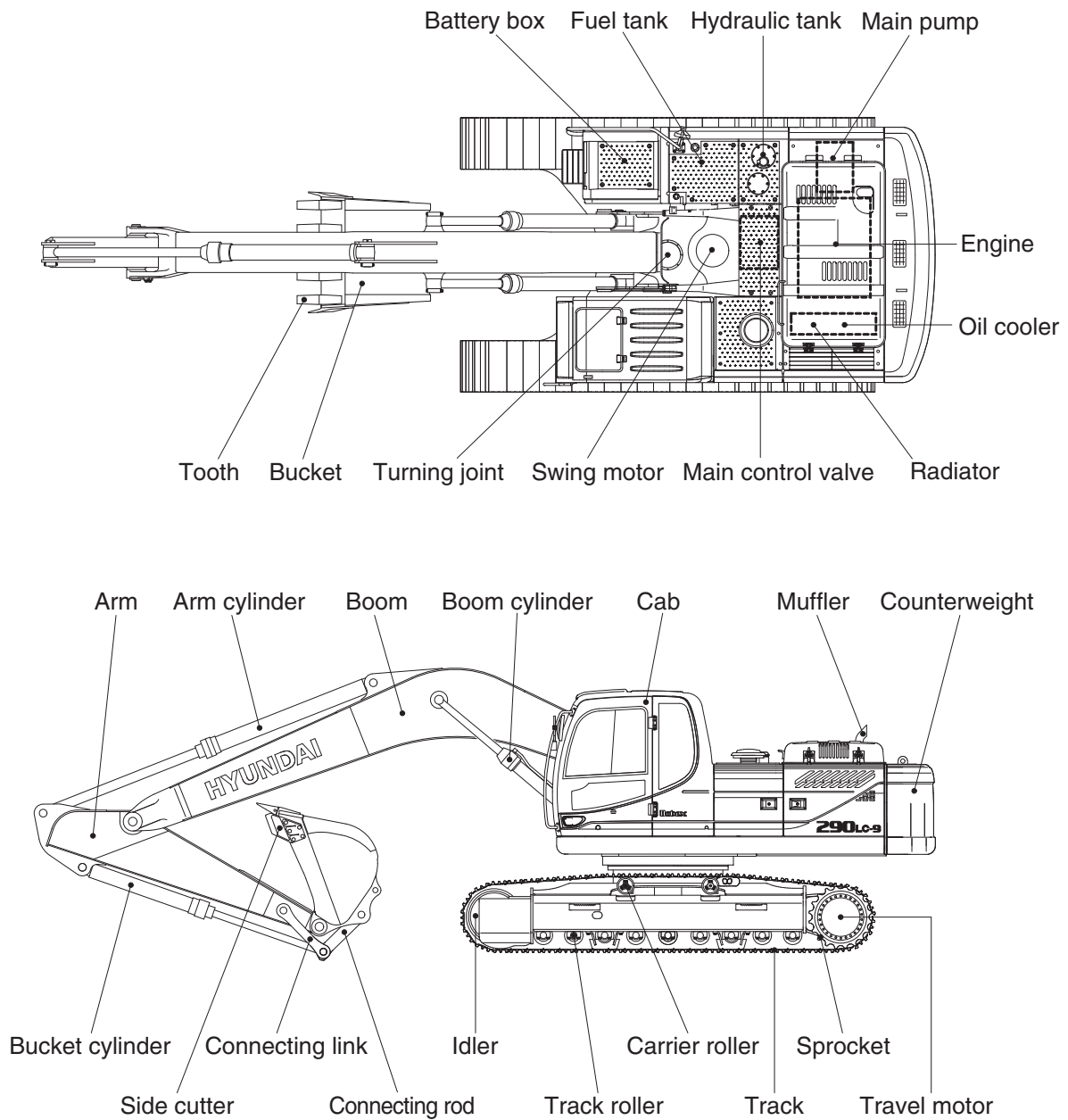


# SPECIFICATIONS

## 1. MAJOR COMPONENT

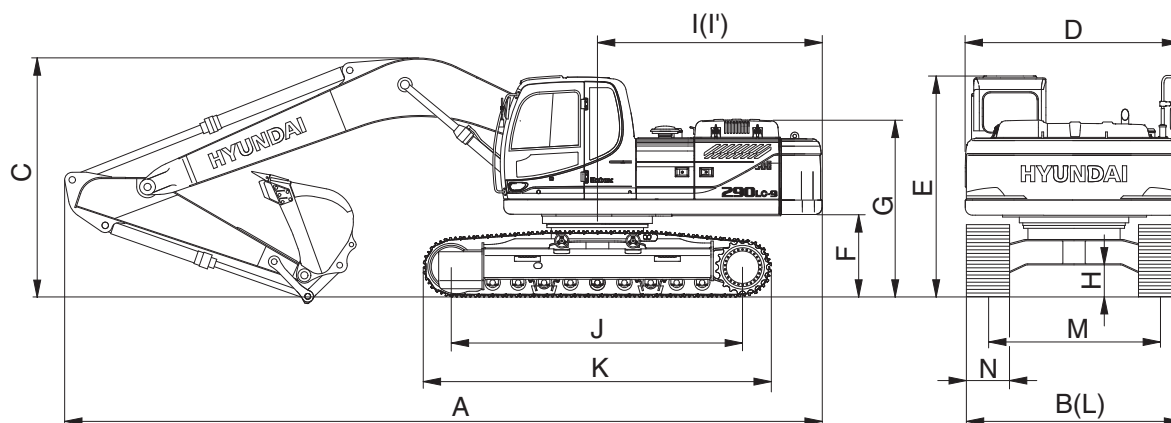


29092SP01A

## 2. SPECIFICATIONS

### 1) R290LC-9

· 6.25 m (20' 6") BOOM and 3.05 m (10' 0") ARM

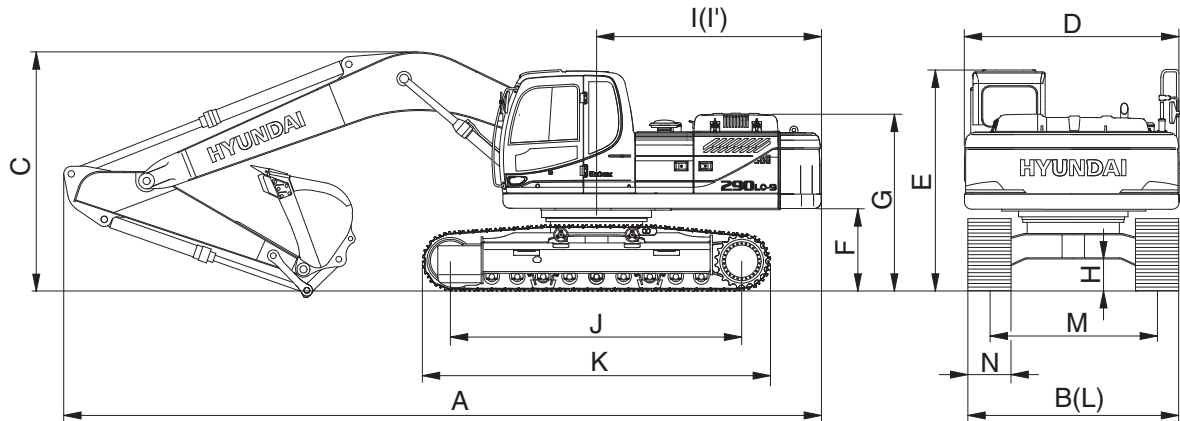


29092SP02

| Description                            |    | Unit                              | Specification     |
|----------------------------------------|----|-----------------------------------|-------------------|
| Operating weight                       |    | kg (lb)                           | 29700 (65480)     |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 1.27 (1.66)       |
| Overall length                         | A  | mm (ft-in)                        | 10560 (34' 8")    |
| Overall width, with 600mm shoe         | B  |                                   | 3200 (10' 6")     |
| Overall height                         | C  |                                   | 3290 (10' 10")    |
| Superstructure width                   | D  |                                   | 2980 ( 9' 9")     |
| Overall height of cab                  | E  |                                   | 3010 ( 9' 11")    |
| Ground clearance of counterweight      | F  |                                   | 1190 ( 3' 11")    |
| Engine cover height                    | G  |                                   | 3190 (10' 6")     |
| Minimum ground clearance               | H  |                                   | 500 ( 1' 8")      |
| Rear-end distance                      | I  |                                   | 3120 (10' 3")     |
| Rear-end swing radius                  | I' |                                   | 3200 (10' 6")     |
| Distance between tumblers              | J  |                                   | 4030 (13' 3")     |
| Undercarriage length                   | K  |                                   | 4940 (16' 2")     |
| Undercarriage width                    | L  |                                   | 3200 (10' 6")     |
| Track gauge                            | M  |                                   | 2600 ( 8' 6")     |
| Track shoe width, standard             | N  |                                   | 600 (24")         |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.5/5.0 (2.2/3.1) |
| Swing speed                            |    | rpm                               | 10.2              |
| Gradeability                           |    | Degree (%)                        | 35 (70)           |
| Ground pressure (600 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.57 (8.11)       |
| Max traction force                     |    | kg (lb)                           | 27300 (60200)     |

## 2) R290NLC-9

· 6.25 m (20' 6") BOOM and 3.05 m (10' 0") ARM

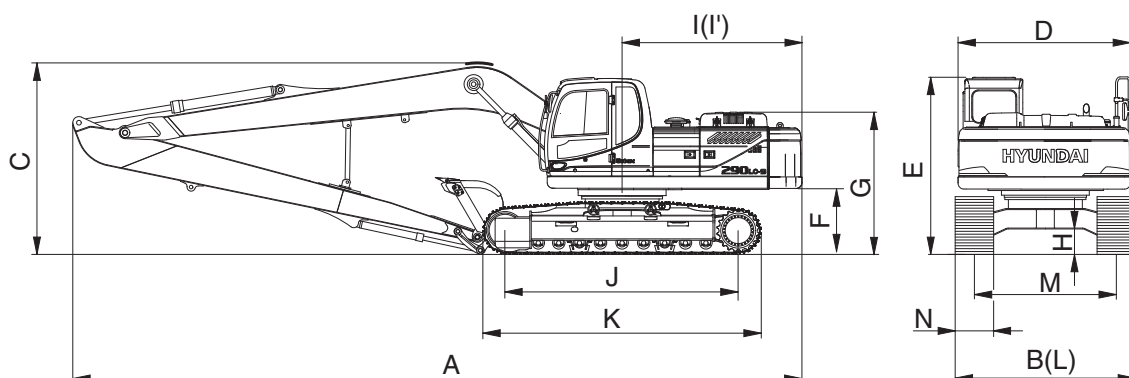


29092SP08

| Description                            |    | Unit                              | Specification     |
|----------------------------------------|----|-----------------------------------|-------------------|
| Operating weight                       |    | kg (lb)                           | 29100 (64150)     |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 1.27 (1.66)       |
| Overall length                         | A  | mm (ft-in)                        | 10560 (34' 8")    |
| Overall width, with 600mm shoe         | B  |                                   | 2990 ( 9' 10")    |
| Overall height                         | C  |                                   | 3290 (10' 10")    |
| Superstructure width                   | D  |                                   | 2980 ( 9' 9")     |
| Overall height of cab                  | E  |                                   | 3010 ( 9' 11")    |
| Ground clearance of counterweight      | F  |                                   | 1190 ( 3' 11")    |
| Engine cover height                    | G  |                                   | 3190 (10' 6")     |
| Minimum ground clearance               | H  |                                   | 500 ( 1' 8")      |
| Rear-end distance                      | I  |                                   | 3120 (10' 3")     |
| Rear-end swing radius                  | I' |                                   | 3200 (10' 6")     |
| Distance between tumblers              | J  |                                   | 4030 (13' 3")     |
| Undercarriage length                   | K  |                                   | 4940 (16' 2")     |
| Undercarriage width                    | L  |                                   | 2990 ( 9' 10")    |
| Track gauge                            | M  |                                   | 2390 ( 7' 10")    |
| Track shoe width, standard             | N  |                                   | 600 (24")         |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.1/5.2 (1.9/3.2) |
| Swing speed                            |    | rpm                               | 10.2              |
| Gradeability                           |    | Degree (%)                        | 35 (70)           |
| Ground pressure (600 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.55 (7.82)       |
| Max traction force                     |    | kg (lb)                           | 27300 (60200)     |

