | *6,970      | 4,450        | 6.86 m  |
|                                                                                                                             | -5 ft                                               | lb |              |              |               |              | *23,920       | 17,060       | *17,760       | 11,410       |               |              | *15,390     | 9,830        | 22.5 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.5 m HD<br>8'2" HD<br>Shoe :<br>900 mm<br>36"<br>CWT :<br>2,600 kg<br>5,730 lb  | -3 m                                                | kg |              |              | *13,170       | *13,170      | *9,790        | 8,080        |               |              |               |              | *7,230      | 5,570        | 5.89 m  |
|                                                                                                                             | -10 ft                                              | lb |              |              | *28,600       | *28,600      | *21,140       | 17,430       |               |              |               |              | *15,960     | 12,420       | 19.2 ft |
|                                                                                                                             | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *5,560      | *5,560       | 5.61 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *12,310     | *12,310      | 18.0 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              | *5,380        | *5,380       |               |              | *5,480      | 4,950        | 6.85 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              | *11,840       | *11,840      |               |              | *12,080     | 11,080       | 22.3 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              | *6,830        | *6,830       | *5,880        | *5,880       | *5,550        | 4,210        | *5,550      | 4,130        | 7.59 m  |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              | *14,750       | *14,750      | *12,800       | *12,800      |               |              | *12,230     | 9,160        | 24.8 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              |               |              | *8,800        | 8,660        | *6,740        | 5,710        | *5,840        | 4,110        | *5,710      | 3,730        | 7.98 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              |               |              | *18,930       | 18,710       | *14,610       | 12,330       | *12,770       | 8,860        | *12,580     | 8,250        | 26.2 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *10,530       | 8,130        | *7,610        | 5,460        | *6,250        | 3,990        | 5,620       | 3,590        | 8.07 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *22,720       | 17,560       | *16,500       | 11,780       | 13,510        | 8,610        | 12,410      | 7,920        | 26.5 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              |               |              | *11,310       | 7,900        | *8,190        | 5,290        | 6,180         | 3,910        | 5,770       | 3,660        | 7.88 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              |               |              | *24,500       | 17,030       | *17,760       | 11,420       | 13,330        | 8,450        | 12,730      | 8,080        | 25.8 ft |
|                                                                                                                             | -1.5 m                                              | kg |              |              | *10,740       | *10,740      | *11,240       | 7,870        | *8,280        | 5,240        |               |              | 6,330       | 4,000        | 7.37 m  |
|                                                                                                                             | -5 ft                                               | lb |              |              | *24,540       | *24,540      | *24,360       | 16,950       | *17,950       | 11,310       |               |              | 14,000      | 8,850        | 24.1 ft |
|                                                                                                                             | -3 m                                                | kg |              |              | *14,460       | *14,460      | *10,330       | 7,980        | *7,610        | 5,320        |               |              | *6,830      | 4,830        | 6.48 m  |
|                                                                                                                             | -10 ft                                              | lb |              |              | *31,360       | *31,360      | *22,350       | 17,200       | *16,350       | 11,510       |               |              | *15,080     | 10,740       | 21.1 ft |
|                                                                                                                             | -4.5 m                                              | kg |              |              | *11,160       | *11,160      | *7,960        | *7,960       |               |              |               |              | *6,960      | *6,960       | 4.98 m  |
|                                                                                                                             | -15 ft                                              | lb |              |              | *23,840       | *23,840      | *16,810       | *16,810      |               |              |               |              | *15,320     | *15,320      | 16.0 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# LIFTING CAPACITY EC230F Electric L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

