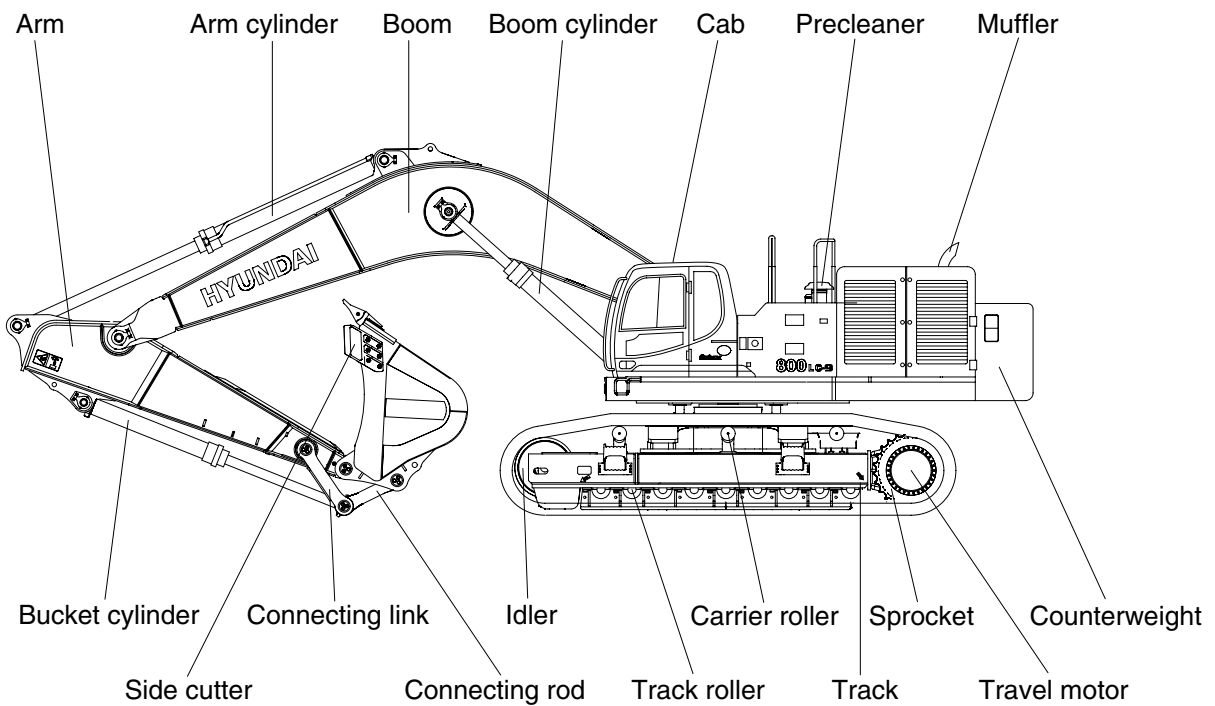
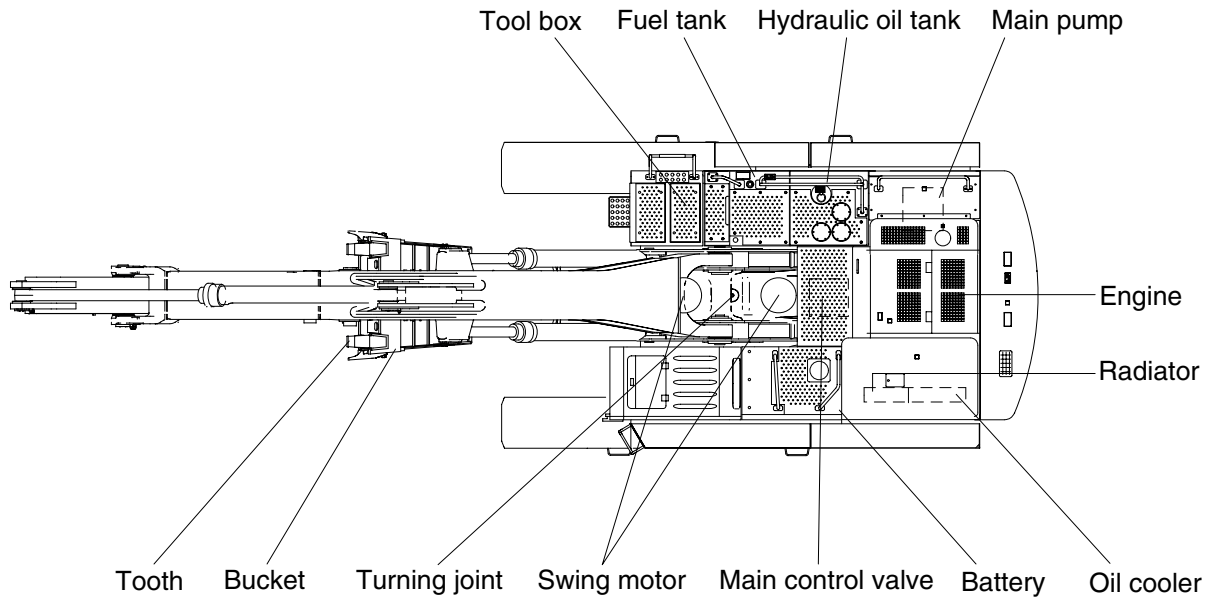


# GROUP 2 SPECIFICATIONS

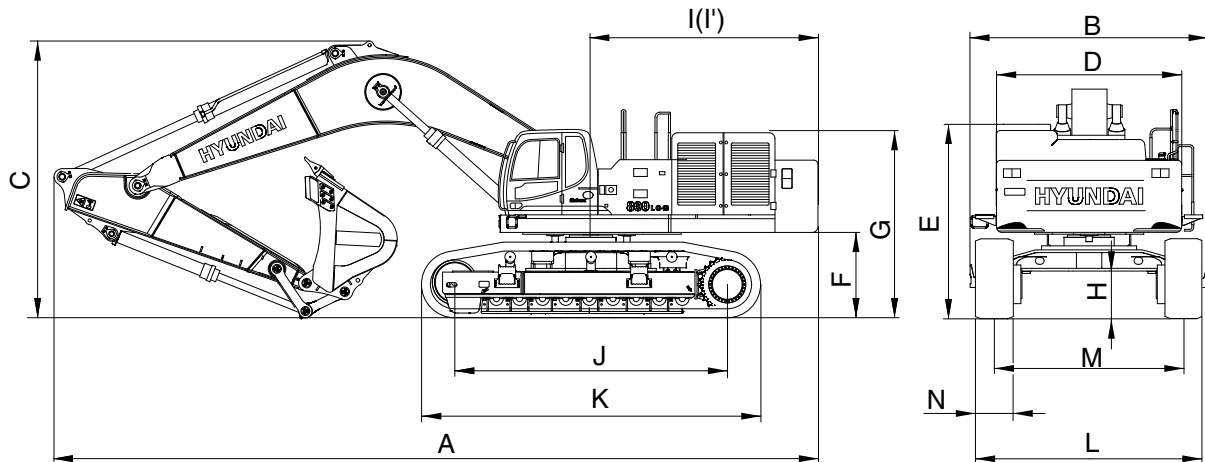
## 1. MAJOR COMPONENT



80092SP01

## 2. SPECIFICATIONS

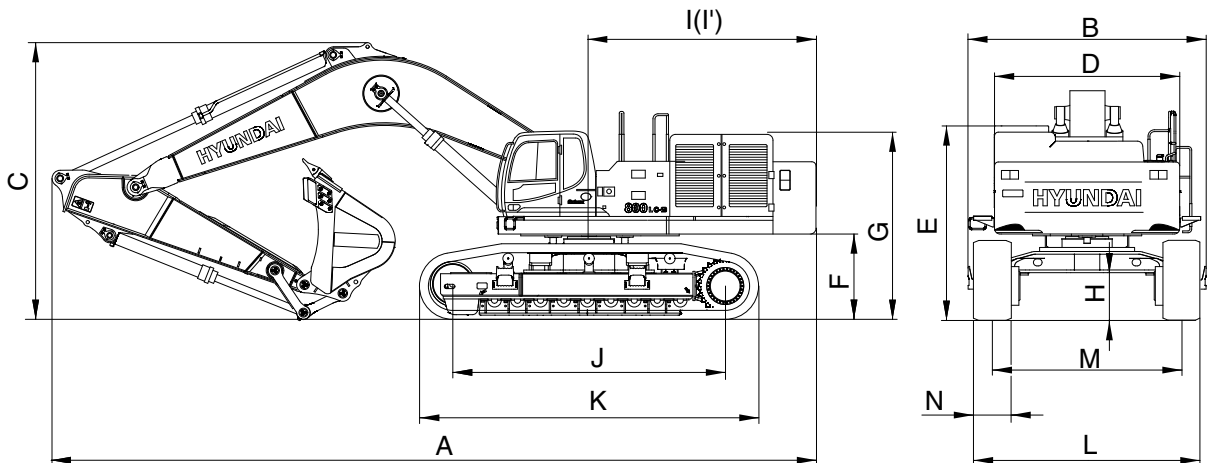
- 7.20 m (23' 7") BOOM, 2.95 m (9' 8") ARM