### 3) R290LC-9 LONG REACH

- 10.2 m (33' 6") BOOM and 7.85 m (25' 9") ARM

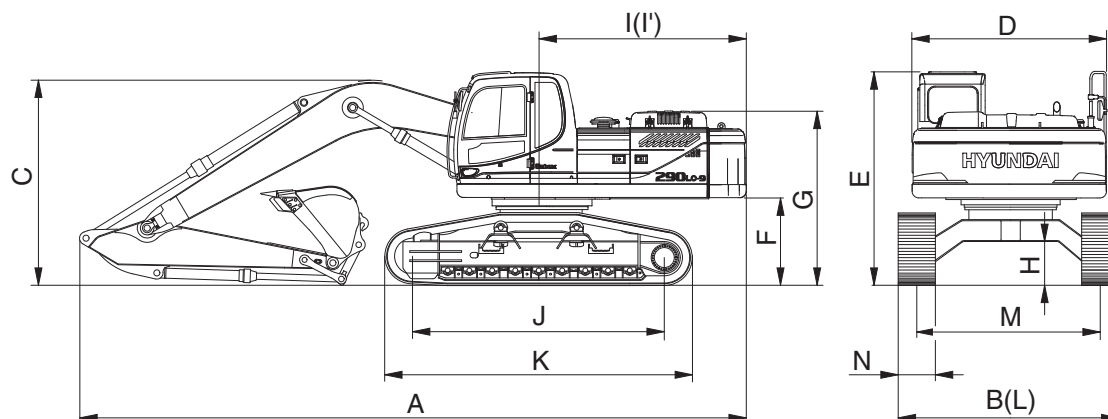


29092SP03

| Description                            |    | Unit                              | Specification     |
|----------------------------------------|----|-----------------------------------|-------------------|
| Operating weight                       |    | kg (lb)                           | 32690 (72630)     |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 0.52 (0.68)       |
| Overall length                         | A  | mm (ft-in)                        | 14550 (47' 9")    |
| Overall width, with 800 mm shoe        | B  |                                   | 3400 (11' 2")     |
| Overall height                         | C  |                                   | 3550 (11' 8")     |
| Superstructure width                   | D  |                                   | 2980 (9' 9")      |
| Overall height of cab                  | E  |                                   | 3010 (9' 11")     |
| Ground clearance of counterweight      | F  |                                   | 1190 (3' 11")     |
| Engine cover height                    | G  |                                   | 3190 (10' 6")     |
| Minimum ground clearance               | H  |                                   | 500 (1' 8")       |
| Rear-end distance                      | I  |                                   | 3120 (10' 3")     |
| Rear-end swing radius                  | I' |                                   | 3200 (10' 6")     |
| Distance between tumblers              | J  |                                   | 4030 (13' 3")     |
| Undercarriage length                   | K  |                                   | 4940 (16' 2")     |
| Undercarriage width                    | L  |                                   | 3400 (11' 2")     |
| Track gauge                            | M  |                                   | 2600 (8' 6")      |
| Track shoe width, standard             | N  |                                   | 800 (31' 5")      |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.1/5.2 (1.9/3.2) |
| Swing speed                            |    | rpm                               | 10.2              |
| Gradeability                           |    | Degree (%)                        | 35 (70)           |
| Ground pressure (800 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.47 (6.68)       |
| Max traction force                     |    | kg (lb)                           | 27300 (60200)     |

#### 4) R290LC-9 HIGH WALKER

- 6.25 m (20' 6") BOOM and 3.05 m (10' 0") ARM



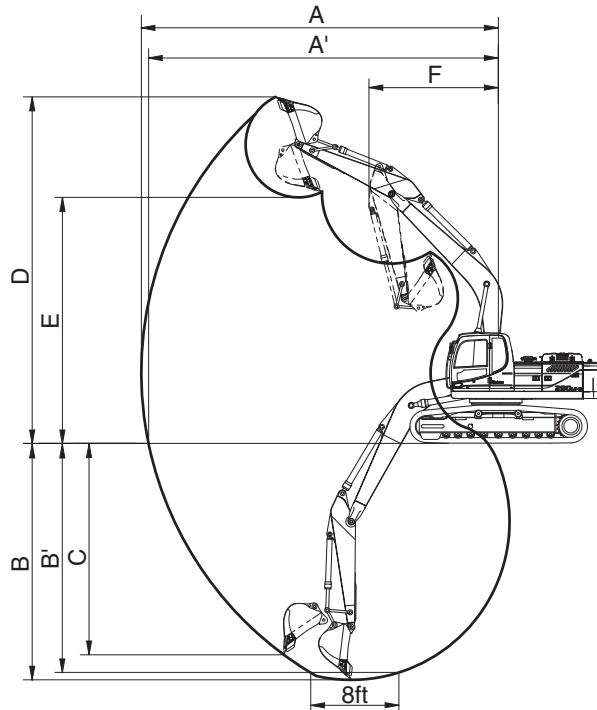
29092SP04

| Description                            |    | Unit                              | Specification     |
|----------------------------------------|----|-----------------------------------|-------------------|
| Operating weight                       |    | kg (lb)                           | 32140 (70860)     |
| Bucket capacity (SAE heaped), standard |    | m <sup>3</sup> (yd <sup>3</sup> ) | 1.27 (1.66)       |
| Overall length                         | A  | mm (ft-in)                        | 10430 ( 34' 3")   |
| Overall width, with 600 mm shoe        | B  |                                   | 3470 ( 11' 5")    |
| Overall height                         | C  |                                   | 3350 ( 11' 0")    |
| Superstructure width                   | D  |                                   | 2980 ( 9' 9")     |
| Overall height of cab                  | E  |                                   | 3380 ( 11' 1")    |
| Ground clearance of counterweight      | F  |                                   | 1500 ( 4' 11")    |
| Engine cover height                    | G  |                                   | 3500 (11' 6")     |
| Minimum ground clearance               | H  |                                   | 765 ( 2' 6")      |
| Rear-end distance                      | I  |                                   | 3120 (10' 3")     |
| Rear-end swing radius                  | I' |                                   | 3200 (10' 6")     |
| Distance between tumblers              | J  |                                   | 4030 (13' 3")     |
| Undercarriage length                   | K  |                                   | 4950 (16' 3")     |
| Undercarriage width                    | L  |                                   | 3470 (11' 5")     |
| Track gauge                            | M  |                                   | 2870 ( 9' 5")     |
| Track shoe width, standard             | N  |                                   | 600 (23' 6")      |
| Travel speed (low/high)                |    | km/hr (mph)                       | 3.1/5.2 (1.9/3.2) |
| Swing speed                            |    | rpm                               | 10.2              |
| Gradeability                           |    | Degree (%)                        | 35 (70)           |
| Ground pressure (600 mm shoe)          |    | kgf/cm <sup>2</sup> (psi)         | 0.62 (8.82)       |
| Max traction force                     |    | kg (lb)                           | 27300 (60200)     |

### 3. WORKING RANGE

#### 1) R290LC-9, R290NLC-9

· 6.25 m (20' 6") BOOM

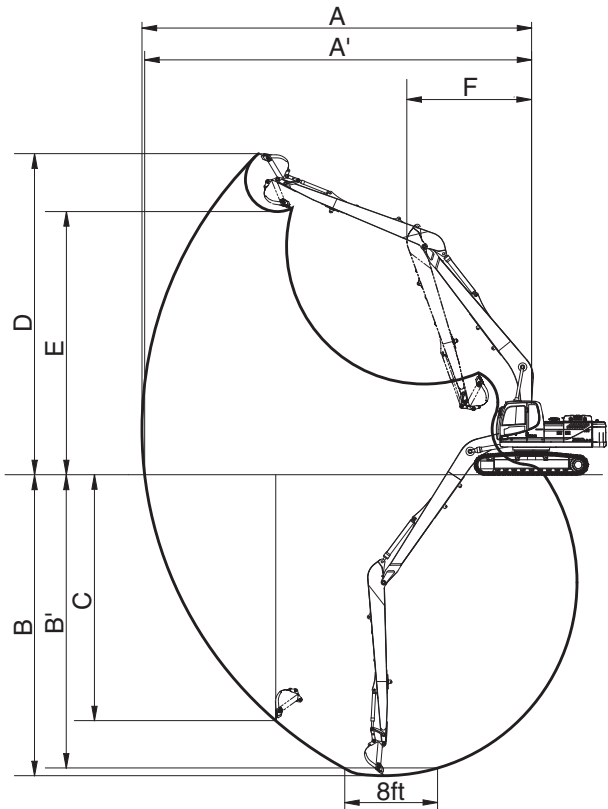


29092SP05

| Description                     |     | 2.10m (6' 11") Arm | 2.50 m (8' 2") Arm | 3.05 m (10' 0") Arm | 3.75 m (12' 4") Arm |
|---------------------------------|-----|--------------------|--------------------|---------------------|---------------------|
| Max digging reach               | A   | 10020 mm (32' 10") | 10280 mm (33' 7")  | 10820 mm (35' 6")   | 11400 mm (37' 5")   |
| Max digging reach on ground     | A'  | 9820 mm (32' 3")   | 10080 mm (33' 1")  | 10620 mm (34' 10")  | 11220 mm (36' 10")  |
| Max digging depth               | B   | 6440 mm (21' 1")   | 6840 mm (22' 5")   | 7390 mm (24' 3")    | 8090 mm (26' 7")    |
| Max digging depth (8 ft level)  | B'  | 6240 mm (20' 6")   | 6630 mm (21' 9")   | 7300 mm (23' 11")   | 7920 mm (26' 0")    |
| Max vertical wall digging depth | C   | 6000 mm (19' 8")   | 5850 mm (19' 2")   | 6380 mm (20' 11")   | 7080 mm (23' 3")    |
| Max digging height              | D   | 10070 mm (33' 0")  | 10110 mm (33' 2")  | 10160 mm (33' 4")   | 10360 mm (34' 0")   |
| Max dumping height              | E   | 6940 mm (22' 9")   | 7030 mm (23' 1")   | 7110 mm (23' 4")    | 7310 mm (24' 0")    |
| Min swing radius                | F   | 4380 mm (14' 4")   | 4260 mm (14' 0")   | 4230 mm (13' 11")   | 4140 mm (13' 7")    |
| Bucket digging force            | SAE | 166.7 [183.1] kN   | 166.7 [183.1] kN   | 166.7 [183.1] kN    | 166.7 [183.1] kN    |
|                                 |     | 17000 [18670] kgf  | 17000 [18670] kgf  | 17200 [18670] kgf   | 17000 [18670] kgf   |
|                                 |     | 37480 [41170] lbf  | 37480 [41170] lbf  | 37920 [41170] lbf   | 37480 [41170] lbf   |
|                                 | ISO | 189.3 [208.7] kN   | 189.3 [208.7] kN   | 189.3 [208.7] kN    | 189.3 [208.7] kN    |
|                                 |     | 19300 [21280] kgf  | 19300 [21280] kgf  | 19300 [21280] kgf   | 19300 [21280] kgf   |
|                                 |     | 42550 [46910] lbf  | 42550 [46910] lbf  | 42550 [46910] lbf   | 42550 [46910] lbf   |
| Arm digging force               | SAE | 180.4 [195.9] kN   | 156.9 [170.4] kN   | 131.4 [142.7] kN    | 114.7 [124.6] kN    |
|                                 |     | 18400 [19980] kgf  | 16000 [17370] kgf  | 13400 [14550] kgf   | 11700 [12700] kgf   |
|                                 |     | 40570 [44050] lbf  | 35270 [38290] lbf  | 29540 [32070] lbf   | 25790 [28000] lbf   |
|                                 | ISO | 190.3 [206.6] kN   | 163.8 [177.8] kN   | 136.3 [148] kN      | 119.6 [129.9] kN    |
|                                 |     | 19400 [21060] kgf  | 16700 [18130] kgf  | 13900 [15090] kgf   | 12200 [13250] kgf   |
|                                 |     | 42770 [46440] lbf  | 36820 [39980] lbf  | 30640 [33270] lbf   | 26900 [29210] lbf   |

[ ] : Power boost

2) R290LC-9 LONG REACH  
 • 10.2 m (33' 6") BOOM

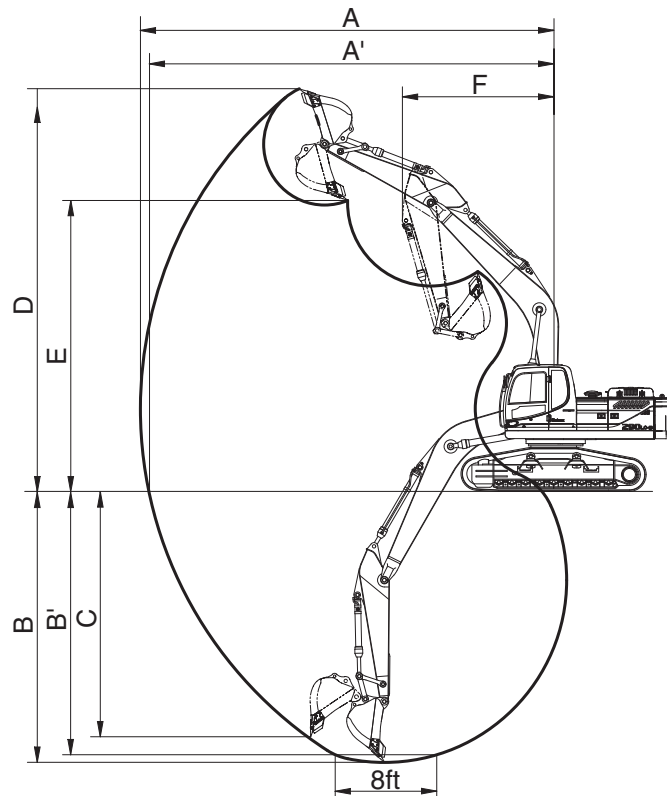


29092SP06

| Description                     |     | 7.85 m (25' 9") Arm |
|---------------------------------|-----|---------------------|
| Max digging reach               | A   | 18510 (60' 9")      |
| Max digging reach on ground     | A'  | 18400 (60' 4")      |
| Max digging depth               | B   | 14820 (48' 7")      |
| Max digging depth (8 ft level)  | B'  | 14690 (48' 2")      |
| Max vertical wall digging depth | C   | 12020 (39' 5")      |
| Max digging height              | D   | 14500 (47' 7")      |
| Max dumping height              | E   | 12190 (40' 0")      |
| Min swing radius                | F   | 6250 (20' 6")       |
| Bucket digging force            | SAE | 70 kN               |
|                                 |     | 7100 kgf            |
|                                 |     | 15650 lbf           |
|                                 | ISO | 80 kN               |
|                                 |     | 8200 kgf            |
|                                 |     | 18080 lbf           |
| Arm crowd force                 | SAE | 47.1 kN             |
|                                 |     | 4800 kgf            |
|                                 |     | 10580 lbf           |
|                                 | ISO | 48.1 kN             |
|                                 |     | 4900 kgf            |
|                                 |     | 10800 lbf           |