|                                                                                                                             | Lifting<br>hook<br>related<br>to<br>ground<br>level |    | 1.5 m / 5 ft |              | 3.0 m / 10 ft |              | 4.5 m / 15 ft |              | 6.0 m / 20 ft |              | 7.5 m / 25 ft |              | Max. reach  |              | Max.    |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|-------------|--------------|---------|
|                                                                                                                             |                                                     |    | Along<br>UC  | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC   | Across<br>UC | Along<br>UC | Across<br>UC |         |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>2.9 m HD<br>9'6" HD<br>Shoe :<br>900 mm<br>36"<br>CWT :<br>2,600 kg<br>5,730 lb  | 7.5 m                                               | kg |              |              |               |              |               |              | *5,070        | *5,070       |               |              | *4,900      | *4,900       | 6.16 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *10,900     | *10,900      | 19.8 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              | *4,960        | *4,960       |               |              | *4,560      | 4,500        | 7.3 m   |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              | *10,900       | *10,900      |               |              | *10,080     | 10,070       | 23.8 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              |               |              | *5,510        | *5,510       | *5,200        | 4,260        | *4,500      | 3,820        | 8.0 m   |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              |               |              | *12,010       | *12,010      | *11,440       | 9,170        | *9,920      | 8,480        | 26.2 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              |               |              | *8,220        | *8,220       | *6,410        | 5,780        | *5,590        | 4,140        | *4,620      | 3,480        | 8.37 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              |               |              | *17,700       | *17,700      | *13,910       | 12,480       | *12,200       | 8,930        | *10,170     | 7,700        | 27.4 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *10,090       | 8,220        | *7,350        | 5,500        | *6,060        | 4,010        | *4,940      | 3,360        | 8.46 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *21,770       | 17,740       | *15,940       | 11,870       | *13,190       | 8,640        | *10,860     | 7,410        | 27.8 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              | *5,360        | *5,360       | *11,130       | 7,900        | *8,040        | 5,300        | 6,180         | 3,900        | 5,370       | 3,410        | 8.27 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              | *12,420       | *12,420      | *24,080       | 17,030       | *17,440       | 11,440       | 13,320        | 8,430        | 11,850      | 7,530        | 27.1 ft |
|                                                                                                                             | -1.5 m                                              | kg | *6,200       | *6,200       | *10,250       | *10,250      | *11,290       | 7,820        | *8,280        | 5,220        | 6,140         | 3,870        | 5,830       | 3,690        | 7.79 m  |
|                                                                                                                             | -5 ft                                               | lb | *13,910      | *13,910      | *23,320       | *23,320      | *24,470       | 16,840       | *17,950       | 11,260       | 13,260        | 8,370        | 12,890      | 8,160        | 25.5 ft |
|                                                                                                                             | -3 m                                                | kg | *11,310      | *11,310      | *15,270       | *15,270      | *10,650       | 7,900        | *7,870        | 5,260        |               |              | *6,470      | 4,350        | 6.95 m  |
|                                                                                                                             | -10 ft                                              | lb | *25,420      | *25,420      | *33,100       | 32,850       | *23,040       | 17,020       | *16,980       | 11,360       |               |              | *14,280     | 9,660        | 22.7 ft |
|                                                                                                                             | -4.5 m                                              | kg |              |              | *12,420       | *12,420      | *8,820        | 8,150        |               |              |               |              | *6,710      | 6,020        | 5.59 m  |
|                                                                                                                             | -15 ft                                              | lb |              |              | *26,640       | *26,640      | *18,830       | 17,600       |               |              |               |              | *14,820     | 13,600       | 18.1 ft |
| Boom :<br>5.7 m GP<br>18'8" GP<br>Arm :<br>3.5 m GP<br>11'6" GP<br>Shoe :<br>900 mm<br>36"<br>CWT :<br>2,600 kg<br>5,730 lb | 7.5 m                                               | kg |              |              |               |              |               |              |               |              |               |              | *4,190      | *4,190       | 6.78 m  |
|                                                                                                                             | 25 ft                                               | lb |              |              |               |              |               |              |               |              |               |              | *9,300      | *9,300       | 21.9 ft |
|                                                                                                                             | 6 m                                                 | kg |              |              |               |              |               |              |               |              | *4,500        | 4,390        | *3,970      | *3,970       | 7.83 m  |
|                                                                                                                             | 20 ft                                               | lb |              |              |               |              |               |              |               |              | *9,830        | 9,410        | *8,780      | *8,780       | 25.5 ft |
|                                                                                                                             | 4.5 m                                               | kg |              |              |               |              |               |              | *4,900        | *4,900       | *4,700        | 4,310        | *3,960      | 3,500        | 8.49 m  |
|                                                                                                                             | 15 ft                                               | lb |              |              |               |              |               |              | *10,690       | *10,690      | *10,330       | 9,280        | *8,720      | 7,760        | 27.8 ft |
|                                                                                                                             | 3 m                                                 | kg |              |              | *11,100       | *11,100      | *7,280        | *7,280       | *5,860        | *5,860       | *5,170        | 4,170        | *4,090      | 3,210        | 8.84 m  |
|                                                                                                                             | 10 ft                                               | lb |              |              | *23,600       | *23,600      | *15,690       | *15,690      | *12,710       | 12,640       | *11,290       | 8,990        | *9,000      | 7,090        | 29.0 ft |
|                                                                                                                             | 1.5 m                                               | kg |              |              |               |              | *9,350        | 8,380        | *6,900        | 5,550        | *5,730        | 4,010        | *4,380      | 3,090        | 8.92 m  |
|                                                                                                                             | 5 ft                                                | lb |              |              |               |              | *20,180       | 18,090       | *14,970       | 11,970       | *12,470       | 8,650        | *9,640      | 6,810        | 29.3 ft |
|                                                                                                                             | 0 m                                                 | kg |              |              | *6,980        | *6,980       | *10,750       | 7,960        | *7,750        | 5,310        | 6,160         | 3,880        | *4,890      | 3,120        | 8.74 m  |
|                                                                                                                             | 0 ft                                                | lb |              |              | *16,000       | *16,000      | *23,260       | 17,170       | *16,810       | 11,460       | 13,270        | 8,380        | *10,780     | 6,890        | 28.7 ft |
|                                                                                                                             | -1.5 m                                              | kg | *6,140       | *6,140       | *10,240       | *10,240      | *11,270       | 7,790        | *8,190        | 5,180        | 6,080         | 3,810        | 5,280       | 3,330        | 8.29 m  |
|                                                                                                                             | -5 ft                                               | lb | *13,740      | *13,740      | *23,260       | *23,260      | *24,420       | 16,790       | *17,760       | 11,180       | 13,120        | 8,230        | 11,670      | 7,370        | 27.2 ft |
|                                                                                                                             | -3 m                                                | kg | *10,060      | *10,060      | *15,150       | 15,140       | *10,990       | 7,800        | *8,080        | 5,170        | 6,110         | 3,840        | 6,100       | 3,830        | 7.51 m  |
|                                                                                                                             | -10 ft                                              | lb | *22,580      | *22,580      | *34,460       | 32,460       | *23,790       | 16,810       | *17,470       | 11,160       |               |              | *13,520     | 8,510        | 24.5 ft |
|                                                                                                                             | -4.5 m                                              | kg | *15,090      | *15,090      | *14,010       | *14,010      | *9,720        | 7,970        | *7,010        | 5,300        |               |              | *6,550      | 5,000        | 6.27 m  |
|                                                                                                                             | -15 ft                                              | lb | *34,090      | *34,090      | *30,160       | *30,160      | *20,890       | 17,200       | *14,890       | 11,480       |               |              | *14,490     | 11,240       | 20.3 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# Equipment

## STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

### Electric / Electronic control system

|                                                    |   |
|----------------------------------------------------|---|
| Anti-theft with code lock system                   | • |
| Automatic idling system                            | • |
| Lock Out / Tag Out function on battery main switch | • |
| Standard light                                     | o |
| Basic light package                                | o |
| Advanced light package                             | o |
| Deluxe light package                               | o |
| Arm light                                          | o |
| LH light                                           | o |

### Electric powertrain

|                             |   |
|-----------------------------|---|
| Standard fan drive          | • |
| Reversible fan drive        | o |
| New work mode with 10 steps | • |
| Automatic machine shutdown  | o |

### Undercarriage / Superstructure

|                                                                   |   |
|-------------------------------------------------------------------|---|
| 3-point side access                                               | • |
| Openable 1 piece hood                                             | • |
| Platform handrail fixed & Guardrail, foldable                     | • |
| SIPS (Side Impact Protection Steel)                               | o |
| HD S/door & hood, Demo                                            | o |
| Lowr frame L, N, NL                                               | o |
| Link 500/600/700/800/900 mm (20/24/28/32/36") triple grouser shoe | o |
| Link 600 mm (24") triple grouser shoe, HD                         | o |
| Link 600 mm (24") single grouser shoe                             | o |
| Link 600 mm (24") add rubber pad shoe                             | o |
| Link 700 mm (28") double grouser shoe                             | o |
| Full track guard                                                  | o |
| Counterweight 2,600 kg (5,730 lb)                                 | • |

## STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

### Hydraulic System

|                                                                             |   |
|-----------------------------------------------------------------------------|---|
| EH-positive (Electro-Hydraulic) control system                              | • |
| Boom up & swing priority                                                    | • |
| Auto warm up                                                                | • |
| Auto power boost                                                            | • |
| One touch power boost                                                       | • |
| Priority Adjustment                                                         | • |
| Boom down speed control                                                     | • |
| Shock reduction function                                                    | • |
| Joystick, Semi-long / 4 switch / 4 switch & 1 proportional / Simple L8 / L8 | o |
| Hydraulic oil mineral, 32 / 46 / 68                                         | o |
| Longlife hyd oil mineral, 32 / 46 / 68                                      | o |
| Hydraulic oil bio 46                                                        | o |
| Pattern change                                                              | • |
| Boom float function                                                         | • |
| Straight travel pedal                                                       | • |
| Comfort driving control                                                     | o |
| Creep mode                                                                  | • |
| Variable X3 P-Q control                                                     | o |
| Hose rupture valve for boom                                                 | o |
| Hose rupture valve for arm                                                  | o |

### Digging equipment

|                                                                                      |   |
|--------------------------------------------------------------------------------------|---|
| GP 5.7 m (18'8") boom                                                                | • |
| HD 5.7 m (18'8") boom/ VA 5.57 m (18'3") boom                                        | o |
| GP 2.9 m (9'6") arm                                                                  | • |
| HD 2.9 m (9'6") arm/ ME 2.0 m (6'7"), arm/ HD 2.5 m (8'2") arm/ GP 3.5 m (11'6") arm | o |

### Machine controls

|                                                     |   |
|-----------------------------------------------------|---|
| Kinematic sensor package                            | • |
| Volvo Co-Pilot 2nd display, 12.8" touchable Full HD | • |
| Dig Assist, Start                                   | • |
| Dig Assist, 2D                                      | o |
| Dig Assist, In-Field Design                         | o |
| Dig Assist, Topcon 3D-MC                            | o |
| Dig Assist, Trimble Earthworks                      | o |
| Dig Assist, Infield-Design Advanced                 | o |
| Dig Assist, On-Board Weighing                       | o |
| Dig Assist, Laser Receiver                          | • |
| Volvo Active Control                                | o |
| Dig Assist, Boundary Limit                          | • |

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**STANDARD AND OPTIONAL EQUIPMENT**

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• = Standard / o = Optional

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**Safety**

|                                           |   |
|-------------------------------------------|---|
| Travel alarm, white noise                 | • |
| Flashing beacon, LED                      | • |
| Green light beacon                        | o |
| Rear view camera                          | o |
| Side view camera                          | o |
| HD VSV (Volvo Smart View)                 | • |
| HD VSV with obstacle detection            | o |
| Provision, HD VSV with obstacle detection | • |

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**Cab, interior**

|                                                              |   |
|--------------------------------------------------------------|---|
| Keyless machine start and stop                               | • |
| 8" HD display                                                | • |
| ROPS certified cab                                           | • |
| Tiltable left console                                        | • |
| Digital hour meter                                           | • |
| Wireless mobile charger with Kinematic sensor package option | • |
| Various storage space with cool/heated                       | • |
| Cleaning air gun                                             | o |
| 1 piece wind shield cab                                      | o |
| High visibility cab                                          | o |
| Cabin large mirror                                           | • |
| Cabin large mirror, Heated                                   | o |
| Basic / Premium / Deluxe seat                                | o |
| Seat belt, 2 inch 2 point / 3 inch 2 point / 3 inch 3 point  | o |
| Climate control-HEPA filter                                  | o |
| Radio with MP3/USB/Bluetooth                                 | o |
| Front rain shield                                            | o |
| Sun screen                                                   | • |
| Lower wiper                                                  | o |
| Sun shield, roof hatch                                       | o |
| Foot rest, High mount                                        | • |
| FOG (Falling Object Guard)                                   | o |
| FOPS (Falling Object Protection Structure)                   | o |
| Safety net                                                   | o |

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**Service and Maintenance**

|                                     |   |
|-------------------------------------|---|
| Quick Hydraulic Oil Fill connection | • |
| Auto lubrication system             | o |
| Tool kit                            | o |

**V O L V O**