80092SP02

| Description   |    | Unit                              | Specification             |
|---|----|-----------------------------------|---------------------------|
| Operating weight  |    | kg (lb)                           | 83120 (183250)            |
| Bucket capacity(SAE heaped), standard                                   |    | m <sup>3</sup> (yd <sup>3</sup> ) | 4.53 (5.93)               |
| Overall length  | A  | mm (ft-in)                        | 13100 (43' 0")            |
| Overall width, with 700mm shoe<br>(Transport position/Working position) | B  |                                   | 3675/4395 (12' 1 1/4' 5") |
| Overall height  | C  |                                   | 5040 (16' 6")             |
| Superstructure width  | D  |                                   | 3420 (11' 3")             |
| Overall height of cab   | E  |                                   | 3830 (12' 7")             |
| Ground clearance of counterweight                                       | F  |                                   | 1570 ( 5' 2")             |
| Engine cover height   | G  |                                   | 3480 (11' 5")             |
| Minimum ground clearance  | H  |                                   | 928 ( 3' 1")              |
| Rear-end distance   | I  |                                   | 4200 (13' 9")             |
| Rear-end swing radius   | I' |                                   | 4315 (14' 2")             |
| Distance between tumblers   | J  |                                   | 5030 (16' 6")             |
| Undercarriage length  | K  |                                   | 6335 (20' 9")             |
| Undercarriage width<br>(Transport position/Working position)            | L  |                                   | 3480/4200 (11' 5"/13' 9") |
| Track gauge<br>(Transport position/Working position)                    | M  |                                   | 2780/3500 (9' 1"/11' 6")  |
| Track shoe width, standard  | N  |                                   | 700 (28")                 |
| Travel speed(Low/high)  |    | km/hr (mph)                       | 2.6/4.0 (1.6/2.5)         |
| Swing speed   |    | rpm                               | 6.5                       |
| Gradeability  |    | Degree (%)                        | 35 (70)                   |
| Ground pressure(700 mm shoe)  |    | kgf/cm <sup>2</sup> (psi)         | 1.08 (15.36)              |
| Max traction force  |    | kg (lb)                           | 59300 (130730)            |

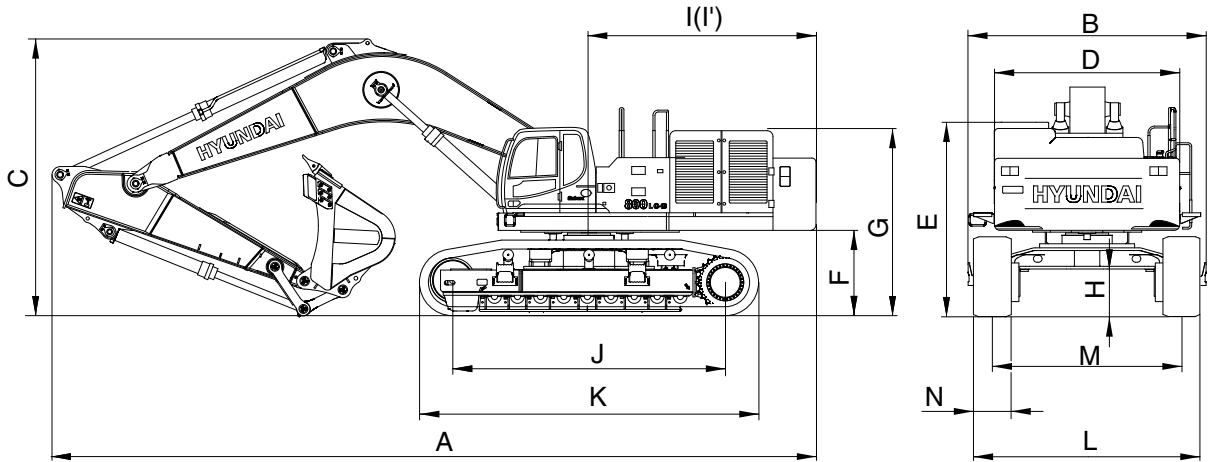
· 8.05 m (26' 5") BOOM, 3.40 m (11' 2") ARM



80092SP02

| Description  |    | Unit                              | Specification             |
|--|----|-----------------------------------|---------------------------|
| Operating weight   |    | kg (lb)                           | 83600 (184300)            |
| Bucket capacity (SAE heaped), standard                                   |    | m <sup>3</sup> (yd <sup>3</sup> ) | 3.40 (4.45)               |
| Overall length   | A  | mm (ft-in)                        | 13950 (45' 9")            |
| Overall width, with 700 mm shoe<br>(Transport position/Working position) | B  |                                   | 3675/4395 (12' 1"/14' 5") |
| Overall height   | C  |                                   | 5360 (17' 7")             |
| Superstructure width   | D  |                                   | 3420 (11' 3")             |
| Overall height of cab  | E  |                                   | 3580 (11' 9")             |
| Ground clearance of counterweight  | F  |                                   | 1570 ( 5' 2")             |
| Engine cover height  | G  |                                   | 3480 (11' 5")             |
| Minimum ground clearance   | H  |                                   | 928 ( 3' 1")              |
| Rear-end distance  | I  |                                   | 4200 (13' 9")             |
| Rear-end swing radius  | I' |                                   | 4315 (14' 2")             |
| Distance between tumbler   | J  |                                   | 5030 (16' 6")             |
| Undercarriage length   | K  |                                   | 6335 (20' 9")             |
| Undercarriage width<br>(Transport position/Working position)             | L  |                                   | 3480/4200 (11' 5"/13' 9") |
| Track gauge<br>(Transport position/Working position)                     | M  |                                   | 2780/3500 (9' 1"/11' 6")  |
| Track shoe width, standard   | N  | 700 (28")                         |                           |
| Travel speed (Low/high)  |    | km/hr (mph)                       | 2.6/4.0 (1.6/2.5)         |
| Swing speed  |    | rpm                               | 6.3                       |
| Gradeability   |    | Degree (%)                        | 35 (70)                   |
| Ground pressure (700 mm shoe)  |    | kgf/cm <sup>2</sup> (psi)         | 1.09 (15.50)              |
| Max traction force   |    | kg (lb)                           | 59300 (130730)            |

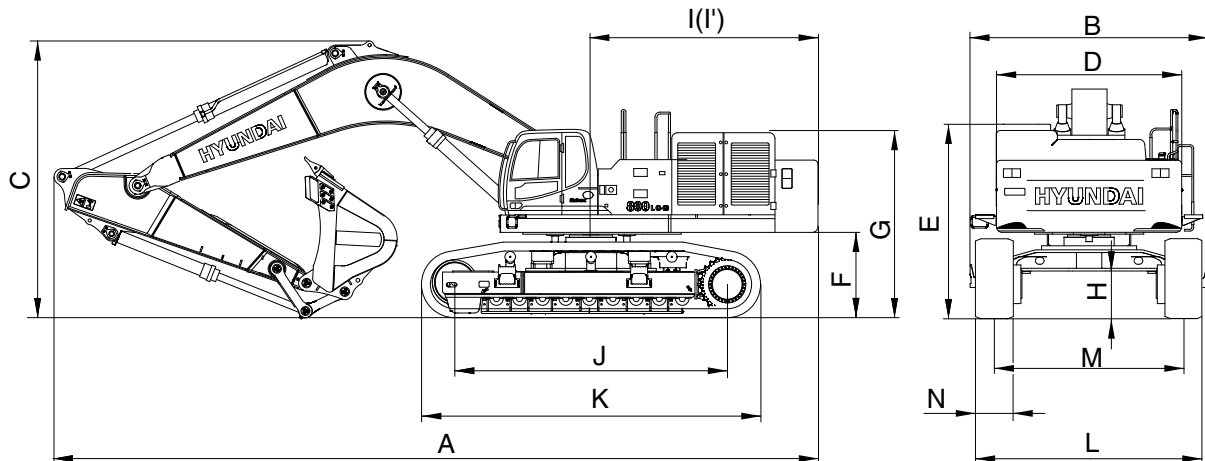
· 8.20 m (26' 11") BOOM, 3.60 m (11' 10") ARM



80092SP02

| Description  |    | Unit                              | Specification             |
|--|----|-----------------------------------|---------------------------|
| Operating weight   |    | kg (lb)                           | 84300 (185850)            |
| Bucket capacity (SAE heaped), standard                                   |    | m <sup>3</sup> (yd <sup>3</sup> ) | 3.40 (4.45)               |
| Overall length   | A  | mm (ft-in)                        | 14110 (46' 4")            |
| Overall width, with 700 mm shoe<br>(Transport position/Working position) | B  |                                   | 3675/4395 (12' 1"/14' 5") |
| Overall height   | C  |                                   | 5390 (17' 8")             |
| Superstructure width   | D  |                                   | 3420 (11' 3")             |
| Overall height of cab  | E  |                                   | 3580 (11' 9")             |
| Ground clearance of counterweight  | F  |                                   | 1570 ( 5' 2")             |
| Engine cover height  | G  |                                   | 3480 (11' 5")             |
| Minimum ground clearance   | H  |                                   | 928 ( 3' 1")              |
| Rear-end distance  | I  |                                   | 4200 (13' 9")             |
| Rear-end swing radius  | I' |                                   | 4315 (14' 2")             |
| Distance between tumblers  | J  |                                   | 5030 (16' 6")             |
| Undercarriage length   | K  |                                   | 6335 (20' 9")             |
| Undercarriage width<br>(Transport position/Working position)             | L  |                                   | 3480/4200 (11' 5"/13' 9") |
| Track gauge<br>(Transport position/Working position)                     | M  |                                   | 2780/3500 (9' 1"/11' 6")  |
| Track shoe width, standard   | N  | 700 (28")                         |                           |
| Travel speed (Low/high)  |    | km/hr (mph)                       | 2.6/4.0 (1.6/2.5)         |
| Swing speed  |    | rpm                               | 6.3                       |
| Gradeability   |    | Degree (%)                        | 35 (70)                   |
| Ground pressure(700 mm shoe)   |    | kgf/cm <sup>2</sup> (psi)         | 1.10 (15.64)              |
| Max traction force   |    | kg (lb)                           | 59300 (130730)            |