### 3) R290LC-9 HIGH WALKER

• 6.25 m (20' 6") BOOM



29092SP07

| Description                     |     | 2.10m (6' 11") Arm | 2.50 m (8' 2") Arm | 3.05 m (10' 0") Arm | 3.75 m (12' 4") Arm |
|---------------------------------|-----|--------------------|--------------------|---------------------|---------------------|
| Max digging reach               | A   | 10020 mm (32' 10") | 10280 mm (33' 7")  | 10790 mm (35' 5")   | 11400 mm (37' 5")   |
| Max digging reach on ground     | A'  | 9750 mm (32' 0")   | 10020 mm (32' 10") | 10530 mm (34' 7")   | 11160 mm (36' 7")   |
| Max digging depth               | B   | 6140 mm (20' 2")   | 6540 mm (21' 5")   | 7090 mm (23' 3")    | 7790 mm (25' 7")    |
| Max digging depth (8 ft level)  | B'  | 5930 mm (19' 5")   | 6330 mm (20' 9")   | 6910 mm (22' 8")    | 7630 mm (25' 0")    |
| Max vertical wall digging depth | C   | 5700 mm (18' 8")   | 5560 mm (18' 3")   | 6090 mm (20' 0")    | 6790 mm (22' 3")    |
| Max digging height              | D   | 10370 mm (34' 0")  | 10220 mm (33' 6")  | 10440 mm (34' 3")   | 10660 mm (35' 0")   |
| Max dumping height              | E   | 7240 mm (23' 9")   | 7170 mm (23' 6")   | 7400 mm (24' 3")    | 7610 mm (25' 0")    |
| Min swing radius                | F   | 4380 mm (14' 4")   | 4260 mm (14' 0")   | 4230 mm (13' 11")   | 4140 mm (13' 7")    |
| Bucket digging force            | SAE | 166.7 [183.1] kN   | 166.7 [183.1] kN   | 166.7 [183.1] kN    | 166.7 [183.1] kN    |
|                                 |     | 17000 [18670] kgf  | 17000 [18670] kgf  | 17000 [18670] kgf   | 17000 [18670] kgf   |
|                                 |     | 37480 [41170] lbf  | 37480 [41170] lbf  | 37480 [41170] lbf   | 37480 [41170] lbf   |
|                                 | ISO | 189.3 [208.7] kN   | 189.3 [208.7] kN   | 189.3 [208.7] kN    | 189.3 [208.7] kN    |
|                                 |     | 19300 [21280] kgf  | 19300 [21280] kgf  | 19300 [21280] kgf   | 19300 [21280] kgf   |
|                                 |     | 42550 [46910] lbf  | 42550 [46910] lbf  | 42550 [46910] lbf   | 42550 [46910] lbf   |
| Arm digging force               | SAE | 180.4 [195.9] kN   | 156.9 [170.4] kN   | 131.4 [142.7] kN    | 114.7 [124.6] kN    |
|                                 |     | 18400 [19980] kgf  | 16000 [17370] kgf  | 13400 [14550] kgf   | 11700 [12700] kgf   |
|                                 |     | 40570 [44050] lbf  | 35270 [38290] lbf  | 29540 [32070] lbf   | 25790 [28000] lbf   |
|                                 | ISO | 190.3 [206.6] kN   | 163.8 [177.8] kN   | 136.3 [148] kN      | 119.6 [129.9] kN    |
|                                 |     | 19400 [21060] kgf  | 16700 [18130] kgf  | 13900 [15090] kgf   | 12200 [13250] kgf   |
|                                 |     | 42770 [46440] lbf  | 36820 [39980] lbf  | 30640 [33270] lbf   | 26900 [29210] lbf   |

[ ] : Power boost



## 4. WEIGHT

### 1) R290LC-9, R290NLC-9

| Item                                                                              | R290LC-9 |       | R290NLC-9 |       |
|-----------------------------------------------------------------------------------|----------|-------|-----------|-------|
|                                                                                   | kg       | lb    | kg        | lb    |
| Upperstructure assembly                                                           | 12610    | 27800 | ←         | ←     |
| Main frame weld assembly                                                          | 2670     | 5890  | ←         | ←     |
| Engine assembly                                                                   | 556      | 1230  | ←         | ←     |
| Main pump assembly                                                                | 140      | 310   | ←         | ←     |
| Main control valve assembly                                                       | 220      | 490   | ←         | ←     |
| Swing motor assembly                                                              | 390      | 860   | ←         | ←     |
| Hydraulic oil tank assembly                                                       | 250      | 560   | ←         | ←     |
| Fuel tank assembly                                                                | 240      | 530   | ←         | ←     |
| Counterweight                                                                     | 5200     | 11460 | ←         | ←     |
| Cab assembly                                                                      | 490      | 1080  | ←         | ←     |
| Lower chassis assembly                                                            | 10740    | 23680 | 10600     | 23370 |
| Track frame weld assembly                                                         | 3765     | 8300  | 3625      | 7990  |
| Swing bearing                                                                     | 430      | 950   | ←         | ←     |
| Travel motor assembly                                                             | 400      | 880   | ←         | ←     |
| Turning joint                                                                     | 54       | 120   | ←         | ←     |
| Track recoil spring                                                               | 205      | 450   | ←         | ←     |
| Idler                                                                             | 252      | 560   | ←         | ←     |
| Carrier roller                                                                    | 35       | 80    | ←         | ←     |
| Track roller                                                                      | 54       | 119   | ←         | ←     |
| Track-chain assembly<br>(600 mm standard triple grouser shoe)                     | 1860     | 4110  | ←         | ←     |
| Front attachment assembly (6.25 m boom,<br>3.05 m arm, 1.27 m³ SAE heaped bucket) | 5550     | 12240 | ←         | ←     |
| 6.25 m boom assembly                                                              | 2285     | 5040  | ←         | ←     |
| 3.05 m arm assembly                                                               | 1025     | 2260  | ←         | ←     |
| 1.27 m³ SAE heaped bucket                                                         | 1010     | 2230  | ←         | ←     |
| Boom cylinder assembly                                                            | 270      | 600   | ←         | ←     |
| Arm cylinder assembly                                                             | 360      | 790   | ←         | ←     |
| Bucket cylinder assembly                                                          | 220      | 485   | ←         | ←     |
| Bucket control link assembly                                                      | 110      | 240   | ←         | ←     |

## 2) R290LC-9 LONG REACH

| Item                                                                           | R290LC-9 LONG REACH |       |
|--------------------------------------------------------------------------------|---------------------|-------|
|                                                                                | kg                  | lb    |
| Upperstructure assembly                                                        | 14410               | 31810 |
| Main frame weld assembly                                                       | 2670                | 5890  |
| Engine assembly                                                                | 556                 | 1230  |
| Main pump assembly                                                             | 140                 | 310   |
| Main control valve assembly                                                    | 220                 | 490   |
| Swing motor assembly                                                           | 390                 | 860   |
| Hydraulic oil tank assembly                                                    | 250                 | 560   |
| Fuel tank assembly                                                             | 240                 | 530   |
| Counterweight                                                                  | 7000                | 15450 |
| Cab assembly                                                                   | 490                 | 1080  |
| Lower chassis assembly                                                         | 10900               | 24030 |
| Track frame weld assembly                                                      | 3765                | 8300  |
| Swing bearing                                                                  | 430                 | 950   |
| Travel motor assembly                                                          | 400                 | 880   |
| Turning joint                                                                  | 54                  | 120   |
| Track recoil spring                                                            | 205                 | 450   |
| Idler                                                                          | 252                 | 560   |
| Carrier roller                                                                 | 35                  | 80    |
| Track roller                                                                   | 54                  | 119   |
| Track-chain assembly (800 mm standard triple grouser shoe)                     | 2340                | 5160  |
| Front attachment assembly (10.2 m boom, 7.85 m arm, 0.51 m³ SAE heaped bucket) | 5920                | 13050 |
| 10.2 m boom assembly                                                           | 2960                | 6530  |
| 7.85 m arm assembly                                                            | 1340                | 2960  |
| 0.51 m³ SAE heaped bucket                                                      | 460                 | 1010  |
| Boom cylinder assembly                                                         | 270                 | 600   |
| Arm cylinder assembly                                                          | 360                 | 790   |
| Bucket cylinder assembly                                                       | 96                  | 212   |
| Bucket control link assembly                                                   | 110                 | 240   |

### 3) R290LC-9 HIGH WALKER

| Item                                                                           | R290LC-9 HIGH WAKER |       |
|--------------------------------------------------------------------------------|---------------------|-------|
|                                                                                | kg                  | lb    |
| Upperstructure assembly                                                        | 12610               | 27800 |
| Main frame weld assembly                                                       | 2670                | 5890  |
| Engine assembly                                                                | 556                 | 1230  |
| Main pump assembly                                                             | 155                 | 340   |
| Main control valve assembly                                                    | 220                 | 490   |
| Swing motor assembly                                                           | 390                 | 860   |
| Hydraulic oil tank assembly                                                    | 250                 | 560   |
| Fuel tank assembly                                                             | 240                 | 530   |
| Counterweight                                                                  | 5200                | 11460 |
| Cab assembly                                                                   | 490                 | 1080  |
| Lower chassis assembly                                                         | 12800               | 28220 |
| Track frame weld assembly                                                      | 5825                | 12840 |
| Swing bearing                                                                  | 430                 | 950   |
| Travel motor assembly                                                          | 400                 | 880   |
| Turning joint                                                                  | 54                  | 120   |
| Track recoil spring                                                            | 205                 | 450   |
| Idler                                                                          | 252                 | 560   |
| Carrier roller                                                                 | 35                  | 80    |
| Track roller                                                                   | 54                  | 119   |
| Track-chain assembly (600 mm standard triple grouser shoe)                     | 1860                | 4110  |
| Front attachment assembly (6.25 m boom, 3.05 m arm, 1.27 m³ SAE heaped bucket) | 5550                | 12240 |
| 6.25 m boom assembly                                                           | 2285                | 5040  |
| 3.05 m arm assembly                                                            | 1025                | 2260  |
| 1.27 m³ SAE heaped bucket                                                      | 1010                | 2230  |
| Boom cylinder assembly                                                         | 270                 | 600   |
| Arm cylinder assembly                                                          | 360                 | 790   |
| Bucket cylinder assembly                                                       | 220                 | 485   |
| Bucket control link assembly                                                   | 110                 | 240   |

## 5. LIFTING CAPACITIES

### 1) R290LC-9

(1) 6.25 m (20' 6") boom, 2.10 m (6' 11") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