· 10.5 m (34' 5") BOOM, 6.50 m (21' 4") ARM

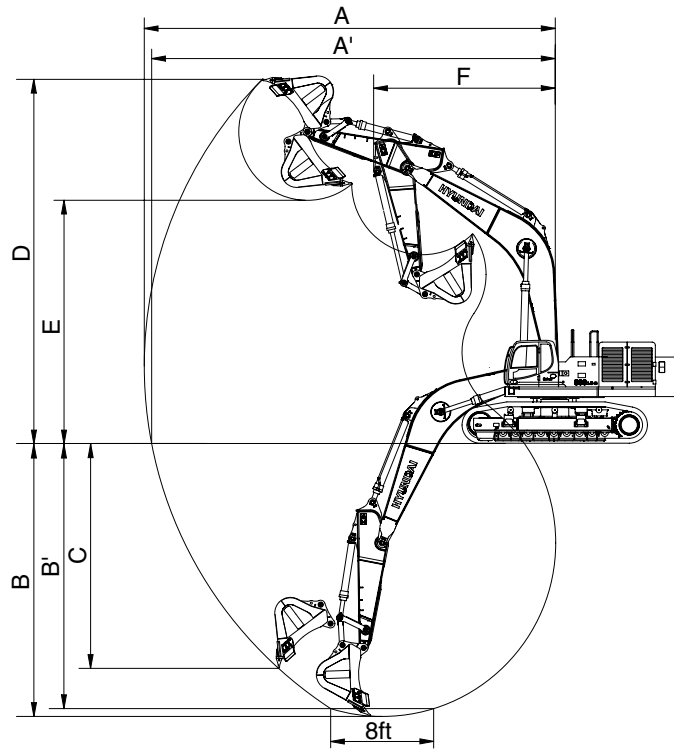


80092SP02

| Description  |    | Unit                              | Specification             |
|--|----|-----------------------------------|---------------------------|
| Operating weight   |    | kg (lb)                           | 85420 (188320)            |
| Bucket capacity (SAE heaped), standard                                   |    | m <sup>3</sup> (yd <sup>3</sup> ) | 2.56 (3.35)               |
| Overall length   | A  | mm (ft-in)                        | 16120 (52' 11")           |
| Overall width, with 700 mm shoe<br>(Transport position/Working position) | B  |                                   | 3675/4395 (12' 1"/14' 5") |
| Overall height   | C  |                                   | 5500 (18' 1")             |
| Superstructure width   | D  |                                   | 3420 (11' 3")             |
| Overall height of cab  | E  |                                   | 3580 (11' 9")             |
| Ground clearance of counterweight  | F  |                                   | 1570 ( 5' 2")             |
| Engine cover height  | G  |                                   | 3480 (11' 5")             |
| Minimum ground clearance   | H  |                                   | 928 ( 3' 1")              |
| Rear-end distance  | I  |                                   | 4200 (13' 9")             |
| Rear-end swing radius  | I' |                                   | 4315 (14' 2")             |
| Distance between tumblers  | J  |                                   | 5030 (16' 6")             |
| Undercarriage length   | K  |                                   | 6335 (20' 9")             |
| Undercarriage width<br>(Transport position/Working position)             | L  |                                   | 3480/4200 (11' 5"/13' 9") |
| Track gauge<br>(Transport position/Working position)                     | M  |                                   | 2780/3500 (9' 1"/11' 6")  |
| Track shoe width, standard   | N  | 700 (28")                         |                           |
| Travel speed (Low/high)  |    | km/hr (mph)                       | 2.6/4.0 (1.6/2.5)         |
| Swing speed  |    | rpm                               | 6.3                       |
| Gradeability   |    | Degree (%)                        | 35 (70)                   |
| Ground pressure(700 mm shoe)   |    | kgf/cm <sup>2</sup> (psi)         | 1.11 (15.78)              |
| Max traction force   |    | kg (lb)                           | 59300 (130730)            |

### 3. WORKING RANGE

· 7.2 m (23' 7") BOOM

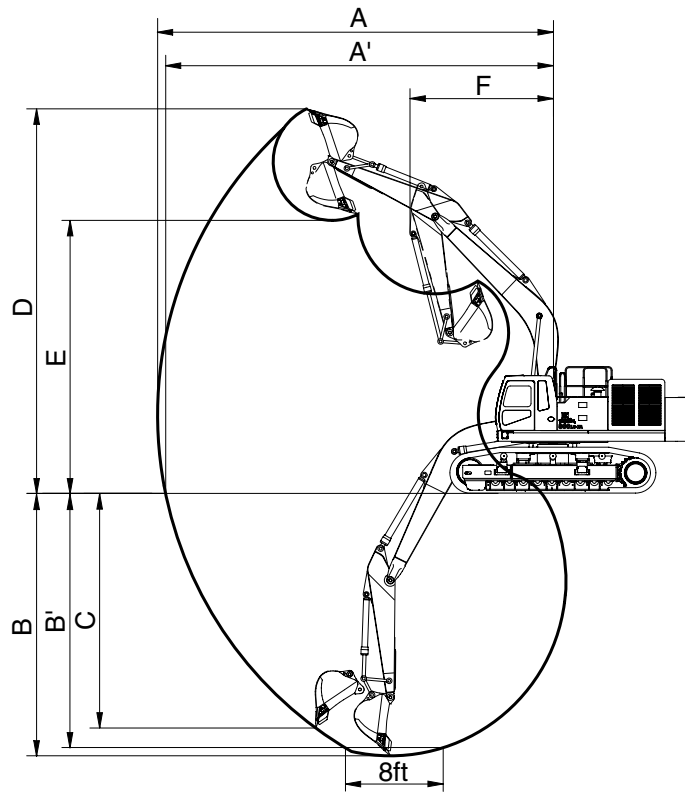


80092SP03

| Description                     |     | 2.95 m (9' 8") Arm |
|---------------------------------|-----|--------------------|
| Max digging reach               | A   | 12250 mm (40' 2")  |
| Max digging reach on ground     | A'  | 11970 mm (39' 3")  |
| Max digging depth               | B   | 7240 mm (23' 9")   |
| Max digging depth (8ft level)   | B'  | 7080 mm (23' 3")   |
| Max vertical wall digging depth | C   | 5670 mm (18' 7")   |
| Max digging height              | D   | 11750 mm (38' 7")  |
| Max dumping height              | E   | 7500 mm (24' 7")   |
| Min swing radius                | F   | 5120 mm (16' 10")  |
| Bucket digging force            | SAE | 388.3 [423.6] kN   |
|                                 |     | 39600 [43200] kgf  |
|                                 |     | 87300 [95240] lbf  |
|                                 | ISO | 443.3 [483.6] kN   |
|                                 |     | 45200 [49310] kgf  |
|                                 |     | 99650 [108710] lbf |
| Arm crowd force                 | SAE | 318.7 [347.7] kN   |
|                                 |     | 32500 [35460] kgf  |
|                                 |     | 71650 [78180] lbf  |
|                                 | ISO | 333.4 [363.7] kN   |
|                                 |     | 34000 [37090] kgf  |
|                                 |     | 74960 [81770] lbf  |

[ ] : Power boost

· 8.05 m (26' 5") BOOM

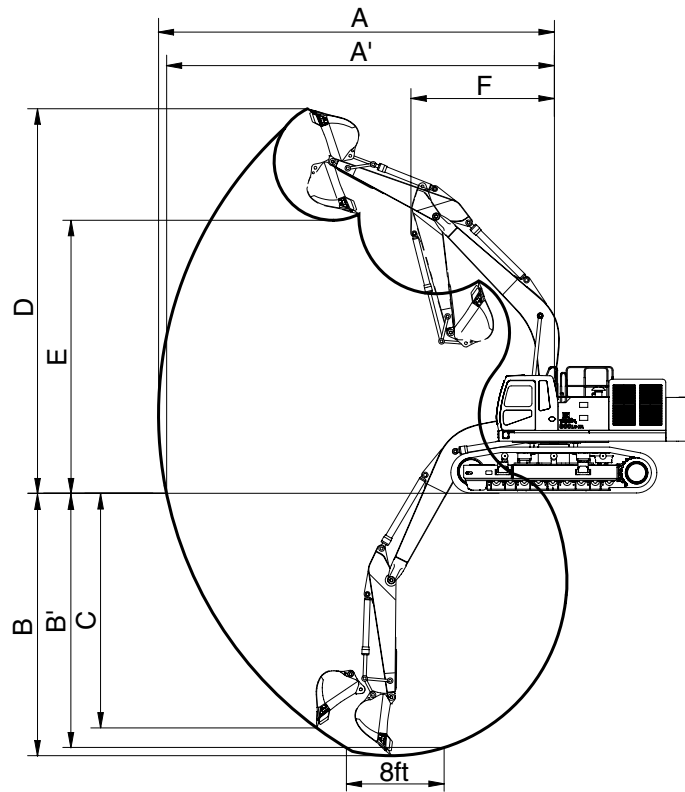


8007A2SP03

| Description                     |     | 3.40 m (11' 2") Arm |
|---------------------------------|-----|---------------------|
| Max digging reach               | A   | 13420 mm (44' 0")   |
| Max digging reach on ground     | A'  | 13160 mm (43' 2")   |
| Max digging depth               | B   | 8450 mm (27' 9")    |
| Max digging depth (8ft level)   | B'  | 8320 mm (27' 4")    |
| Max vertical wall digging depth | C   | 6190 mm (20' 4")    |
| Max digging height              | D   | 11820 mm (38' 9")   |
| Max dumping height              | E   | 7740 mm (25' 5")    |
| Min swing radius                | F   | 6000 mm (19' 8")    |
| Bucket digging force            | SAE | 336.4 [367.0] kN    |
|                                 |     | 34300 [37420] kgf   |
|                                 |     | 75620 [82500] lbf   |
|                                 | ISO | 384.4 [419.3] kN    |
|                                 |     | 39200 [42760] kgf   |
|                                 |     | 86420 [94270] lbf   |
| Arm crowd force                 | SAE | 292.2 [318.8] kN    |
|                                 |     | 29800 [32510] kgf   |
|                                 |     | 65670 [71670] lbf   |
|                                 | ISO | 305.0 [332.7] kN    |
|                                 |     | 31100 [33930] kgf   |
|                                 |     | 68560 [74800] lbf   |

[ ] : Power boost

· 8.20 m (26' 11") BOOM



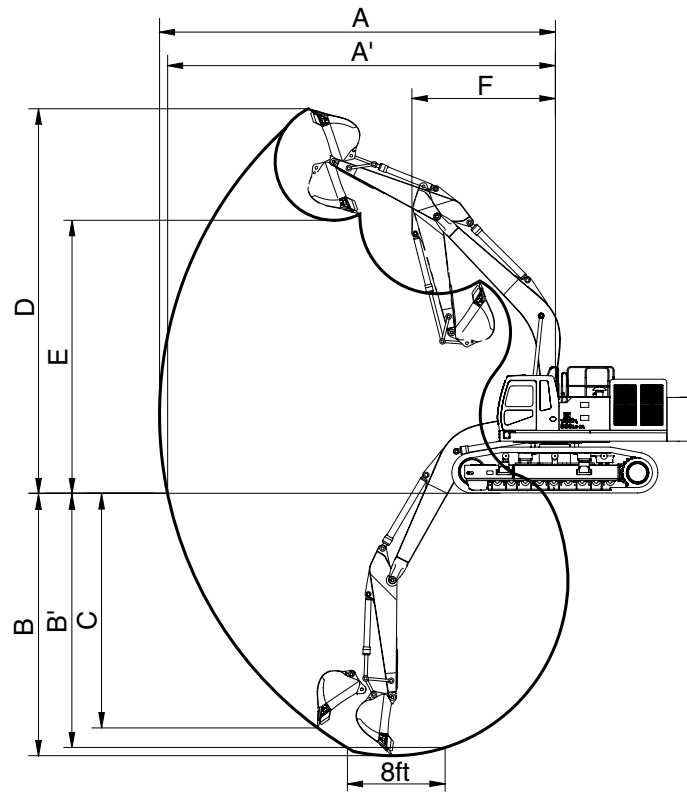
8007A2SP03

| Description                     |     | 3.60 m (11' 10") Arm |
|---------------------------------|-----|----------------------|
| Max digging reach               | A   | 13670 mm (44' 10")   |
| Max digging reach on ground     | A'  | 13420 mm (44' 0")    |
| Max digging depth               | B   | 8750 mm (28' 8")     |
| Max digging depth (8ft level)   | B'  | 8630 mm (28' 4")     |
| Max vertical wall digging depth | C   | 6170 mm (20' 3")     |
| Max digging height              | D   | 11780 mm (38' 8")    |
| Max dumping height              | E   | 7770 mm (25' 6")     |
| Min swing radius                | F   | 6080 mm (19' 11")    |
| Bucket digging force            | SAE | 336.4 [367.0] kN     |
|                                 |     | 34300 [37420] kgf    |
|                                 |     | 75620 [82500] lbf    |
|                                 | ISO | 384.4 [419.3] kN     |
|                                 |     | 39200 [42760] kgf    |
|                                 |     | 86420 [94270] lbf    |
| Arm crowd force                 | SAE | 282.4 [308.1] kN     |
|                                 |     | 28800 [31420] kgf    |
|                                 |     | 63490 [69270] lbf    |
|                                 | ISO | 294.2 [321.0] kN     |
|                                 |     | 30000 [32730] kgf    |
|                                 |     | 66140 [72160] lbf    |

[ ] : Power boost



· 10.5 m (34' 5") BOOM



8007A2SP03

| Description                     |     | 6.50 m (21' 4") Arm |
|---------------------------------|-----|---------------------|
| Max digging reach               | A   | 18470 mm (60' 7")   |
| Max digging reach on ground     | A'  | 18280 mm (60' 0")   |
| Max digging depth               | B   | 13040 mm (42' 9")   |
| Max digging depth (8ft level)   | B'  | 12940 mm (42' 5")   |
| Max vertical wall digging depth | C   | 12190 mm (40' 0")   |
| Max digging height              | D   | 15050 mm (49' 5")   |
| Max dumping height              | E   | 11680 mm (38' 4")   |
| Min swing radius                | F   | 7620 mm (25' 0")    |
| Bucket digging force            | SAE | 248.0 kN            |
|                                 |     | 25290 kgf           |
|                                 |     | 55750 lbf           |
|                                 | ISO | 291.1 kN            |
|                                 |     | 29680 kgf           |
|                                 |     | 65430 lbf           |
| Arm crowd force                 | SAE | 181.4 kN            |
|                                 |     | 18500 kgf           |
|                                 |     | 40790 lbf           |
|                                 | ISO | 186.1 kN            |
|                                 |     | 18980 kgf           |
|                                 |     | 41840 lbf           |

#### 4. WEIGHT













| Item  |                       | R800LC-9 |       |
|---|-----------------------|----------|-------|
|   |                       | kg       | lb    |
| Upperstructure assembly   |                       | 37510    | 82700 |
| Main frame weld assembly  |                       | 7620     | 16800 |
| Engine assembly   |                       | 1450     | 3200  |
| Main pump assembly  |                       | 300      | 660   |
| Main control valve assembly   |                       | 420      | 930   |
| Swing motor assembly  |                       | 450      | 990   |
| Hydraulic oil tank assembly   |                       | 1860     | 4100  |
| Fuel tank assembly  |                       | 1825     | 4020  |
| Counterweight   | 7.2, 8.05, 8.2 m boom | 12500    | 27560 |
|   | 10.5 m boom           | 15500    | 34170 |
| Cab assembly  |                       | 490      | 1080  |
| Lower chassis assembly  |                       | 26200    | 57760 |
| Lower track frame assy  |                       | 11960    | 26370 |
| Swing bearing   |                       | 1270     | 2800  |
| Travel motor assembly   |                       | 935      | 2060  |
| Turning joint   |                       | 75       | 165   |
| Track recoil spring and tension body  |                       | 740      | 1630  |
| Idler   |                       | 570      | 1260  |
| Sprocket  |                       | 240      | 530   |
| Carrier roller  |                       | 75       | 165   |
| Track roller  |                       | 185      | 410   |
| Track-chain assembly (700 mm double grouser shoe)   |                       | 4890     | 10780 |
| Front attachment assembly<br>(7.20 m boom, 2.95 m arm, 4.53 m <sup>3</sup> SAE heaped bucket) |                       | 18610    | 41030 |
| 7.20 m boom assembly  |                       | 6370     | 14040 |
| 8.05 m boom assy  |                       | 7020     | 15480 |
| 8.20 m boom assy  |                       | 7480     | 16490 |
| 10.5 m boom assy  |                       | 7230     | 15940 |
| 2.95 m arm assembly   |                       | 2910     | 6420  |
| 3.40 m arm assembly   |                       | 3070     | 6770  |
| 3.60 m arm assembly   |                       | 3290     | 7250  |
| 6.50 m arm assembly   |                       | 3600     | 7940  |
| 4.53 m <sup>3</sup> SAE heaped bucket   |                       | 4190     | 9240  |
| Boom cylinder assembly  |                       | 1460     | 3220  |
| Arm cylinder assembly   |                       | 950      | 2090  |
| Bucket cylinder assembly  |                       | 760      | 1680  |
| Bucket control rod assembly   |                       | 410      | 900   |

## 5. LIFTING CAPACITIES

1) 7.20 m (23' 7") boom, 2.95 m (9' 8") arm equipped with 4.53 m<sup>3</sup> (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

·  : Rating over-front

·  : Rating over-side or 360 degree















| Load point height | Load radius   |   |   |   |   |   |   |   |  |   | At max. reach   |   |        |        |
|-------------------|---|---|---|---|---|---|---|---|--|---|---|---|--------|--------|
|                   | 3.0 m (10.0 ft)   |   | 4.5 m (15.0 ft)   |   | 6.0 m (20.0 ft)   |   | 7.5 m (25.0 ft)   |   | 9.0 m (30.0 ft)  |   | Capacity  |   | Reach  |        |
|                   |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |
| 9.0m (30.0ft)     | kg  |   |   |   |   |   |   |   |  |   |   | *13240  | 13230  | 9.35   |
|                   | lb  |   |   |   |   |   |   |   |  |   |   | *29190  | 29170  | (30.7) |
| 7.5m (25.0ft)     | kg  |   |   |   |   |   |   |   | *1950  | *1950   | *12490  | 10520   | 10.28  |        |
|                   | lb  |   |   |   |   |   |   |   | *20710   | *20710  | *27540  | 23190   | (33.7) |        |
| 6.0m (20.0ft)     | kg  |   |   |   |   |   | *17220  | *17220  | *14700   | 13810   | *12010  | 8990  | 10.88  |        |
|                   | lb  |   |   |   |   |   | *37960  | *37960  | *32410   | 30450   | *26480  | 19820   | (35.7) |        |
| 4.5m (15.0ft)     | kg  |   | *32860  | *32860  | *23600  | *23600  | *18560  | *18560  | *15320   | 13340   | *11640  | 8140  | 11.22  |        |
|                   | lb  |   | *72440  | *76440  | *52030  | *52030  | *40920  | *40920  | *33770   | 29410   | *25660  | 17950   | (36.8) |        |
| 3.0m (10.0ft)     | kg  |   | *37060  | *37060  | *25840  | *25840  | *19740  | 17990   | *15850   | 12790   | *11290  | 7760  | 11.31  |        |
|                   | lb  |   | *81700  | *81700  | *56970  | *56970  | *43520  | 39660   | *34940   | 28200   | *24890  | 17110   | (37.1) |        |
| 1.5m (5.0ft)      | kg  |   | *37380  | *37380  | *26820  | 25030   | *20330  | 17060   | *16020   | 12260   | *10860  | 7800  | 11.18  |        |
|                   | lb  |   | *82410  | *82410  | *59130  | 55180   | *44820  | 37610   | *35320   | 27030   | *23940  | 17200   | (36.7) |        |
| Ground Lind       | kg  |   | *34900  | *34900  | *26180  | 24090   | *19990  | 16420   | *15520   | 11880   | *10220  | 8290  | 10.80  |        |
|                   | lb  |   | *76940  | *76940  | *57720  | 53110   | *44070  | 36200   | *34220   | 26190   | *22490  | 18280   | (35.4) |        |
| -1.5m (-5.0ft)    | kg  | *32990  | *32990  | *30820  | *30820  | *23970  | 23750   | *18460  | 16120  | *13950  | 11710   | *9070   | *9070  | 10.14  |
|                   | lb  | *72730  | *72730  | *67950  | *67950  | *52840  | 52360   | *40700  | 35540  | *30750  | 25820   | *20000  | *20000 | (33.3) |
| -3.0m (-10.0ft)   | kg  | *28600  | *28600  | *25100  | *25100  | *20080  | *20080  | *15360  | *15360   |   |   | *6950   | *6950  | 9.15   |
|                   | lb  | *63050  | *63050  | *55340  | *55340  | *44270  | *44270  | *33860  | *33860   |   |   | *15320  | *15320 | (30.0) |
| -4.5m (-15.0ft)   | kg  |   | *17110  | *17110  | *13920  | *13920  |   |   |  |   |   |   |        |        |
|                   | lb  |   | *37720  | *37720  | *30690  | *30690  |   |   |  |   |   |   |        |        |

- Note
1. Lifting capacity are based on SAE J1097 and ISO 10567.
  2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
  3. The load point is a hook located on the back of the bucket.
  4. \*indicates load limited by hydraulic capacity.

