-  : Rating over-front
-  : Rating over-side or 360 degree

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                   |          | 3.0 m (10 ft)                                                                     |                                                                                   | 4.5 m (15 ft)                                                                     |                                                                                   | 6.0 m (20 ft)                                                                     |                                                                                   | 7.5 m (25 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                   |          |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5760<br>*12700                                                                   | *5760<br>*12700                                                                   |                                                                                   |                                                                                     | *5290<br>*11660                                                                     | 4580<br>10100                                                                       | 8.01<br>(26.3) |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *6090<br>*13430                                                                   | *6090<br>*13430                                                                   | *5900<br>*13010                                                                   | 4950<br>10910                                                                       | *5380<br>*11860                                                                     | 3670<br>8090                                                                        | 8.90<br>(29.2) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   | *8940<br>*19710                                                                   | *8940<br>*19710                                                                   | *7040<br>*15520                                                                   | *7040<br>*15520                                                                   | *6210<br>*13690                                                                   | 4820<br>10630                                                                       | 5270<br>11620                                                                       | 3200<br>7050                                                                        | 9.42<br>(30.9) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   | *11660<br>*25710                                                                  | 10180<br>22440                                                                    | *8270<br>*18230                                                                   | 6600<br>14550                                                                     | *6800<br>*14990                                                                   | 4610<br>10160                                                                       | 4990<br>11000                                                                       | 2990<br>6590                                                                        | 9.64<br>(31.6) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   | *13520<br>*29810                                                                  | 9490<br>20920                                                                     | *9370<br>*20660                                                                   | 6210<br>13690                                                                     | 7330<br>16160                                                                     | 4400<br>9700                                                                        | 4980<br>10980                                                                       | 2970<br>6550                                                                        | 9.58<br>(31.4) |
| Ground Line       | kg<br>lb |                                                                                   |                                                                                   | *14060<br>*31000                                                                  | 9290<br>20480                                                                     | *10020<br>*22090                                                                  | 5980<br>13180                                                                     | 7180<br>15830                                                                     | 4270<br>9410                                                                        | 5260<br>11600                                                                       | 3140<br>6920                                                                        | 9.23<br>(30.3) |
| -1.5 m (-5 ft)    | kg<br>lb | *13470<br>*29700                                                                  | *13470<br>*29700                                                                  | *13770<br>*30360                                                                  | 9310<br>20530                                                                     | *10110<br>*22290                                                                  | 5920<br>13050                                                                     | 7150<br>15760                                                                     | 4240<br>9350                                                                        | 5970<br>13160                                                                       | 3590<br>7910                                                                        | 8.57<br>(28.1) |
| -3.0 m (-10 ft)   | kg<br>lb | *17570<br>*38740                                                                  | *17570<br>*38740                                                                  | *12710<br>*28020                                                                  | 9480<br>20900                                                                     | *9440<br>*20810                                                                   | 6020<br>13270                                                                     |                                                                                   |                                                                                     | *6180<br>*13620                                                                     | 4610<br>10160                                                                       | 7.47<br>(24.5) |
| -4.5 m (-15 ft)   | kg<br>lb | *14150<br>*31200                                                                  | *14150<br>*31200                                                                  | *10330<br>*22770                                                                  | 9880<br>21780                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                |

- 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) 6.25 m (20' 6") boom, 2.50 m (8' 2") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                   |          | 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)                                                                      |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | *4880<br>*10760                                                                     | 4330<br>9550                                                                        | 8.34<br>(27.4) |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5470<br>*12060                                                                    | 5060<br>11160                                                                       | *5020<br>*11070                                                                     | 3510<br>7740                                                                        | 9.19<br>(30.2) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *8180<br>18030                                                                    | *8180<br>*18030                                                                   | *6610<br>*14570                                                                   | *6610<br>*14570                                                                   | *5880<br>*12960                                                                    | 4900<br>10800                                                                       | 5070<br>11180                                                                       | 3080<br>6790                                                                        | 9.69<br>(31.8) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *10910<br>*24050                                                                  | 10440<br>23020                                                                    | *7890<br>*17390                                                                   | 6700<br>14770                                                                     | *6530<br>*14400                                                                    | 4660<br>10270                                                                       | 4790<br>10560                                                                       | 2870<br>6330                                                                        | 9.90<br>(32.5) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *13040<br>*28750                                                                  | 9630<br>21230                                                                     | *9080<br>*20020                                                                   | 6270<br>13820                                                                     | *7190<br>*15850                                                                    | 4430<br>9770                                                                        | 4770<br>10520                                                                       | 2840<br>6260                                                                        | 9.84<br>(32.3) |
| Ground Line       | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *13950<br>*30750                                                                  | 9310<br>20530                                                                     | 9870<br>*21760                                                                    | 6000<br>13230                                                                     | 7180<br>15830                                                                      | 4270<br>9410                                                                        | 5000<br>11020                                                                       | 2980<br>6570                                                                        | 9.51<br>(31.2) |
| -1.5 m (-5 ft)    | kg<br>lb |                                                                                   |                                                                                   | *14370<br>*31680                                                                  | *14370<br>*31680                                                                  | *13930<br>*30710                                                                  | 9260<br>20410                                                                     | *10120<br>*22310                                                                  | 5900<br>13010                                                                     | 7110<br>15670                                                                      | 4210<br>9280                                                                        | 5610<br>12370                                                                       | 3360<br>7410                                                                        | 8.87<br>(29.1) |
| -3.0 m (-10 ft)   | kg<br>lb | *16270<br>*35870                                                                  | *16270<br>*35870                                                                  | *18700<br>*41230                                                                  | *18700<br>*41230                                                                  | *13110<br>*28900                                                                  | 9390<br>20700                                                                     | *9690<br>*21360                                                                   | 5950<br>13120                                                                     |                                                                                    |                                                                                     | *6310<br>*13910                                                                     | 4210<br>9280                                                                        | 7.82<br>(25.7) |
| -4.5 m (-15 ft)   | kg<br>lb |                                                                                   |                                                                                   | *15620<br>*34440                                                                  | *15620<br>*34440                                                                  | *11170<br>*24630                                                                  | 9720<br>21430                                                                     |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                |

(3) 6.25 m (20' 6") boom, 3.05 m (10' 0") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       | At max. reach                                                                         |                                                                                       |                 |
|-------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|
|                   |          | 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)                                                                       |                                                                                     | 9.0 m (30 ft)                                                                        |                                                                                       | Capacity                                                                              |                                                                                       | Reach           |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)          |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       | *4780<br>*10540                                                                       | 3850<br>8490                                                                          | 8.94<br>(29.3)  |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *5270<br>*11620                                                                     | 5190<br>11440                                                                       |                                                                                      |                                                                                       | *4940<br>*10890                                                                       | 3170<br>6990                                                                          | 9.74<br>(32.0)  |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *6380<br>*14070                                                                     | *6380<br>*14070                                                                     | *5780<br>*12740                                                                     | 4980<br>10980                                                                       |                                                                                      |                                                                                       | 4660<br>10270                                                                         | 2790<br>6150                                                                          | 10.20<br>(33.5) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                     |                                                                                     | *10490<br>*23130                                                                    | *10490<br>*23130                                                                    | *10510<br>*23170                                                                    | *10510<br>*23170                                                                    | *7800<br>*17200                                                                     | 6830<br>15060                                                                       | *6530<br>*14400                                                                     | 4710<br>10380                                                                       | *4420<br>*9740                                                                       | 3380<br>7450                                                                          | 4410<br>9720                                                                          | 2600<br>5730                                                                          | 10.40<br>(34.1) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *13100<br>*28880                                                                    | 9840<br>21690                                                                       | *9190<br>*20260                                                                     | 6340<br>13980                                                                       | *7320<br>*16140                                                                     | 4440<br>9790                                                                        | *5230<br>*11530                                                                      | 3240<br>7140                                                                          | 4380<br>9660                                                                          | 2560<br>5640                                                                          | 10.35<br>(34.0) |
| Ground Line       | kg<br>lb |                                                                                     |                                                                                     | *10140<br>*22350                                                                    | *10140<br>*22350                                                                    | *14530<br>*32030                                                                    | 9340<br>20590                                                                       | *10220<br>*22530                                                                    | 6000<br>13230                                                                       | 7190<br>15850                                                                       | 4240<br>9350                                                                        | *4600<br>*10140                                                                      | 3140<br>6920                                                                          | 4560<br>10050                                                                         | 2660<br>5860                                                                          | 10.04<br>(32.9) |
| -1.5 m (-5 ft)    | kg<br>lb | *10990<br>*24230                                                                    | *10990<br>*24230                                                                    | *14250<br>*31420                                                                    | *14250<br>*31420                                                                    | *14890<br>*32830                                                                    | 9180<br>20240                                                                       | 10140<br>22350                                                                      | 5830<br>12850                                                                       | 7070<br>15590                                                                       | 4130<br>9110                                                                        |                                                                                      |                                                                                       | 5050<br>11130                                                                         | 2960<br>6530                                                                          | 9.44<br>(31.0)  |
| -3.0 m (-10 ft)   | kg<br>lb | *14880<br>*32800                                                                    | *14880<br>*32800                                                                    | *19250<br>*42440                                                                    | *19250<br>*42440                                                                    | *14380<br>*31700                                                                    | 9240<br>20370                                                                       | 10130<br>22330                                                                      | 5830<br>12850                                                                       | 7090<br>15630                                                                       | 4150<br>9150                                                                        |                                                                                      |                                                                                       | 6060<br>13360                                                                         | 3610<br>7960                                                                          | 8.48<br>(27.8)  |
| -4.5 m (-15 ft)   | kg<br>lb | *19470<br>*42920                                                                    | *19470<br>*42920                                                                    | *18400<br>*40570                                                                    | *18400<br>*40570                                                                    | *12820<br>*28260                                                                    | 9500<br>20940                                                                       | *9370<br>*20660                                                                     | 6010<br>13250                                                                       |                                                                                     |                                                                                     |                                                                                      |                                                                                       | *6400<br>*14110                                                                       | 5150<br>11350                                                                         | 6.97<br>(22.9)  |

(4) 6.25 m (20' 6") boom, 3.75 m (12' 4") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                 |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
|                   |          | 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)                                                                     |                                                                                   | 9.0 m (30 ft)                                                                       |                                                                                     | Capacity                                                                            |                                                                                     | Reach           |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)          |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *3930<br>*8660                                                                      | 3310<br>7300                                                                        | 9.67<br>(31.7)  |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4160<br>*9170                                                                    | *4160<br>*9170                                                                    | *2370<br>*5220                                                                      | *2370<br>*5220                                                                      | *4090<br>*9020                                                                      | 2770<br>6110                                                                        | 10.40<br>(34.1) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4710<br>*10380                                                                   | *4710<br>*10380                                                                   | *3720<br>*8200                                                                      | 3550<br>7830                                                                        | 4160<br>9170                                                                        | 2460<br>5420                                                                        | 10.83<br>(35.5) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   | *13490<br>*29740                                                                  | *13490<br>*29740                                                                  | *8320<br>*18340                                                                   | *8320<br>*18340                                                                   | *6410<br>*14130                                                                   | *6410<br>*14130                                                                   | *5470<br>*12060                                                                   | 4760<br>10490                                                                     | *4740<br>*10450                                                                     | 3400<br>7500                                                                        | 3950<br>8710                                                                        | 2300<br>5070                                                                        | 11.02<br>(36.2) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   | *9980<br>*22000                                                                   | *9980<br>*22000                                                                   | *11050<br>*24360                                                                  | 10090<br>22240                                                                    | *7850<br>*17310                                                                   | 6420<br>14150                                                                     | *6300<br>*13890                                                                   | 4470<br>9850                                                                      | *5440<br>*11990                                                                     | 3240<br>7140                                                                        | 3920<br>8640                                                                        | 2260<br>4980                                                                        | 10.97<br>(36.0) |
| Ground Line       | kg<br>lb | *6470<br>*14260                                                                   | *6470<br>*14260                                                                   | *10300<br>*22710                                                                  | *10300<br>*22710                                                                  | *12890<br>*28420                                                                  | 9400<br>20720                                                                     | *9020<br>*19890                                                                   | 6010<br>13250                                                                     | *7030<br>*15500                                                                   | 4220<br>9300                                                                      | 5300<br>11680                                                                       | 3100<br>6830                                                                        | 4050<br>8930                                                                        | 2330<br>5140                                                                        | 10.68<br>(35.0) |
| -1.5 m (-5 ft)    | kg<br>lb | *9310<br>*20530                                                                   | *9310<br>*20530                                                                   | *12760<br>*28130                                                                  | *12760<br>*28130                                                                  | *13720<br>*30250                                                                  | 9090<br>20040                                                                     | *9730<br>*21450                                                                   | 5770<br>12720                                                                     | 6970<br>15370                                                                     | 4070<br>8970                                                                      | 5210<br>11490                                                                       | 3020<br>6660                                                                        | 4410<br>9720                                                                        | 2560<br>5640                                                                        | 10.12<br>(33.2) |
| -3.0 m (-10 ft)   | kg<br>lb | *12290<br>*27090                                                                  | *12290<br>*27090                                                                  | *16240<br>*35800                                                                  | *16240<br>*35800                                                                  | *13690<br>*30180                                                                  | 9040<br>19930                                                                     | *9880<br>*21780                                                                   | 5700<br>12570                                                                     | 6920<br>15260                                                                     | 4020<br>8360                                                                      |                                                                                     |                                                                                     | 5140<br>11330                                                                       | 3030<br>6680                                                                        | 9.25<br>(30.3)  |
| -4.5 m (-15 ft)   | kg<br>lb | *15740<br>*34700                                                                  | *15740<br>*34700                                                                  | *18940<br>*41760                                                                  | 18940<br>41760                                                                    | *12770<br>*28150                                                                  | 9190<br>20260                                                                     | *9310<br>*20530                                                                   | 5780<br>12740                                                                     |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *5780<br>*12740                                                                     | 4030<br>8880                                                                        | 7.92<br>(26.0)  |

## 2) R290NLC-9

(1) 6.25 m (20' 6") boom, 2.10 m (6' 11") arm equipped with 1.27 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