2) 8.05 m (26' 5") boom, 3.40 m (11' 2") arm equipped with 3.4 m<sup>3</sup> (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

| Load point height  |          | Load radius      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                | At max. reach    |                  |                  |                 |
|--------------------|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|-----------------|
|                    |          | 3.0 m (10.0 ft)  |                  | 4.5 m (15.0 ft)  |                  | 6.0 m (20.0 ft)  |                  | 7.5 m (25.0 ft)  |                  | 9.0 m (30.0 ft)  |                  | 10.5 m (35.0 ft) |                | Capacity         |                  | Reach            |                 |
|                    |          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                |                  |                  | m (ft)           |                 |
| 10.5m<br>(35.0ft)  | kg<br>lb |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                |                  | *11350<br>*25020 | *11350<br>*25020 | 9.61<br>(31.5)  |
| 9.0m<br>(30.0ft)   | kg<br>lb |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                |                  | *10840<br>*23900 | *10840<br>*23900 | 10.76<br>(35.3) |
| 7.5m<br>(25.0ft)   | kg<br>lb |                  |                  |                  |                  |                  |                  |                  | *12650<br>*27890 | *12650<br>*27890 |                  |                  |                |                  | *10590<br>*23350 | 9140<br>20150    | 11.56<br>(37.9) |
| 6.0m<br>(20.0ft)   | kg<br>lb |                  |                  |                  |                  |                  |                  |                  | *13400<br>*29540 | *13400<br>*29540 | *11780<br>*25970 | 10920<br>24070   |                |                  | *10470<br>*23080 | 8020<br>17680    | 12.09<br>(39.7) |
| 4.5m<br>(15.0ft)   | kg<br>lb |                  |                  | *31100<br>*68560 | *31100<br>*68560 | *21890<br>*48260 | *21890<br>*48260 | *17200<br>*37920 | *17200<br>*37920 | *14330<br>*31590 | 14240<br>31390   | *12390<br>*27320 | 10540<br>23240 | *10430<br>*22990 | 7350<br>16200    | 12.39<br>(40.6)  |                 |
| 3.0m<br>(10.0ft)   | kg<br>lb |                  |                  |                  |                  | *24560<br>*54150 | *24560<br>*54150 | *18750<br>*41340 | 18410<br>40590   | *15230<br>*33580 | 13470<br>29700   | *12860<br>*28350 | 10100<br>22270 | *10430<br>*22990 | 7010<br>15450    | 12.47<br>(40.9)  |                 |
| 1.5m<br>(5.0ft)    | kg<br>lb |                  |                  |                  |                  | *26100<br>*57540 | 24700<br>54450   | *19830<br>*43720 | 17290<br>38120   | *15900<br>*35050 | 12770<br>28150   | *13180<br>*29060 | 9680<br>21340  | *10430<br>*22990 | 6960<br>15340    | 12.35<br>(40.5)  |                 |
| Ground<br>Line     | kg<br>lb |                  |                  | *28910<br>*63740 | *28910<br>*63740 | *26300<br>*57980 | 23680<br>52210   | *20210<br>*44560 | 16510<br>36400   | *16130<br>*35560 | 12240<br>26980   | *13160<br>*29010 | 9340<br>20590  | *10360<br>*22840 | 7230<br>15940    | 12.02<br>(39.4)  |                 |
| -1.5m<br>(-5.0ft)  | kg<br>lb | *25600<br>*56440 | *25600<br>*56440 | *32870<br>*72470 | *32870<br>*72470 | *25320<br>*55820 | 23260<br>51280   | *19770<br>*43590 | 16080<br>35450   | *15750<br>*34720 | 11910<br>26260   | *12580<br>*27730 | 9160<br>20190  | *10150<br>*22380 | 7890<br>17390    | 11.44<br>(37.5)  |                 |
| -3.0m<br>(-10.0ft) | kg<br>lb | *33670<br>*74230 | *33670<br>*74230 | *29490<br>*65010 | *29490<br>*65010 | *23270<br>*51300 | 23260<br>51280   | *18390<br>*40540 | 15970<br>35210   | *14550<br>*32080 | 11820<br>26060   |                  |                | *9610<br>*21190  | 9180<br>20240    | 10.59<br>(34.7)  |                 |
| -4.5m<br>(-15.0ft) | kg<br>lb | *29990<br>*66120 | *29990<br>*66120 | *24760<br>*54590 | *24760<br>*54590 | *19940<br>*43960 | *19940<br>*43960 | *15790<br>*34810 | *15790<br>*34810 |                  |                  |                  |                | *8300<br>*18300  | *8300<br>*18300  | 9.37<br>(30.7)   |                 |
| -6.0m<br>(-20.0ft) | kg<br>lb |                  |                  | *17990<br>*39660 | *17990<br>*39660 | *14730<br>*32470 | *14730<br>*32470 | *11080<br>*24430 | *11080<br>*24430 |                  |                  |                  |                |                  |                  |                  |                 |















3) 8.20 m (26' 11") boom, 3.60 m (11' 10") arm equipped with 3.4 m<sup>3</sup> (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

| Load point height |    | Load radius   |   |   |   |   |   |   |   |   |   |   |   | At max. reach   |   |        |        |        |
|-------------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|--------|
|                   |    | 3.0 m (10.0 ft)   |   | 4.5 m (15.0 ft)   |   | 6.0 m (20.0 ft)   |   | 7.5 m (25.0 ft)   |   | 9.0 m (30.0 ft)   |   | 10.5 m (35.0 ft)  |   | Capacity  |   | Reach  |        |        |
|                   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |        |
| 10.5 m (35.0 ft)  | kg |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *9710  | *9710  | 9.96   |
|                   | lb |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *21410 | *21410 | (32.7) |
| 9.0 m (30.0 ft)   | kg |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *9250  | *9250  | 11.06  |
|                   | lb |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *20390 | *20390 | (36.3) |
| 7.5 m (25.0 ft)   | kg |   |   |   |   |   |   |   | *11260  | *11260  | *8340   | *8340   | *9020   | 7830  | 11.84   |        |        |        |
|                   | lb |   |   |   |   |   |   |   | *24820  | *24820  | *18390  | *18390  | *19890  | 17260   | (38.8)  |        |        |        |
| 6.0 m (20.0 ft)   | kg |   |   |   |   |   |   |   | *12020  | *12020  | *10540  | 10140   | *8920   | 6760  | 12.36   |        |        |        |
|                   | lb |   |   |   |   |   |   |   | *26500  | *26500  | *23240  | 22350   | *19670  | 14900   | (40.6)  |        |        |        |
| 4.5 m (15.0 ft)   | kg |   |   | *29330  | *29330  | *20370  | *20370  | *15760  | *15760  | *12950  | *12950  | *11040  | 9700  | *8900   | 6110  | 12.65  |        |        |
|                   | lb |   |   | *64660  | *64660  | *44910  | *44910  | *34740  | *34740  | *28550  | *28550  | *24340  | 21380   | *19620  | 13470   | (41.5) |        |        |
| 3.0 m (10.0 ft)   | kg |   |   |   |   | *22960  | *22960  | *17280  | *17280  | *13850  | 12520   | *11540  | 9200  | *8910   | 5760  | 12.73  |        |        |
|                   | lb |   |   |   |   | *50620  | *50620  | *38100  | *38100  | *30530  | 27600   | *25440  | 20280   | *19640  | 12700   | (41.8) |        |        |
| 1.5 m (5.0 ft)    | kg |   |   |   |   | *24480  | 23410   | *18350  | 16180   | *14520  | 11760   | *11890  | 8720  | *8930   | 8690  | 12.61  |        |        |
|                   | lb |   |   |   |   | *53970  | 51610   | *40450  | 35670   | *32010  | 25930   | *26210  | 19220   | *19690  | 12540   | (41.4) |        |        |
| Ground Line       | kg |   |   | *28020  | *28020  | *24720  | 22290   | *18760  | 15330   | *14790  | 11170   | *11940  | 8350  | *8900   | 5910  | 12.28  |        |        |
|                   | lb |   |   | *61770  | *61770  | *54500  | 49140   | *41360  | 33800   | *32610  | 24630   | *26320  | 18410   | *19620  | 13030   | (40.3) |        |        |
| -1.5 m (-5.0 ft)  | kg | *24830  | *24830  | *31320  | *31320  | *23850  | 21820   | *18410  | 14850   | *14510  | 10810   | *11510  | 8130  | *8760   | 6490  | 11.72  |        |        |
|                   | lb | *54740  | *54740  | *69050  | *69050  | *52580  | 48100   | *40590  | 32740   | *31990  | 23830   | *25380  | 17920   | *19310  | 14310   | (38.5) |        |        |
| -3.0 m (-10.0 ft) | kg | *32270  | *32270  | *28170  | *28170  | *21980  | 21810   | *17200  | 14720   | *13490  | 10690   |   |   | *8340   | 7630  | 10.90  |        |        |
|                   | lb | *71140  | *71140  | *62100  | *62100  | *48460  | 48080   | *37920  | 32450   | *29740  | 23570   |   |   | *18390  | 16820   | (35.8) |        |        |
| -4.5 m (-15.0 ft) | kg | *29280  | *29280  | *23800  | *23800  | *18960  | *18960  | *14900  | *14900  | *11340  | 10860   |   |   | *7310   | *7310   | 9.72   |        |        |
|                   | lb | *64550  | *64550  | *52470  | *52470  | *41800  | *41800  | *32850  | *32850  | *25000  | 23940   |   |   | *16120  | *16120  | (31.9) |        |        |
| -6.0 m (-20.0 ft) | kg |   |   | *17630  | *17630  | *14310  | *14310  | *10890  | *10890  |   |   |   |   |   |   |        |        |        |
|                   | lb |   |   | *38870  | *38870  | *31550  | *31550  | *24010  | *24010  |   |   |   |   |   |   |        |        |        |

4) 10.5 m (34' 5") boom, 6.50 m (21' 4") arm equipped with 2.56 m<sup>3</sup> (SAE heaped) bucket, 700 mm (28") double grouser shoe and 15,500 kg (34,170 lb) counterweight.