-  : Rating over-front
-  : Rating over-side or 360 degree

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                   |          | 3.0 m (10 ft)                                                                     |                                                                                   | 4.5 m (15 ft)                                                                     |                                                                                   | 6.0 m (20 ft)                                                                     |                                                                                   | 7.5 m (25 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                   |          |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5760<br>*12700                                                                   | *5760<br>*12700                                                                   |                                                                                   |                                                                                     | *5290<br>*11660                                                                     | 4140<br>9130                                                                        | 8.01<br>(26.3) |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *6090<br>*13430                                                                   | *6090<br>*13430                                                                   | *5900<br>*13010                                                                   | 4470<br>9850                                                                        | *5380<br>*11860                                                                     | 3300<br>7280                                                                        | 8.90<br>(29.2) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   | *8940<br>*19710                                                                   | *8940<br>*19710                                                                   | *7040<br>*15520                                                                   | 6390<br>14090                                                                     | *6210<br>*13690                                                                   | 4350<br>9590                                                                        | 5250<br>11570                                                                       | 2860<br>6310                                                                        | 9.42<br>(30.9) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   | *11660<br>*25710                                                                  | 9090<br>20040                                                                     | *8270<br>*18230                                                                   | 5930<br>13070                                                                     | *6800<br>*14990                                                                   | 4140<br>9130                                                                        | 4960<br>10930                                                                       | 2660<br>5860                                                                        | 9.64<br>(31.6) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   | *13520<br>*29810                                                                  | 8420<br>18560                                                                     | *9370<br>*20660                                                                   | 5550<br>12240                                                                     | 7290<br>16070                                                                     | 3940<br>8690                                                                        | 4950<br>10910                                                                       | 2640<br>5820                                                                        | 9.58<br>(31.4) |
| Ground Line       | kg<br>lb |                                                                                   |                                                                                   | *14060<br>*31000                                                                  | 8220<br>18120                                                                     | *10020<br>*22090                                                                  | 5330<br>11750                                                                     | 7140<br>15740                                                                     | 3800<br>8380                                                                        | 5230<br>11530                                                                       | 2790<br>6150                                                                        | 9.23<br>(30.3) |
| -1.5 m (-5 ft)    | kg<br>lb | *13470<br>*29700                                                                  | *13470<br>*29700                                                                  | *13770<br>*30360                                                                  | 8240<br>18170                                                                     | *10110<br>*22290                                                                  | 5270<br>11620                                                                     | 7110<br>15670                                                                     | 3780<br>8330                                                                        | 5930<br>13070                                                                       | 3210<br>7080                                                                        | 8.57<br>(28.1) |
| -3.0 m (-10 ft)   | kg<br>lb | *17570<br>*38740                                                                  | *17290<br>*38120                                                                  | *12710<br>*28020                                                                  | 8410<br>18540                                                                     | *9440<br>*20810                                                                   | 5370<br>11840                                                                     |                                                                                   |                                                                                     | *6180<br>*13620                                                                     | 4130<br>9110                                                                        | 7.47<br>(24.5) |
| -4.5 m (-15 ft)   | kg<br>lb | *14150<br>*31200                                                                  | *14150<br>*31200                                                                  | *10330<br>*22770                                                                  | 8800<br>19400                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                |

- 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) 6.25 m (20' 6") boom, 2.50 m (8' 2") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                   |          | 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)                                                                      |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | *4880<br>*10760                                                                     | 3920<br>8640                                                                        | 8.34<br>(27.4) |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5470<br>*12060                                                                    | 4580<br>10100                                                                       | *5020<br>*11070                                                                     | 3160<br>6970                                                                        | 9.19<br>(30.2) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *8180<br>18030                                                                    | *8180<br>*18030                                                                   | *6610<br>*14570                                                                   | 6500<br>14330                                                                     | *5880<br>*12960                                                                    | 4420<br>9740                                                                        | 5040<br>11110                                                                       | 2750<br>6060                                                                        | 9.69<br>(31.8) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *10910<br>*24050                                                                  | 9330<br>20570                                                                     | *7890<br>*17390                                                                   | 6030<br>13290                                                                     | *6530<br>*14400                                                                    | 4190<br>9240                                                                        | 4760<br>10490                                                                       | 2550<br>5620                                                                        | 9.90<br>(32.5) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *13040<br>*28750                                                                  | 8550<br>18850                                                                     | *9080<br>*20020                                                                   | 5610<br>12370                                                                     | *7190<br>*15850                                                                    | 3970<br>8750                                                                        | 4740<br>10450                                                                       | 2520<br>5560                                                                        | 9.84<br>(32.3) |
| Ground Line       | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *13950<br>*30750                                                                  | 8240<br>18170                                                                     | *9870<br>*21760                                                                   | 5350<br>11790                                                                     | 7140<br>15740                                                                      | 3810<br>8400                                                                        | 4970<br>10960                                                                       | 2640<br>5820                                                                        | 9.51<br>(31.2) |
| -1.5 m (-5 ft)    | kg<br>lb |                                                                                   |                                                                                   | *14370<br>*31680                                                                  | *14370<br>*31680                                                                  | *13930<br>*30710                                                                  | 8190<br>18060                                                                     | 10090<br>22240                                                                    | 5250<br>11570                                                                     | 7070<br>15590                                                                      | 3740<br>8250                                                                        | 5580<br>12300                                                                       | 2990<br>6590                                                                        | 8.87<br>(29.1) |
| -3.0 m (-10 ft)   | kg<br>lb | *16270<br>*35870                                                                  | *16270<br>*35870                                                                  | *18700<br>*41230                                                                  | 17040<br>37570                                                                    | *13110<br>*28900                                                                  | 8310<br>18320                                                                     | *9690<br>*21360                                                                   | 5300<br>11680                                                                     |                                                                                    |                                                                                     | *6310<br>*13910                                                                     | 3770<br>8310                                                                        | 7.82<br>(25.7) |
| -4.5 m (-15 ft)   | kg<br>lb |                                                                                   |                                                                                   | *15620<br>*34440                                                                  | *15620<br>*34440                                                                  | *11170<br>*24630                                                                  | 8630<br>19030                                                                     |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                |

(3) 6.25 m (20' 6") boom, 3.05 m (10' 0") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       | At max. reach                                                                         |                                                                                       |                 |
|-------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|
|                   |          | 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)                                                                       |                                                                                     | 9.0 m (30 ft)                                                                        |                                                                                       | Capacity                                                                              |                                                                                       | Reach           |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)          |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       | *4460<br>*9830                                                                        | 3460<br>7630                                                                          | 8.94<br>(29.3)  |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *4910<br>*10820                                                                     | 4670<br>10300                                                                       |                                                                                      |                                                                                       | *4600<br>*10140                                                                       | 2830<br>6240                                                                          | 9.74<br>(32.0)  |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *5960<br>*13140                                                                     | *5960<br>*13140                                                                     | *5390<br>*11880                                                                     | 4480<br>9880                                                                        |                                                                                      |                                                                                       | 4610<br>10160                                                                         | 2480<br>5470                                                                          | 10.20<br>(33.5) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                     |                                                                                     | *9910<br>*21850                                                                     | *9910<br>*21850                                                                     | *9820<br>*21650                                                                     | 9600<br>21160                                                                       | *7280<br>*16050                                                                     | 6110<br>13470                                                                       | *6090<br>*13430                                                                     | 4220<br>9300                                                                        | *4140<br>*9130                                                                       | 3010<br>6640                                                                          | 4370<br>9630                                                                          | 2310<br>5090                                                                          | 10.40<br>(34.1) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *12250<br>*27010                                                                    | 8690<br>19160                                                                       | *8590<br>*18940                                                                     | 5650<br>12460                                                                       | *6830<br>*15060                                                                     | 3960<br>8730                                                                        | *4900<br>*10800                                                                      | 2880<br>6320                                                                          | 4340<br>9570                                                                          | 2270<br>5000                                                                          | 10.35<br>(34.0) |
| Ground Line       | kg<br>lb |                                                                                     |                                                                                     | *9590<br>*21140                                                                     | *9590<br>*21140                                                                     | *13580<br>*29940                                                                    | 8220<br>18120                                                                       | *9550<br>*21050                                                                     | 5320<br>11730                                                                       | 7110<br>15670                                                                       | 3770<br>8310                                                                        | *4310<br>*9500                                                                       | 2780<br>6130                                                                          | 4520<br>9960                                                                          | 2360<br>5200                                                                          | 10.04<br>(32.9) |
| -1.5 m (-5 ft)    | kg<br>lb | *10390<br>*22910                                                                    | *10390<br>*22910                                                                    | *13470<br>*29700                                                                    | *13470<br>*29700                                                                    | *13920<br>*30690                                                                    | 8080<br>17810                                                                       | *10000<br>*22050                                                                    | 5170<br>11400                                                                       | 6990<br>15410                                                                       | 3660<br>8070                                                                        |                                                                                      |                                                                                       | 4990<br>11000                                                                         | 2630<br>5800                                                                          | 9.44<br>(31.0)  |
| -3.0 m (-10 ft)   | kg<br>lb | *14060<br>*31000                                                                    | *14060<br>*31000                                                                    | *18180<br>*40080                                                                    | 16660<br>36730                                                                      | *13440<br>*29630                                                                    | 8130<br>17920                                                                       | *9830<br>*21670                                                                     | 5160<br>11380                                                                       | 7010<br>15450                                                                       | 3680<br>8110                                                                        |                                                                                      |                                                                                       | *5980<br>*13180                                                                       | 3220<br>7100                                                                          | 8.48<br>(27.8)  |
| -4.5 m (-15 ft)   | kg<br>lb | *18380<br>*40520                                                                    | *18380<br>*40520                                                                    | *17190<br>*37900                                                                    | 17140<br>37790                                                                      | *11970<br>*26390                                                                    | 8370<br>18450                                                                       | *8750<br>*19290                                                                     | 5330<br>11750                                                                       |                                                                                     |                                                                                     |                                                                                      |                                                                                       | *5960<br>*13140                                                                       | 4600<br>10140                                                                         | 6.97<br>(22.9)  |



(4) 6.25 m (20' 6") boom, 3.75 m (12' 4") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                 |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
|                   |          | 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)                                                                     |                                                                                   | 9.0 m (30 ft)                                                                       |                                                                                     | Capacity                                                                            |                                                                                     | Reach           |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)          |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *3930<br>*8660                                                                      | 2980<br>6570                                                                        | 9.67<br>(31.7)  |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4160<br>*9170                                                                    | *4160<br>*9170                                                                    | *2370<br>*5220                                                                      | *2370<br>*5220                                                                      | *4090<br>*9020                                                                      | 2470<br>5450                                                                        | 10.40<br>(34.1) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4710<br>*10380                                                                   | 4560<br>10050                                                                     | *3720<br>*8200                                                                      | 3180<br>7010                                                                        | 4140<br>9130                                                                        | 2180<br>4810                                                                        | 10.83<br>(35.5) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   | *13490<br>*29740                                                                  | *13490<br>*29740                                                                  | *8320<br>*18340                                                                   | *8320<br>*18340                                                                   | *6410<br>*14130                                                                   | 6280<br>13850                                                                     | *5470<br>*12060                                                                   | 4280<br>9440                                                                      | *4740<br>*10450                                                                     | 3030<br>6680                                                                        | 3930<br>8660                                                                        | 2020<br>4450                                                                        | 11.02<br>(36.2) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   | *9980<br>*22000                                                                   | *9980<br>*22000                                                                   | *11050<br>*24360                                                                  | 8990<br>19820                                                                     | *7850<br>*17310                                                                   | 5760<br>12700                                                                     | *6300<br>*13890                                                                   | 3990<br>8800                                                                      | 5420<br>11950                                                                       | 2870<br>6330                                                                        | 3890<br>8580                                                                        | 1980<br>4370                                                                        | 10.97<br>(36.0) |
| Ground Line       | kg<br>lb | *6470<br>*14260                                                                   | *6470<br>*14260                                                                   | *10300<br>*22710                                                                  | *10300<br>*22710                                                                  | *12890<br>*28420                                                                  | 8320<br>18340                                                                     | *9020<br>*19890                                                                   | 5360<br>11820                                                                     | *7030<br>*15500                                                                   | 3750<br>8270                                                                      | 5270<br>11620                                                                       | 2740<br>6040                                                                        | 4030<br>8880                                                                        | 2040<br>4500                                                                        | 10.68<br>(35.0) |
| -1.5 m (-5 ft)    | kg<br>lb | *9310<br>*20530                                                                   | *9310<br>*20530                                                                   | *12760<br>*28130                                                                  | *12760<br>*28130                                                                  | *13720<br>*30250                                                                  | 8020<br>17680                                                                     | *9730<br>*21450                                                                   | 5120<br>11290                                                                     | 6930<br>15280                                                                     | 3600<br>7940                                                                      | 5180<br>11420                                                                       | 2660<br>5860                                                                        | 4380<br>9660                                                                        | 2250<br>4960                                                                        | 10.12<br>(33.2) |
| -3.0 m (-10 ft)   | kg<br>lb | *12290<br>*27090                                                                  | *12290<br>*27090                                                                  | *16240<br>*35800                                                                  | *16240<br>*35800                                                                  | *13690<br>*30180                                                                  | 7970<br>17570                                                                     | *9880<br>*21780                                                                   | 5050<br>11130                                                                     | 6880<br>15170                                                                     | 3550<br>7830                                                                      |                                                                                     |                                                                                     | 5110<br>11270                                                                       | 2680<br>5910                                                                        | 9.25<br>(30.3)  |
| -4.5 m (-15 ft)   | kg<br>lb | *15740<br>*34700                                                                  | *15740<br>*34700                                                                  | *18940<br>*41760                                                                  | 16670<br>36750                                                                    | *12770<br>*28150                                                                  | 8120<br>17900                                                                     | *9310<br>*20530                                                                   | 5120<br>11290                                                                     |                                                                                   |                                                                                   |                                                                                     |                                                                                     | *5780<br>*12740                                                                     | 3590<br>7910                                                                        | 7.92<br>(26.0)  |

### 3) R290LC-9 LONG REACH

(1) 10.2 m (33' 6") boom, 7.85 m (25' 9") arm equipped with 0.52 m³ (SAE heaped) bucket and 800 mm (32") triple grouser shoe and 7000 kg counterweight.

•  : Rating over-front •  : Rating over-side or 360 degree

| Load point height |    | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |        |
|-------------------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                   |    | 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)                                                                  |                                                                                   | 13.5 m (45.0 ft)                                                                  |                                                                                     | 15.0 m (50.0 ft)                                                                    |                                                                                     | Capacity                                                                            |                                                                                     | Reach  |
|                   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 13.5 m            | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *1820                                                                               | *1820                                                                               | 14.13  |
| 45.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *4010                                                                               | *4010                                                                               | (46.4) |
| 12.0 m            | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *1840                                                                               | *1840                                                                               | 15.27  |
| 40.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *4060                                                                               | *4060                                                                               | (50.1) |
| 10.5 m            | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *1100                                                                               | *1100                                                                               | *1870                                                                               | 1830                                                                                | 16.18  |
| 35.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *2430                                                                               | *2430                                                                               | *4120                                                                               | 4030                                                                                | (53.1) |
| 9.0 m             | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *1560                                                                               | *1560                                                                               | *1920                                                                               | 1600                                                                                | 16.89  |
| 30.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | *3440                                                                               | *3440                                                                               | *4230                                                                               | 3530                                                                                | (55.4) |
| 7.5 m             | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *1940                                                                             | *1940                                                                               | *1870                                                                               | *1870                                                                               | *1970                                                                               | 1440                                                                                | 17.44  |
| 25.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4280                                                                             | *4280                                                                               | *4120                                                                               | *4120                                                                               | *4340                                                                               | 3170                                                                                | (57.2) |
| 6.0 m             | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2090                                                                             | *2090                                                                               | *2060                                                                               | 2020                                                                                | *2030                                                                               | 1310                                                                                | 17.83  |
| 20.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4610                                                                             | *4610                                                                               | *4540                                                                               | 4450                                                                                | *4480                                                                               | 2890                                                                                | (58.5) |
| 4.5 m             | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *2390                                                                             | *2390                                                                             | *2270                                                                             | *2270                                                                               | *2190                                                                               | 1930                                                                                | *2090                                                                               | 1220                                                                                | 18.08  |
| 15.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5270                                                                             | *5270                                                                             | *5000                                                                             | *5000                                                                               | *4830                                                                               | 4250                                                                                | *4610                                                                               | 2690                                                                                | (59.3) |
| 3.0 m             | kg |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *3320                                                                             | *3320                                                                             | *2940                                                                             | *2940                                                                             | *2670                                                                             | *2670                                                                             | *2480                                                                             | 2290                                                                                | *2340                                                                               | 1830                                                                                | 2120                                                                                | 1150                                                                                | 18.20  |
| 10.0 ft           | lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *7320                                                                             | *7320                                                                             | *6480                                                                             | *6480                                                                             | *5890                                                                             | *5890                                                                             | *5470                                                                             | 5050                                                                                | *5160                                                                               | 4030                                                                                | 4670                                                                                | 2540                                                                                | (59.7) |
| 1.5 m             | kg | *6230                                                                             | *6230                                                                             | *4760                                                                             | *4760                                                                             | *3900                                                                             | *3900                                                                             | *3340                                                                             | *3340                                                                             | *2970                                                                             | 2670                                                                              | *2700                                                                             | 2140                                                                                | *2510                                                                               | 1730                                                                                | 2080                                                                                | 1110                                                                                | 18.19  |
| 5.0 ft            | lb | *13730                                                                            | *13730                                                                            | *10490                                                                            | *10490                                                                            | *8600                                                                             | *8600                                                                             | *7360                                                                             | *7360                                                                             | *6550                                                                             | 5890                                                                              | *5950                                                                             | 4720                                                                                | *5530                                                                               | 3810                                                                                | 4590                                                                                | 2450                                                                                | (59.7) |
| Ground /line      | kg | *7390                                                                             | 6790                                                                              | *5530                                                                             | 5040                                                                              | *4440                                                                             | 3900                                                                              | *3740                                                                             | 3090                                                                              | *3260                                                                             | 2480                                                                              | *2920                                                                             | 2010                                                                                | *2670                                                                               | 1630                                                                                | 2070                                                                                | 1100                                                                                | 18.04  |
|                   | lb | *16290                                                                            | 14970                                                                             | *12190                                                                            | 11110                                                                             | *9790                                                                             | 8600                                                                              | *8250                                                                             | 6810                                                                              | *7190                                                                             | 5470                                                                              | *6440                                                                             | 4430                                                                                | *5890                                                                               | 3590                                                                                | 4560                                                                                | 2430                                                                                | (59.2) |
| -1.5 m            | kg | *8230                                                                             | 6220                                                                              | *6170                                                                             | 4620                                                                              | *4910                                                                             | 3590                                                                              | *4090                                                                             | 2870                                                                              | *3530                                                                             | 2320                                                                              | *3120                                                                             | 1890                                                                                | 2770                                                                                | 1540                                                                                | 2100                                                                                | 1110                                                                                | 17.76  |
| -5.0 ft           | lb | *18140                                                                            | 13710                                                                             | *13600                                                                            | 10190                                                                             | *10820                                                                            | 7910                                                                              | *9020                                                                             | 6330                                                                              | *7780                                                                             | 5110                                                                              | *6880                                                                             | 4170                                                                                | 6110                                                                                | 3400                                                                                | 4630                                                                                | 2450                                                                                | (58.3) |
| -3.0 m            | kg | *8770                                                                             | 5900                                                                              | *6630                                                                             | 4340                                                                              | *5290                                                                             | 3370                                                                              | *4390                                                                             | 2690                                                                              | *3760                                                                             | 2190                                                                              | 3190                                                                              | 1790                                                                                | 2700                                                                                | 1480                                                                                | 2170                                                                                | 1140                                                                                | 17.33  |
| -10.0 ft          | lb | *19330                                                                            | 13010                                                                             | *14620                                                                            | 9570                                                                              | *11660                                                                            | 7430                                                                              | *9680                                                                             | 5930                                                                              | *8290                                                                             | 4830                                                                              | 7030                                                                              | 3950                                                                                | 5950                                                                                | 3260                                                                                | 4780                                                                                | 2510                                                                                | (56.9) |
| -4.5 m            | kg | *9070                                                                             | 5750                                                                              | *6930                                                                             | 4180                                                                              | *5550                                                                             | 3230                                                                              | 4530                                                                              | 2580                                                                              | 3730                                                                              | 2100                                                                              | 3120                                                                              | 1730                                                                                | 2660                                                                                | 1440                                                                                | 2280                                                                                | 1220                                                                                | 16.75  |
| -15.0 ft          | lb | *20000                                                                            | 12680                                                                             | *15280                                                                            | 9220                                                                              | *12240                                                                            | 7120                                                                              | 9990                                                                              | 5690                                                                              | 8220                                                                              | 4630                                                                              | 6880                                                                              | 3810                                                                                | 5860                                                                                | 3170                                                                                | 5030                                                                                | 2690                                                                                | (55.0) |
| -6.0 m            | kg | *9150                                                                             | 5710                                                                              | *7080                                                                             | 4120                                                                              | 5580                                                                              | 3160                                                                              | 4460                                                                              | 2510                                                                              | 3670                                                                              | 2050                                                                              | 3090                                                                              | 1700                                                                                | 2650                                                                                | 1430                                                                                | 2470                                                                                | 1330                                                                                | 15.99  |
| -20.0 ft          | lb | *20170                                                                            | 12590                                                                             | *15610                                                                            | 9080                                                                              | 12300                                                                             | 6970                                                                              | 9830                                                                              | 5530                                                                              | 8090                                                                              | 4520                                                                              | 6810                                                                              | 3750                                                                                | 5840                                                                                | 3150                                                                                | 5450                                                                                | 2930                                                                                | (52.5) |
| -7.5 m            | kg | *9030                                                                             | 5770                                                                              | *7060                                                                             | 4130                                                                              | 5570                                                                              | 3150                                                                              | 4450                                                                              | 2510                                                                              | 3670                                                                              | 2050                                                                              | 3110                                                                              | 1710                                                                                |                                                                                     |                                                                                     | 2740                                                                                | 1520                                                                                | 15.04  |
| -25.0 ft          | lb | *19910                                                                            | 12720                                                                             | *15560                                                                            | 9110                                                                              | 12280                                                                             | 6940                                                                              | 9810                                                                              | 5530                                                                              | 8090                                                                              | 4520                                                                              | 6860                                                                              | 3770                                                                                |                                                                                     |                                                                                     | 6040                                                                                | 3350                                                                                | (49.3) |
| -9.0 m            | kg | *8690                                                                             | 5920                                                                              | *6860                                                                             | 4220                                                                              | *5590                                                                             | 3210                                                                              | 4500                                                                              | 2550                                                                              | 3730                                                                              | 2100                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *3130                                                                               | 1800                                                                                | 13.83  |
| -30.0 ft          | lb | *19160                                                                            | 13050                                                                             | *15120                                                                            | 9300                                                                              | *12320                                                                            | 7080                                                                              | 9920                                                                              | 5620                                                                              | 8220                                                                              | 4630                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *6900                                                                               | 3970                                                                                | (45.4) |
| -10.5 m           | kg | *8080                                                                             | 6150                                                                              | *6430                                                                             | 4380                                                                              | *5250                                                                             | 3340                                                                              | *4340                                                                             | 2670                                                                              | *3570                                                                             | 2230                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *3290                                                                               | 2270                                                                                | 12.31  |
| -35.0 ft          | lb | *17810                                                                            | 13560                                                                             | *14180                                                                            | 9660                                                                              | *11570                                                                            | 7360                                                                              | *9570                                                                             | 5890                                                                              | *7870                                                                             | 4920                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     | *7250                                                                               | 5000                                                                                | (40.4) |
| -12.0 m           | kg | *7090                                                                             | 6490                                                                              | *5670                                                                             | 4630                                                                              | *4580                                                                             | 3560                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |
| -40.0 ft          | lb | *15630                                                                            | 14310                                                                             | *12500                                                                            | 10210                                                                             | *10100                                                                            | 7850                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |
| -13.5 m           | kg | *5480                                                                             | *5480                                                                             | *4290                                                                             | *4290                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |
| -45.0 ft          | lb | *12080                                                                            | *12080                                                                            | *9460                                                                             | *9460                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |

- 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.