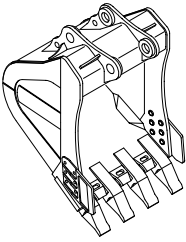
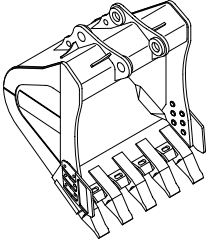
| Load point height |    | Load radius   |   |   |   |   |   |   |   |   |   |   |  |   |   | At max. reach   |   |        |        |        |
|-------------------|----|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|--------|--------|--------|
|                   |    | 3.0 m (10.0 ft)   |   | 4.5 m (15.0 ft)   |   | 6.0 m (20.0 ft)   |   | 7.5 m (25.0 ft)   |   | 9.0 m (30.0 ft)   |   | 10.5 m (35.0 ft)  |  | 12.0 m (40.0 ft)  |   | Capacity  | Reach   |        |        |        |
|                   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |        |
| 12.0 m (40.0 ft)  | kg |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *6740  | *6740  | 15.14  |
|                   | lb |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *14860 | *14860 | (49.7) |
| 10.5 m (35.0 ft)  | kg |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *6540  | 6250   | 16.01  |
|                   | lb |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *14420 | 13780  | (52.5) |
| 9.0 m (30.0 ft)   | kg |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *6440  | 5550   | 16.68  |
|                   | lb |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *14200 | 12240  | (54.7) |
| 7.5 m (25.0 ft)   | kg |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *6320  | 5040   | 17.19  |
|                   | lb |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   | *13930 | 11110  | (56.4) |
| 6.0 m (20.0 ft)   | kg |   |   |   |   |   |   |   |   |   |   |   |  | *8800   | *8800   | *6240   | 4670  | 17.54  |        |        |
|                   | lb |   |   |   |   |   |   |   |   |   |   |   |  | *19400  | *19400  | *13760  | 10300   | (57.5) |        |        |
| 4.5 m (15.0 ft)   | kg |   |   |   |   |   |   |   | *12460  | *12460  | *10610  | *10610  | *9270  | *9270   | *6180   | 4410  | 17.74   |        |        |        |
|                   | lb |   |   |   |   |   |   |   | *27470  | *27470  | *23390  | *23390  | *20440   | *20440  | *13620  | 9720  | (58.2)  |        |        |        |
| 3.0 m (10.0 ft)   | kg |   |   |   | *22220  | *22220  | *16780  | *16780  | *13490  | *13490  | *11300  | *11300  | *9730  | 9500  | *6130   | 4250  | 17.81   |        |        |        |
|                   | lb |   |   |   | *48990  | *48990  | *36990  | *36990  | *29740  | *29740  | *24910  | *24910  | *21450   | 20940   | *13510  | 9370  | (58.4)  |        |        |        |
| 1.5 m (5.0 ft)    | kg |   |   |   | *23920  | *23920  | *18000  | *18000  | *14340  | 14310   | *11880  | 11230   | *10120   | 8980  | *6080   | 4180  | 17.74   |        |        |        |
|                   | lb |   |   |   | *52730  | *52730  | *39680  | *39680  | *31610  | 31550   | *26190  | 24760   | *22310   | 19800   | *13400  | 9220  | (58.2)  |        |        |        |
| Ground Line       | kg |   |   | *12960  | *12960  | *21520  | *21520  | *18680  | 17660   | *14890  | 13460   | *12280  | 10610  | *10390  | 8530  | *6030   | 4210  | 17.53  |        |        |
|                   | lb |   |   | *28570  | *28570  | *47440  | *47440  | *41180  | 38930   | *32830  | 29670   | *27070  | 23390  | *22910  | 18810   | *13290  | 9280  | (57.5) |        |        |
| -1.5 m (-5.0 ft)  | kg | *11860  | *11860  | *15180  | *15180  | *22180  | *22180  | *18800  | 16930   | *15080  | 12850   | *12440  | 10130  | *10480  | 8170  | *5940   | 4340  | 17.17  |        |        |
|                   | lb | *26150  | *26150  | *33470  | *33470  | *48900  | *48900  | *41450  | 37320   | *33250  | 28330   | *27430  | 22330  | *23100  | 18010   | *13100  | 9570  | (56.3) |        |        |
| -3.0 m (-10.0 ft) | kg | *14720  | *14720  | *17880  | *17880  | *23250  | *23250  | *18390  | 16520   | *14890  | 12470   | *12310  | 9810   | *10340  | 7920  | *5820   | 4590  | 16.66  |        |        |
|                   | lb | *32450  | *32450  | *39420  | *39420  | *51260  | *51260  | *40540  | 36420   | *32830  | 27490   | *27140  | 21630  | *22800  | 17460   | *12830  | 10120   | (54.7) |        |        |
| -4.5 m (-15.0 ft) | kg | *17670  | *17670  | *20980  | *20980  | *21760  | *21760  | *17490  | 16380   | *14300  | 12280   | *11860  | 9640   | *9920   | 7790  | *5610   | 4990  | 15.99  |        |        |
|                   | lb | *38960  | *38960  | *46250  | *46250  | *47970  | *47970  | *38560  | 36110   | *31530  | 27070   | *26150  | 21250  | *21870  | 17170   | *12370  | 11000   | (52.5) |        |        |
| -6.0 m (-20.0 ft) | kg | *20850  | *20850  | *24540  | *24540  | *19720  | *19720  | *16090  | *16090  | *13260  | 12270   | *11010  | 9620   | *9110   | 7780  | *5280   | *5280   | 15.11  |        |        |
|                   | lb | *45970  | *45970  | *54100  | *54100  | *43480  | *43480  | *35470  | *35470  | *29230  | 27050   | *24270  | 21210  | *20080  | 17150   | *11640  | *11640  | (49.6) |        |        |

5) 8.20 m (26' 11") boom, 3.40 m (11' 2") arm equipped with 3.4 m<sup>3</sup> (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

| Load point height | Load radius   |   |   |   |   |   |   |   |   |   |   |   | At max. reach   |   |        |        |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
|                   | 3.0 m (10.0 ft)   |   | 4.5 m (15.0 ft)   |   | 6.0 m (20.0 ft)   |   | 7.5 m (25.0 ft)   |   | 9.0 m (30.0 ft)   |   | 10.5 m (35.0 ft)  |   | Capacity  |   | Reach  |        |
|                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |
| 10.5 m (35.0 ft)  | kg  |   |   |   |   |   |   |   |   |   |   |   |   | *10100  | *10100 | 9.72   |
|                   | lb  |   |   |   |   |   |   |   |   |   |   |   |   | *22270  | *22270 | (31.9) |
| 9.0 m (30.0 ft)   | kg  |   |   |   |   |   |   |   |   |   |   |   |   | *9610   | *9610  | 10.86  |
|                   | lb  |   |   |   |   |   |   |   |   |   |   |   |   | *21190  | *21190 | (35.6) |
| 7.5 m (25.0 ft)   | kg  |   |   |   |   |   |   | *11590  | *11590  |   |   |   |   | *9370   | 8150   | 11.65  |
|                   | lb  |   |   |   |   |   |   | *15550  | *15550  |   |   |   |   | *20660  | 17970  | (38.2) |
| 6.0 m (20.0 ft)   | kg  |   |   |   |   |   |   | *12350  | *12350  | *10810  | 10120   |   |   | *9260   | 7040   | 12.17  |
|                   | lb  |   |   |   |   |   |   | *27230  | *27230  | *23830  | 22310   |   |   | *20410  | 15520  | (39.9) |
| 4.5 m (15.0 ft)   | kg  |   | *30400  | *30400  | *20970  | *20970  | *16190  | *16190  | *13270  | *13270  | *11300  | 9710  |   | *9230   | 6370   | 12.47  |
|                   | lb  |   | *67020  | *67020  | *46230  | *46230  | *35690  | *35690  | *29260  | *29260  | *24910  | 21410   |   | *20350  | 14040  | (40.9) |
| 3.0 m (10.0 ft)   | kg  |   |   |   | *23470  | *23470  | *17670  | 17430   | *14150  | 12570   | *11770  | 9250  |   | *9230   | 6020   | 12.55  |
|                   | lb  |   |   |   | *51740  | *51740  | *38960  | 38430   | *31200  | 27710   | *25950  | 20390   |   | *20350  | 13270  | (41.2) |
| 1.5 m (5.0 ft)    | kg  |   |   |   | *24840  | 23450   | *18670  | 16270   | *14780  | 11850   | *12080  | 8810  |   | *9240   | 5970   | 12.43  |
|                   | lb  |   |   |   | *54760  | 51700   | *41160  | 35870   | *32580  | 26120   | *26630  | 19420   |   | *20370  | 13160  | (40.8) |
| Ground Line       | kg  |   | *27690  | *27690  | *24910  | 22450   | *18990  | 15470   | *14990  | 11300   | *12080  | 8460  |   | *9200   | 6220   | 12.10  |
|                   | lb  |   | *61050  | *61050  | *54920  | 49490   | *41870  | 34110   | *33050  | 24910   | *26630  | 18650   |   | *20280  | 13710  | (39.7) |
| -1.5 m (-5.0 ft)  | kg  | *25220  | *25220  | *30910  | *30910  | *23880  | 22070   | *18530  | 15050   | *14620  | 10970   | *11550  | 8260  | *9020   | 6850   | 11.53  |
|                   | lb  | *55600  | *55600  | *68140  | *68140  | *52650  | 48660   | *40850  | 33180   | *32230  | 24180   | *25460  | 18210   | *19890  | 15100  | (37.8) |
| -3.0 m (-10.0 ft) | kg  | *33240  | *33240  | *27670  | *27670  | *21860  | *21860  | *17190  | 14950   | *13480  | 10890   |   |   | *8540   | 8100   | 10.69  |
|                   | lb  | *73280  | *73280  | *61000  | *61000  | *48190  | *48190  | *37900  | 32960   | *29720  | 24010   |   |   | *18830  | 17860  | (35.1) |
| -4.5 m (-15.0 ft) | kg  | *27700  | *27700  | *23160  | *23160  | *18670  | *18670  | *14720  | *14720  | *11100  | *11100  |   |   | *7350   | *7350  | 9.48   |
|                   | lb  | *61070  | *61070  | *51060  | *51060  | *41160  | *41160  | *32450  | *32450  | *24470  | *24470  |   |   | *16200  | *16200 | (31.1) |
| -6.0 m (-20.0 ft) | kg  |   |   | *16770  | *16770  | *13750  | *13750  | *10370  | *10370  |   |   |   |   |   |        |        |
|                   | lb  |   |   | *36970  | *36970  | *30310  | *30310  | *22860  | *22860  |   |   |   |   |   |        |        |