#### 4) R290LC-9 HIGH WALKER

(1) 6.25 m (20' 6") boom, 2.10 m (6' 11") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

-  : Rating over-front
-  : Rating over-side or 360 degree

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                   |          | 3.0 m (10 ft)                                                                     |                                                                                   | 4.5 m (15 ft)                                                                     |                                                                                   | 6.0 m (20 ft)                                                                     |                                                                                   | 7.5 m (25 ft)                                                                     |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                   |          |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5750<br>*12680                                                                   | *5750<br>*12680                                                                   |                                                                                   |                                                                                     | *5300<br>*11680                                                                     | 5190<br>11440                                                                       | 8.21<br>(26.9) |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *6220<br>*13710                                                                   | *6220<br>*13710                                                                   | *5920<br>*13050                                                                   | 5880<br>12960                                                                       | *5400<br>*11900                                                                     | 4290<br>9460                                                                        | 9.02<br>(29.6) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   | *9430<br>*20790                                                                   | *9430<br>*20790                                                                   | *7260<br>*16010                                                                   | *7260<br>*16010                                                                   | *6310<br>*13910                                                                   | 5720<br>12610                                                                       | *5560<br>*12260                                                                     | 3840<br>8470                                                                        | 9.48<br>(31.1) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   | *12110<br>*26700                                                                  | 12050<br>26570                                                                    | *8490<br>*18720                                                                   | 7800<br>17200                                                                     | *6910<br>*15230                                                                   | 5500<br>12130                                                                       | 5540<br>12210                                                                       | 3640<br>8020                                                                        | 9.65<br>(31.7) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   | *13700<br>*30200                                                                  | 11450<br>25240                                                                    | *9530<br>*21010                                                                   | 7430<br>16380                                                                     | *7490<br>*16510                                                                   | 5300<br>11680                                                                       | 5590<br>12320                                                                       | 3660<br>8070                                                                        | 9.54<br>(31.3) |
| Ground Line       | kg<br>lb |                                                                                   |                                                                                   | *14060<br>*31000                                                                  | 11290<br>24890                                                                    | *10080<br>*22220                                                                  | 7230<br>15940                                                                     | *7830<br>*17260                                                                   | 5180<br>11420                                                                       | 5970<br>13160                                                                       | 3910<br>8620                                                                        | 9.14<br>(30.0) |
| -1.5 m (-5 ft)    | kg<br>lb | *14990<br>*33050                                                                  | *14990<br>*33050                                                                  | *13640<br>*30070                                                                  | 11340<br>25000                                                                    | *10050<br>*22160                                                                  | 7200<br>15870                                                                     | *7690<br>*16950                                                                   | 5180<br>11420                                                                       | *6270<br>*13820                                                                     | 4520<br>9960                                                                        | 8.40<br>(27.6) |
| -3.0 m (-10 ft)   | kg<br>lb | *17110<br>*37720                                                                  | *17110<br>*37720                                                                  | *12400<br>*27340                                                                  | 11560<br>25490                                                                    | *9200<br>*20280                                                                   | 7340<br>16180                                                                     |                                                                                   |                                                                                     | *6100<br>*13450                                                                     | 5900<br>13010                                                                       | 7.21<br>(23.7) |
| -4.5 m (-15 ft)   | kg<br>lb | *13230<br>*29170                                                                  | *13230<br>*29170                                                                  | *9610<br>*21190                                                                   | *9610<br>*21190                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                |

- 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) 6.25 m (20' 6") boom, 2.50 m (8' 2") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | At max. reach                                                                       |                                                                                     |                |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                   |          | 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)                                                                      |                                                                                     | Capacity                                                                            |                                                                                     | Reach          |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)         |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | *4910<br>*10820                                                                     | *4910<br>*10820                                                                     | 8.52<br>(28.0) |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *5770<br>*12720                                                                   | *5770<br>*12720                                                                   | *5520<br>*12170                                                                    | *5520<br>*12170                                                                     | *5060<br>*11160                                                                     | 4120<br>9080                                                                        | 9.30<br>(30.5) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *8660<br>*19090                                                                   | *8660<br>*19090                                                                   | *6830<br>*15060                                                                   | *6830<br>*15060                                                                   | *5990<br>*13210                                                                    | 5790<br>12760                                                                       | *5240<br>*11550                                                                     | 3690<br>8140                                                                        | 9.75<br>(32.0) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *11380<br>*25090                                                                  | *11380<br>*25090                                                                  | *8130<br>*17920                                                                   | 7900<br>17420                                                                     | *6650<br>*14660                                                                    | 5550<br>12240                                                                       | 5330<br>11750                                                                       | 3500<br>7720                                                                        | 9.91<br>(32.5) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *13300<br>*29320                                                                  | 11560<br>25490                                                                    | *9260<br>*20410                                                                   | 7490<br>16510                                                                     | *7300<br>*16090                                                                    | 5330<br>11750                                                                       | 5350<br>11790                                                                       | 3500<br>7720                                                                        | 9.80<br>(32.2) |
| Ground Line       | kg<br>lb |                                                                                   |                                                                                   | *9530<br>*21010                                                                   | *9530<br>*21010                                                                   | *14010<br>*30890                                                                  | 11290<br>24890                                                                    | *9960<br>*21960                                                                   | 7240<br>15960                                                                     | *7730<br>*17040                                                                    | 5180<br>11420                                                                       | 5680<br>12520                                                                       | 3710<br>8180                                                                        | 9.42<br>(30.9) |
| -1.5 m (-5 ft)    | kg<br>lb | *12300<br>*27120                                                                  | *12300<br>*27120                                                                  | *15460<br>*34080                                                                  | *15460<br>*34080                                                                  | *13840<br>*30510                                                                  | 11280<br>24870                                                                    | *10100<br>*22270                                                                  | 7170<br>15810                                                                     | *7780<br>*17150                                                                    | 5140<br>11330                                                                       | *6210<br>*13690                                                                     | 4230<br>9330                                                                        | 8.71<br>(28.6) |
| -3.0 m (-10 ft)   | kg<br>lb | *17240<br>*38010                                                                  | *17240<br>*38010                                                                  | *18270<br>*40280                                                                  | *18270<br>*40280                                                                  | *12870<br>*28370                                                                  | 11450<br>25240                                                                    | *9510<br>*20970                                                                   | 7250<br>15980                                                                     |                                                                                    |                                                                                     | *6300<br>*13890                                                                     | 5380<br>11860                                                                       | 7.58<br>(24.9) |
| -4.5 m (-15 ft)   | kg<br>lb |                                                                                   |                                                                                   | *14820<br>*32670                                                                  | *14820<br>*32670                                                                  | *10610<br>*23390                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                |

(3) 6.25 m (20' 6") boom, 3.05 m (10' 0") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

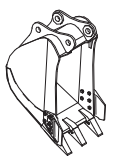
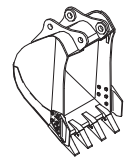
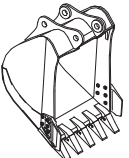
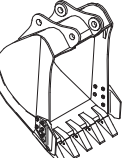
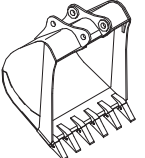
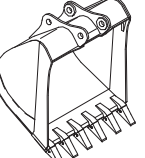
| Load point height |          | Load radius                                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       | At max. reach                                                                         |                                                                                       |                 |
|-------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|
|                   |          | 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)                                                                       |                                                                                     | 9.0 m (30 ft)                                                                        |                                                                                       | Capacity                                                                              |                                                                                       | Reach           |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)          |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *3300<br>*7280                                                                      | *3300<br>*7280                                                                      |                                                                                      |                                                                                       | *4480<br>*9880                                                                        | 4400<br>9700                                                                          | 9.12<br>(29.9)  |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *4980<br>*10980                                                                     | *4980<br>*10980                                                                     |                                                                                      |                                                                                       | *4630<br>*10210                                                                       | 3730<br>8220                                                                          | 9.84<br>(32.3)  |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *6180<br>*13620                                                                     | *6180<br>*13620                                                                     | *5510<br>*12150                                                                     | *5510<br>*12150                                                                     |                                                                                      |                                                                                       | *4820<br>*10630                                                                       | 3370<br>7430                                                                          | 10.26<br>(33.7) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                     |                                                                                     |                                                                                     |                                                                                     | *10320<br>*22750                                                                    | *10320<br>*22750                                                                    | *7530<br>*16600                                                                     | *7530<br>*16600                                                                     | *6230<br>*13730                                                                     | 5580<br>12300                                                                       | *2910<br>*6420                                                                       | *2910<br>*6420                                                                        | 4900<br>10800                                                                         | 3200<br>7050                                                                          | 10.41<br>(34.2) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                     |                                                                                     | *6850<br>*15100                                                                     | *6850<br>*15100                                                                     | *12580<br>*27730                                                                    | 11680<br>25750                                                                      | *8790<br>*19380                                                                     | 7520<br>16580                                                                       | *6950<br>*15320                                                                     | 5320<br>11730                                                                       | *4340<br>*9570                                                                       | 4080<br>8990                                                                          | 4910<br>10820                                                                         | 3190<br>7030                                                                          | 10.31<br>(33.8) |
| Ground Line       | kg<br>lb |                                                                                     |                                                                                     | *10250<br>*22600                                                                    | *10250<br>*22600                                                                    | *13710<br>*30230                                                                    | 11260<br>24820                                                                      | *9670<br>*21320                                                                     | 7210<br>15900                                                                       | *7500<br>*16530                                                                     | 5140<br>11330                                                                       | *4920<br>*10850                                                                      | 3950<br>8710                                                                          | 5160<br>11380                                                                         | 3350<br>7390                                                                          | 9.95<br>(32.6)  |
| -1.5 m (-5 ft)    | kg<br>lb | *11020<br>*24290                                                                    | *11020<br>*24290                                                                    | *14240<br>*31390                                                                    | *14240<br>*31390                                                                    | *13900<br>*30640                                                                    | 11150<br>24580                                                                      | *10020<br>*22090                                                                    | 7080<br>15610                                                                       | *7720<br>*17020                                                                     | 5050<br>11130                                                                       |                                                                                      |                                                                                       | 5760<br>12700                                                                         | 3760<br>8290                                                                          | 9.29<br>(30.5)  |
| -3.0 m (-10 ft)   | kg<br>lb | *14780<br>*32580                                                                    | *14780<br>*32580                                                                    | *19180<br>*42280                                                                    | *19180<br>*42280                                                                    | *13260<br>*29230                                                                    | 11240<br>24780                                                                      | *9720<br>*21430                                                                     | 7100<br>15650                                                                       | *7360<br>*16230                                                                     | 5100<br>11240                                                                       |                                                                                      |                                                                                       | *6010<br>*13250                                                                       | 4610<br>10160                                                                         | 8.25<br>(27.1)  |
| -4.5 m (-15 ft)   | kg<br>lb | *19280<br>*42510                                                                    | *19280<br>*42510                                                                    | *16520<br>*36420                                                                    | *16520<br>*36420                                                                    | *11550<br>*25460                                                                    | 11540<br>25440                                                                      | *8370<br>*18450                                                                     | 7320<br>16140                                                                       |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                 |

(4) 6.25 m (20' 6") boom, 3.75 m (12' 4") arm equipped with 1.27 m<sup>3</sup> (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 5200 kg counterweight.

| Load point height |          | Load radius                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | At max. reach                                                                       |                                                                                     |                 |
|-------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
|                   |          | 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)                                                                     |                                                                                    | 9.0 m (30 ft)                                                                       |                                                                                     | Capacity                                                                            |                                                                                     | Reach           |
|                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)          |
| 7.5 m (25 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | *3960<br>*8730                                                                      | 3850<br>8490                                                                        | 9.83<br>(32.3)  |
| 6.0 m (20 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4240<br>*9350                                                                    | *4240<br>*9350                                                                     | *2680<br>*5910                                                                      | *2680<br>*5910                                                                      | *4120<br>*9080                                                                      | 3310<br>7300                                                                        | 10.50<br>(34.4) |
| 4.5 m (15 ft)     | kg<br>lb |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *4830<br>*10650                                                                   | 4830<br>10650                                                                      | *3910<br>*8620                                                                      | *3910<br>*8620                                                                      | *4310<br>*9500                                                                      | 3000<br>6610                                                                        | 10.89<br>(35.7) |
| 3.0 m (10 ft)     | kg<br>lb |                                                                                   |                                                                                   | *14870<br>*32780                                                                  | *14870<br>*32780                                                                  | *8850<br>*19510                                                                   | *8850<br>*19510                                                                   | *6680<br>*14730                                                                   | *6680<br>*14730                                                                   | *5620<br>*12390                                                                   | *5620<br>*12390                                                                    | *4930<br>*10870                                                                     | 4100<br>9040                                                                        | 4420<br>9740                                                                        | 2850<br>6280                                                                        | 11.03<br>(36.2) |
| 1.5 m (5 ft)      | kg<br>lb |                                                                                   |                                                                                   | *9690<br>*21360                                                                   | *9690<br>*21360                                                                   | *11460<br>*25260                                                                  | *11460<br>*25260                                                                  | *8090<br>*17840                                                                   | 7620<br>16800                                                                     | *6450<br>*14220                                                                   | 5350<br>11790                                                                      | *5530<br>*12190                                                                     | 3940<br>8690                                                                        | 4420<br>9740                                                                        | 2830<br>6240                                                                        | 10.93<br>(35.9) |
| Ground Line       | kg<br>lb | *6990<br>*15410                                                                   | *6990<br>*15410                                                                   | *10660<br>*23500                                                                  | *10660<br>*23500                                                                  | *13120<br>*28920                                                                  | 11340<br>25000                                                                    | *9190<br>*20260                                                                   | 7230<br>15940                                                                     | *7130<br>*15720                                                                   | 5120<br>11290                                                                      | 5910<br>13030                                                                       | 3810<br>8400                                                                        | 4610<br>10160                                                                       | 2950<br>6500                                                                        | 10.60<br>(34.8) |
| -1.5 m (-5 ft)    | kg<br>lb | *9830<br>*21670                                                                   | *9830<br>*21670                                                                   | *13320<br>*29370                                                                  | *13320<br>*29370                                                                  | *13780<br>*30380                                                                  | 11080<br>24430                                                                    | *9800<br>*21610                                                                   | 7020<br>15480                                                                     | *7550<br>*16640                                                                   | 4980<br>10980                                                                      | *4790<br>*10560                                                                     | 3740<br>8250                                                                        | 5060<br>11160                                                                       | 3260<br>7190                                                                        | 9.99<br>(32.8)  |
| -3.0 m (-10 ft)   | kg<br>lb | *12870<br>*28370                                                                  | *12870<br>*28370                                                                  | *16990<br>*37460                                                                  | *16990<br>*37460                                                                  | *13590<br>*29960                                                                  | 11060<br>24380                                                                    | *9840<br>*21690                                                                   | 6970<br>15370                                                                     | *7530<br>*16600                                                                   | 4950<br>10910                                                                      |                                                                                     |                                                                                     | *5610<br>*12370                                                                     | 3880<br>8550                                                                        | 9.04<br>(29.7)  |
| -4.5 m (-15 ft)   | kg<br>lb | *16450<br>*36270                                                                  | *16450<br>*36270                                                                  | *18430<br>*40630                                                                  | *18430<br>*40630                                                                  | *12480<br>*27510                                                                  | 11250<br>24800                                                                    | *9100<br>*20060                                                                   | 7080<br>15610                                                                     |                                                                                   |                                                                                    |                                                                                     |                                                                                     | *5790<br>*12760                                                                     | 5250<br>11570                                                                       | 7.61<br>(25.0)  |