## 6. BUCKET SELECTION GUIDE

### 1) GENERAL BUCKET

|   |  |
|---|--|
|  |  |
| 1.65 m <sup>3</sup> SAE<br>heaped bucket  | 2.56 m <sup>3</sup> SAE<br>heaped bucket   |

| Capacity                                       |  | Width               |                    | Weight               | Recommendation      |                     |
|--|--|---------------------|--------------------|----------------------|---------------------|---------------------|
|  |  |                     |                    |                      | 10.5 m (34'5") boom | 11.3 m (37'1") boom |
| SAE heaped                                     | CECE heaped                                    | Without side cutter | With side cutter   |                      | 6.5 m arm (21' 4")  | 8.0 m arm (26' 3")  |
| 1.65 m <sup>3</sup><br>(2.16 yd <sup>3</sup> ) | 1.48 m <sup>3</sup><br>(1.94 yd <sup>3</sup> ) | 1140 mm<br>(44.9")  | 1290 mm<br>(50.8") | 1520 kg<br>(3350 lb) | -                   |                     |
| 2.56 m <sup>3</sup><br>(3.35 yd <sup>3</sup> ) | 2.27 m <sup>3</sup><br>(2.97 yd <sup>3</sup> ) | 1635 mm<br>(64.4")  | 1785 mm<br>(70.3") | 1870 kg<br>(4120 lb) |                     | -                   |

Applicable for materials with density of 2000kg/m<sup>3</sup> (3370lb/yd<sup>3</sup>) or less

Applicable for materials with density of 1600kg/m<sup>3</sup> (2700lb/yd<sup>3</sup>) or less

Applicable for materials with density of 1100kg/m<sup>3</sup> (1850lb/yd<sup>3</sup>) or less



## 2) ROCK BUCKET

|   |   |   |  |   |
|---|---|---|--|---|
|   |   |   |  |   |
| ⊙ 3.40m <sup>3</sup> SAE heaped bucket (A TYPE) | ⊙ 3.40m <sup>3</sup> SAE heaped bucket (B TYPE) | ⊙ 4.04m <sup>3</sup> , 4.50m <sup>3</sup> SAE heaped bucket | ◆ 3.40m <sup>3</sup> SAE heaped bucket | ◆ 4.04m <sup>3</sup> , 4.50m <sup>3</sup> SAE heaped bucket |

| Capacity  |   | Width               |                  | Weight             | Recommendation      |                      |                      |
|---|---|---------------------|------------------|--------------------|---------------------|----------------------|----------------------|
|   |   |                     |                  |                    | 7.2 m (23' 7") boom | 8.05 m (26' 5") boom | 8.2 m (26' 11") boom |
| SAE heaped  | CECE heaped                                 | Without side cutter | With side cutter |                    | 2.95 m arm (9' 8")  | 3.40 m arm (11' 2")  | 3.60 m arm (11' 10") |
| ⊙ 3.40 m <sup>3</sup> (4.45 yd <sup>3</sup> )<br>A TYPE | 3.05 m <sup>3</sup> (3.99 yd <sup>3</sup> ) | 1740 mm (68.5")     | -                | 4600 kg (10140 lb) |                     |                      |                      |
| ⊙ 3.40 m <sup>3</sup> (4.45 yd <sup>3</sup> )<br>B TYPE | 2.97 m <sup>3</sup> (3.88 yd <sup>3</sup> ) | 1700 mm (66.9")     | -                | 3780 kg (8330 lb)  |                     |                      |                      |
| ⊙ 4.04 m <sup>3</sup> (5.28 yd <sup>3</sup> )           | 3.60 m <sup>3</sup> (4.71 yd <sup>3</sup> ) | 1970 mm (77.6")     | -                | 5020 kg (11070 lb) |                     |                      |                      |
| ⊙ 4.50 m <sup>3</sup> (5.88 yd <sup>3</sup> )           | 3.99 m <sup>3</sup> (5.22 yd <sup>3</sup> ) | 2130 mm (83.8")     | -                | 5240 kg (11550 lb) |                     |                      |                      |
| ◆ 3.40 m <sup>3</sup> (4.45 yd <sup>3</sup> )           | 3.05 m <sup>3</sup> (3.99 yd <sup>3</sup> ) | 1740 mm (68.5")     | -                | 4670 kg (10230 lb) |                     |                      |                      |
| ◆ 4.04 m <sup>3</sup> (5.28 yd <sup>3</sup> )           | 3.60 m <sup>3</sup> (4.71 yd <sup>3</sup> ) | 1970 mm (77.6")     | -                | 4890 kg (10780 lb) |                     |                      |                      |
| ◆ 4.50 m <sup>3</sup> (5.88 yd <sup>3</sup> )           | 3.99 m <sup>3</sup> (5.22 yd <sup>3</sup> ) | 2130 mm (83.8")     | -                | 5240 kg (11550 lb) |                     |                      |                      |

⊙ : Rock bucket      ◆ : Heavy duty bucket

Applicable for materials with density of 2000 kg/m<sup>3</sup> (3370 lb/yd<sup>3</sup>) or less

Applicable for materials with density of 1600 kg/m<sup>3</sup> (2700 lb/yd<sup>3</sup>) or less

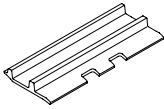
Applicable for materials with density of 1100 kg/m<sup>3</sup> (1850 lb/yd<sup>3</sup>) or less

## 7. UNDERCARRIAGE

### 1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

### 2) TYPES OF SHOES

| Model    | Shapes           |                           | Double grouser   |                |                |
|----------|------------------|---------------------------|--|----------------|----------------|
|          |                  |                           |  |                |                |
| R800LC-9 | Shoe width       | mm (in)                   | 700 (28)   | 800 (32)       | 900 (36)       |
|          | Operating weight | kg (lb)                   | 83400 (183860)   | 84270 (185780) | 85150 (187720) |
|          | Ground pressure  | kgf/cm <sup>2</sup> (psi) | 1.08 (15.36)   | 0.96 (13.65)   | 0.86 (12.23)   |
|          | Overall width    | mm (ft-in)                | 4200 (13' 9")  | 4300 (14' 1")  | 4400 (14' 5")  |

### 3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

| Item            | Quantity |
|-----------------|----------|
| Carrier rollers | 3EA      |
| Track rollers   | 9EA      |
| Track shoes     | 51EA     |

#### 4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

##### Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe.

Wide shoes (Categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable.

Select the narrowest shoe possible to meet the required flotation and ground pressure.

Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

※ **Table 1**

| Track shoe            | Specification | Category |
|-----------------------|---------------|----------|
| 700 mm double grouser | Standard      | A        |
| 800 mm double grouser | Option        | B        |
| 900 mm double grouser | Option        | C        |

※ **Table 2**

| Category | Applications                                | Applications   |
|----------|---|--|
| A        | Rocky ground,<br>river beds,<br>normal soil | <ul style="list-style-type: none"> <li>Travel at low speed on rough ground with large obstacles such as boulders or fallen trees</li> </ul>  |
| B        | Normal soil,<br>soft ground                 | <ul style="list-style-type: none"> <li>These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees</li> <li>Travel at high speed only on flat ground</li> <li>Travel slowly at low speed if it is impossible to avoid going over obstacles</li> </ul>   |
| C        | Extremely soft ground<br>(Swampy ground)    | <ul style="list-style-type: none"> <li>Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B</li> <li>These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees</li> <li>Travel at high speed only on flat ground</li> <li>Travel slowly at low speed if it is impossible to avoid going over obstacles</li> </ul> |

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

| Item                                | Specification  |
|-------------------------------------|--|
| Model                               | Cummins QSX 15                                       |
| Type                                | 4-cycle turbocharged charge air cooled diesel engine |
| Cooling method                      | Water cooling  |
| Number of cylinders and arrangement | 6 cylinders, in-line                                 |
| Firing order                        | 1-5-3-6-2-4  |
| Combustion chamber type             | Direct injection type                                |
| Cylinder bore × stroke              | 137 × 169 mm (5.39" × 6.65")                         |
| Piston displacement                 | 15000 cc (915 cu in)                                 |
| Compression ratio                   | 17 : 1   |
| Rated gross horse power(SAE J1995)  | 510 hp at 1800 rpm (510 Hp / 380 kW at 1800 rpm)     |
| Maximum torque                      | 241.1 kgf · m (1744 lbf · ft) at 1400 rpm            |
| Engine oil quantity                 | 45.4 ℓ (12 U.S. gal)                                 |
| Dry weight                          | 1451 kg (3200 lb)                                    |
| High idling speed                   | 1800 ± 50 rpm  |
| Low idling speed                    | 800 ± 50 rpm   |
| Rated fuel consumption              | 165.5 g/Hp · hr at 1800 rpm                          |
| Starting motor                      | Prestolite MS7 (24V-9.0kW)                           |
| Alternator                          | Delco Remy 24V-100A                                  |
| Battery                             | 4 × 12V × 160Ah                                      |

### 2) MAIN PUMP

| Item             | Specification   |
|------------------|---|
| Type             | Variable displacement tandem axis piston pumps                          |
| Capacity         | 2 × 280 cc/rev  |
| Maximum pressure | 330 kgf/cm <sup>2</sup> (4690 psi) [360 kgf/cm <sup>2</sup> (5120 psi)] |
| Rated oil flow   | 2 × 504 ℓ/min (133.1U.S. gpm/110.9U.K. gpm)                             |
| Rated speed      | 1800 rpm  |

[ ] : Power boost

### 3) GEAR PUMP

| Item             | Specification                             |
|------------------|---|
| Type             | Fixed displacement gear pump single stage |
| Capacity         | 15 cc/rev                                 |
| Maximum pressure | 40 kgf/cm <sup>2</sup> (569 psi)          |
| Rated oil flow   | 27 ℓ /min (7.1 U.S. gpm/5.9 U.K. gpm)     |

### 4) MAIN CONTROL VALVE

| Item                           | Specification   |
|--------------------------------|---|
| Type                           | 9 spools  |
| Operating method               | Hydraulic pilot system  |
| Main relief valve pressure     | 330 kgf/cm <sup>2</sup> (4690 psi) [360 kgf/cm <sup>2</sup> (5120 psi)] |
| Overload relief valve pressure | 380 kgf/cm <sup>2</sup> (5400 psi)                                      |

[ ] : Power boost

### 5) SWING MOTOR

| Item                   | Specification                                |
|------------------------|--|
| Type                   | Fixed displacement axial piston motor        |
| Capacity               | 250 cc/rev                                   |
| Relief pressure        | 290 kgf/cm <sup>2</sup> (4120 psi)           |
| Braking system         | Automatic, spring applied hydraulic released |
| Braking torque         | 107 kgf · m (774 lbf · ft)                   |
| Brake release pressure | 30~50 kgf/cm <sup>2</sup> (427~711 psi)      |
| Reduction gear type    | 2 - stage planetary                          |

### 6) TRAVEL MOTOR

| Item                   | Specification                                |
|------------------------|--|
| Type                   | Variable displacement axial piston motor     |
| Relief pressure        | 350 kgf/cm <sup>2</sup> (4980psi)            |
| Capacity (max / min)   | 304.1/205.2 cc/rev                           |
| Reduction gear type    | 3-stage planetary                            |
| Braking system         | Automatic, spring applied hydraulic released |
| Brake release pressure | 18 kgf/cm <sup>2</sup> (256 psi)             |
| Braking torque         | 114 kgf · m (825 lbf · ft)                   |

## 7) REMOTE CONTROL VALVE

| Item                    |         | Specification                    |
|-------------------------|---------|----------------------------------|
| Type                    |         | Pressure reducing type           |
| Operating pressure      | Minimum | 6.5 kgf/cm <sup>2</sup> (92 psi) |
|                         | Maximum | 25 kgf/cm <sup>2</sup> (360 psi) |
| Single operation stroke | Lever   | 61 mm (2.4 in)                   |
|                         | Pedal   | 123 mm (4.84 in)                 |

## 8) CYLINDER

| Item            |                             | Specification           |
|-----------------|-----------------------------|-------------------------|
| Boom cylinder   | Bore dia × Rod dia × Stroke | ∅ 200 × ∅ 140 × 1892 mm |
|                 | Cushion                     | Extend only             |
| Arm cylinder    | Bore dia × Rod dia × Stroke | ∅ 215 × ∅ 150 × 2250 mm |
|                 | Cushion                     | Extend and retract      |
| Bucket cylinder | Bore dia × Rod dia × Stroke | ∅ 200 × ∅ 140 × 1593 mm |
|                 | Cushion                     | Extend only             |

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

## 9) SHOE

| Item     |          | Width          | Ground pressure                      | Link quantity | Overall width    |
|----------|----------|----------------|--------------------------------------|---------------|------------------|
| R800LC-9 | Standard | ※ 700 mm (28") | 1.08 kgf/cm <sup>2</sup> (15.36 psi) | 51            | 4200 mm (13' 9") |
|          | Option   | ※ 800 mm (32") | 0.95 kgf/cm <sup>2</sup> (13.51 psi) | 51            | 4300 mm (14' 1") |
|          |          | ※ 900 mm (36") | 0.85 kgf/cm <sup>2</sup> (12.09 psi) | 51            | 4400 mm (14' 5") |

※ Double grouser

## 10) BUCKET

| Item     |          | Capacity                                      |   | Tooth quantity | Width               |                  |
|----------|----------|---|---|----------------|---------------------|------------------|
|          |          | SAE heaped                                    | CECE heaped                                 |                | Without side cutter | With side cutter |
| R800LC-9 | Standard | 4.53 m <sup>3</sup> (5.93 yd <sup>3</sup> )   | 3.95 m <sup>3</sup> (5.17 yd <sup>3</sup> ) | 5              | 2040 mm (80.3")     | 2200 mm (86.6")  |
|          | Option   | 2.56 m <sup>3</sup> (3.35 yd <sup>3</sup> )   | 2.27 m <sup>3</sup> (2.97 yd <sup>3</sup> ) | 5              | 1635 mm (64.4")     | 1785 mm (70.3")  |
|          |          | 3.40 m <sup>3</sup> (4.45 yd <sup>3</sup> )   | 3.00 m <sup>3</sup> (3.92 yd <sup>3</sup> ) | 4              | 1615 mm (63.6")     | 1775 mm (69.9")  |
|          |          | 4.80 m <sup>3</sup> (6.28 yd <sup>3</sup> )   | 4.19 m <sup>3</sup> (5.48 yd <sup>3</sup> ) | 5              | 2135 mm (84.1")     | 2295 mm (90.4")  |
|          |          | 5.10 m <sup>3</sup> (6.67 yd <sup>3</sup> )   | 4.44 m <sup>3</sup> (5.81 yd <sup>3</sup> ) | 6              | 2245 mm (88.4")     | 2405 mm (94.7")  |
|          |          | ⊙ 3.40 m <sup>3</sup> (4.45 yd <sup>3</sup> ) | 3.00 m <sup>3</sup> (3.92 yd <sup>3</sup> ) | 4              | 1635 mm (64.4")     | -                |
|          |          | ⊙ 4.50 m <sup>3</sup> (5.86 yd <sup>3</sup> ) | 3.94 m <sup>3</sup> (5.15 yd <sup>3</sup> ) | 5              | 2050 mm (80.7")     | -                |

⊙ : Rock bucket

## 9. RECOMMENDED OILS

Use only oils listed below. Do not mix different brand oil.

Please use HYUNDAI genuine oil and grease.

| Service point                | Kind of fluid                         | Capacity<br>ℓ (U.S. gal)                           | Ambient temperature °C ( °F)                   |              |             |             |           |            |            |
|------------------------------|---------------------------------------|--|--|--------------|-------------|-------------|-----------|------------|------------|
|                              |                                       |  | -50<br>(-58)                                   | -30<br>(-22) | -20<br>(-4) | -10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(68) |
| Engine oil pan               | Engine oil                            | 45.4 (12)  | ★SAE 5W-40                                     |              |             |             |           |            |            |
|                              |                                       |  | SAE 30   |              |             |             |           |            |            |
|                              |                                       |  | SAE 10W  |              |             |             |           |            |            |
|                              |                                       |  | SAE 10W-30                                     |              |             |             |           |            |            |
|                              |                                       |  | SAE 15W-40                                     |              |             |             |           |            |            |
| Swing drive                  | Gear oil                              | 8.0×2<br>(2.1×2)                                   | ★SAE 75W-90                                    |              |             |             |           |            |            |
| Final drive                  |                                       | 20×2<br>(5.3×2)                                    | SAE 80W-90                                     |              |             |             |           |            |            |
| Hydraulic tank               | Hydraulic oil                         | Tank :<br>450<br>(119)<br>System :<br>800<br>(210) | ★ISO VG 15                                     |              |             |             |           |            |            |
|                              |                                       |  | ISO VG 32                                      |              |             |             |           |            |            |
|                              |                                       |  | ISO VG 46                                      |              |             |             |           |            |            |
|                              |                                       |  | ISO VG 68                                      |              |             |             |           |            |            |
| Fuel tank                    | Diesel fuel                           | 940(248)   | ★ASTM D975 NO.1                                |              |             |             |           |            |            |
|                              |                                       |  | ASTM D975 NO.2                                 |              |             |             |           |            |            |
| Lower roller                 | Gear oil                              | 1.56 (0.4)   | ★SAE 75W-90                                    |              |             |             |           |            |            |
| Upper roller                 |                                       | 0.6 (0.15)   | SAE 85W-140                                    |              |             |             |           |            |            |
| Idler                        |                                       | 1.1 (0.3)  |  |              |             |             |           |            |            |
| Fitting<br>(grease nipple)   | Grease                                | As required  | ★NLGI NO.1                                     |              |             |             |           |            |            |
|                              |                                       |  | NLGI NO.2                                      |              |             |             |           |            |            |
| Radiator<br>(reservoir tank) | Mixture of<br>antifreeze<br>and water | 56 (15)  | Ethylene glycol base permanent type (50 : 50)  |              |             |             |           |            |            |
|                              |                                       |  | ★Ethylene glycol base permanent type (60 : 40) |              |             |             |           |            |            |

**SAE** : Society of Automotive Engineers

**API** : American Petroleum Institute

**ISO** : International Organization for Standardization

**NLGI** : National Lubricating Grease Institute

**ASTM** : American Society of Testing and Material

★ : Cold region

Russia, CIS, Mongolia