## 6. BUCKET SELECTION GUIDE

### 1) GENERAL BUCKET

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| 0.79 m³ SAE<br>heaped bucket                                                      | 1.03 m³ SAE<br>heaped bucket                                                      | ※ 1.27 m³ SAE<br>heaped bucket                                                    | 1.50 m³ SAE<br>heaped bucket                                                      | 1.73 m³ SAE<br>heaped bucket                                                        | 1.85 m³ SAE<br>heaped bucket                                                        |

| Capacity                |                       | Width                  |                     | Weight               | Recommendation        |                      |                        |                        |
|-------------------------|-----------------------|------------------------|---------------------|----------------------|-----------------------|----------------------|------------------------|------------------------|
|                         |                       |                        |                     |                      | 6.25 m (20' 6") boom  |                      |                        |                        |
| SAE<br>heaped           | CECE<br>heaped        | Without<br>side cutter | With<br>side cutter |                      | 2.1 m arm<br>(6' 11") | 2.5 m arm<br>(8' 2") | 3.05 m arm<br>(10' 0") | 3.75 m arm<br>(12' 4") |
| 0.79 m³<br>(1.03 yd³)   | 0.70 m³<br>(0.92 yd³) | 890 mm<br>(35.0")      | 1010 mm<br>(39.8")  | 790 kg<br>(1740 lb)  |                       |                      |                        |                        |
| 1.03 m³<br>(1.35 yd³)   | 0.90 m³<br>(1.18 yd³) | 1090 mm<br>(42.9")     | 1210 mm<br>(47.6")  | 890 kg<br>(1960 lb)  |                       |                      |                        |                        |
| ※ 1.27 m³<br>(1.66 yd³) | 1.10 m³<br>(1.44 yd³) | 1290 mm<br>(50.8")     | 1410 mm<br>(55.5")  | 1010 kg<br>(2230 lb) |                       |                      |                        |                        |
| 1.50 m³<br>(1.96 yd³)   | 1.30 m³<br>(1.70 yd³) | 1490 mm<br>(58.7")     | 1610 mm<br>(63.4")  | 1080 kg<br>(2380 lb) |                       |                      |                        |                        |
| 1.73 m³<br>(2.26 yd³)   | 1.50 m³<br>(1.96 yd³) | 1700 mm<br>(66.9")     | 1820 mm<br>(71.7")  | 1170 kg<br>(2580 lb) |                       |                      |                        |                        |
| 1.85 m³<br>(2.42 yd³)   | 1.60 m³<br>(2.09 yd³) | 1800 mm<br>(70.9")     | 1920 mm<br>(75.6")  | 1230 kg<br>(2710 lb) |                       |                      |                        |                        |

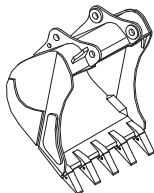
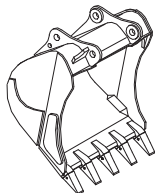
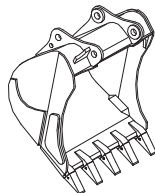
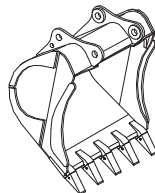
※ : Standard bucket

 Applicable for materials with density of 2000 kgf/m³ (3370 lbf/yd³) or less

 Applicable for materials with density of 1600 kgf/m³ (2700 lbf/yd³) or less

 Applicable for materials with density of 1100 kgf/m³ (1850 lbf/yd³) or less

## 2) ROCK AND HEAVY DUTY BUCKET

|                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| <p>◆ 1.07 m³ SAE</p> <p>◆ 1.15 m³ SAE</p> <p>heaped bucket</p>                    | <p>◆ 1.27 m³ SAE</p> <p>heaped bucket</p>                                         | <p>◆ 1.46 m³ SAE</p> <p>heaped bucket</p>                                          | <p>⊙ 1.16 m³ SAE</p> <p>⊙ 1.49 m³ SAE</p> <p>heaped bucket</p>                      |

| Capacity               |                       | Width                  |                     | Weight               | Recommendation        |                      |                        |                        |
|------------------------|-----------------------|------------------------|---------------------|----------------------|-----------------------|----------------------|------------------------|------------------------|
| SAE<br>heaped          | CECE<br>heaped        | Without<br>side cutter | With<br>side cutter |                      | 6.25 m (20' 6") boom  |                      |                        |                        |
|                        |                       |                        |                     |                      | 2.1 m arm<br>(6' 11") | 2.5 m arm<br>(8' 2") | 3.05 m arm<br>(10' 0") | 3.75 m arm<br>(12' 4") |
| ◆1.07 m³<br>(1.40 yd³) | 0.95 m³<br>(1.24 yd³) | 1150 mm<br>(45.3")     | -                   | 1120 kg<br>(2470 lb) |                       |                      |                        |                        |
| ◆1.15 m³<br>(1.50 yd³) | 1.00 m³<br>(1.31 yd³) | 1210 mm<br>(47.6")     | -                   | 1160 kg<br>(2560 lb) |                       |                      |                        |                        |
| ◆1.27 m³<br>(1.66 yd³) | 1.10 m³<br>(1.44 yd³) | 1310 mm<br>(51.6")     | -                   | 1240 kg<br>(2730 lb) |                       |                      |                        |                        |
| ◆1.46 m³<br>(1.91 yd³) | 1.28 m³<br>(1.67 yd³) | 1460 mm<br>(57.5")     | -                   | 1320 kg<br>(2910 lb) |                       |                      |                        |                        |
| ⊙1.16 m³<br>(1.52 yd³) | 1.00 m³<br>(1.31 yd³) | 1340 mm<br>(52.8")     | -                   | 1280 kg<br>(2820 lb) |                       |                      |                        |                        |
| ⊙1.49 m<br>(1.95 yd³)  | 1.28 m<br>(1.67 yd³)  | 1620 mm<br>(63.8")     | -                   | 1440 kg<br>(3170 lb) |                       |                      |                        |                        |

◆ : Heavy duty bucket

⊙ : Rock bucket

 Applicable for materials with density of 2000 kgf/m³ (3370 lbf/yd³) or less

 Applicable for materials with density of 1600 kgf/m³ (2700 lbf/yd³) or less

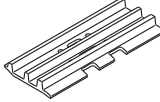
 Applicable for materials with density of 1100 kgf/m³ (1850 lbf/yd³) or less

## 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           |                           | Triple grouser                                                                     |                |               |                |
|-------------------------|------------------|---------------------------|------------------------------------------------------------------------------------|----------------|---------------|----------------|
|                         |                  |                           |  |                |               |                |
| R290LC-9                | Shoe width       | mm (in)                   | 600 (24)                                                                           | 700 (28)       | 800 (32)      | 900 (36)       |
|                         | Operating weight | kg (lb)                   | 29300 (64600)                                                                      | 29880 (65870)  | 30460 (67150) | 31040 (68430)  |
|                         | Ground pressure  | kgf/cm <sup>2</sup> (psi) | 0.57 (8.11)                                                                        | 0.49 (6.97)    | 0.44 (6.26)   | 0.40 (5.69)    |
|                         | Overall width    | mm (ft-in)                | 3200 (10' 6")                                                                      | 3300 (10' 10") | 3400 (11' 1") | 3500 (11' 5")  |
| R290NLC-9               | Shoe width       | mm (in)                   | 600 (24)                                                                           | -              | -             | -              |
|                         | Operating weight | kg (lb)                   | 29100 (64150)                                                                      | -              | -             | -              |
|                         | Ground pressure  | kgf/cm <sup>2</sup> (psi) | 0.56 (7.96)                                                                        | -              | -             | -              |
|                         | Overall width    | mm (ft-in)                | 2990 (9' 10")                                                                      | -              | -             | -              |
| R290LC-9<br>LONG REACH  | Shoe width       | mm (in)                   | -                                                                                  | -              | 800 (32)      | -              |
|                         | Operating weight | kg (lb)                   | -                                                                                  | -              | 31890 (70310) | -              |
|                         | Ground pressure  | kgf/cm <sup>2</sup> (psi) | -                                                                                  | -              | 0.47 (6.68)   | -              |
|                         | Overall width    | mm (ft-in)                | -                                                                                  | -              | 3400 (11' 2") | -              |
| R290LC-9<br>HIGH WALKER | Shoe width       | mm (in)                   | 600 (24)                                                                           | 700 (28)       | 800 (32)      | ★710 (28)      |
|                         | Operating weight | kg (lb)                   | 32140 (70860)                                                                      | 32720 (72140)  | 33300 (73410) | ★33310 (73440) |
|                         | Ground pressure  | kgf/cm <sup>2</sup> (psi) | 0.62 (8.82)                                                                        | 0.54 (7.68)    | 0.48 (6.83)   | ★0.54 (7.68)   |
|                         | Overall width    | mm (ft-in)                | 3470 (11' 5")                                                                      | 3570 (11' 9")  | 3670 (12' 0") | ★3580 (11' 9") |

★ : Double grouser

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

| Item            | Quantity |
|-----------------|----------|
| Carrier rollers | 2 EA     |
| Track rollers   | 9 EA     |
| Track shoes     | 48 EA    |



#### 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 |
|----------------------------------|---------------|----------|
| 600mm triple grouser             | Standard      | A        |
| 700mm triple grouser             | Option        | B        |
| 710mm double grouser             | Option        | B        |
| 800mm triple grouser             | Option        | C        |
| 900mm triple grouser             | Option        | C        |
| 800mm triple grouser(Long reach) | Standard      | C        |

※ **Table 2**

| Category | Applications                                | Precautions                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 QSB6.7 / HYUNDAI HE 6.7         |
| Type                                | 4-cycle turbocharged 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              | 107 × 124 mm (4.21" × 4.88")            |
| Piston displacement                 | 6700 cc (409cu in)                      |
| Compression ratio                   | 17.2 : 1                                |
| Rated gross horse power (SAE J1995) | 227 Hp at 1900 rpm (169 kW at 1900 rpm) |
| Maximum torque                      | 97.0 kgf · m (701 lbf · ft) at 1400 rpm |
| Engine oil quantity                 | 24 l (6.3 U.S. gal)                     |
| Dry weight                          | 556 kg (1226 lb)                        |
| High idling speed                   | 1850 ± 50 rpm                           |
| Low idling speed                    | 800 ± 100 rpm                           |
| Rated fuel consumption              | 166.3 g/Hp · hr at 1900 rpm             |
| Starting motor                      | 24 V-4.5 kW                             |
| Alternator                          | 24 V-50 A                               |
| Battery                             | 2 × 12 V × 160 Ah                       |

### 2) MAIN PUMP

| Item             | Specification                                                           |
|------------------|-------------------------------------------------------------------------|
| Type             | Variable displacement tandem axis piston pumps                          |
| Capacity         | 2 × 140 cc/rev                                                          |
| Maximum pressure | 350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)] |
| Rated oil flow   | 2 × 252 l /min (66.6 U.S. gpm / 55.4 U.K. gpm)                          |

[ ] : 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> (570 psi)          |
| Rated oil flow   | 27 l /min (7.1 U.S. gpm / 5.9 U.K. gpm)   |

### 4) MAIN CONTROL VALVE

| Item                       |        | Specification                                                           |                                    |
|----------------------------|--------|-------------------------------------------------------------------------|------------------------------------|
|                            |        | R290LC-9                                                                | R290LC-9 Long reach                |
| Type                       |        | 10 spools                                                               |                                    |
| Operating method           |        | Hydraulic pilot system                                                  |                                    |
| Main relief valve pressure |        | 350 kgf/cm <sup>2</sup> (4980 psi) [380 kgf/cm <sup>2</sup> (5400 psi)] |                                    |
| Port relief valve pressure | Boom   | 400 kgf/cm <sup>2</sup> (5690 psi)                                      | 400 kgf/cm <sup>2</sup> (5690 psi) |
|                            | Arm    | 400 kgf/cm <sup>2</sup> (5690 psi)                                      | 250 kgf/cm <sup>2</sup> (3560 psi) |
|                            | Bucket | 400 kgf/cm <sup>2</sup> (5690 psi)                                      | 270 kgf/cm <sup>2</sup> (3840 psi) |

[ ]: Power boost

### 5) SWING MOTOR

| Item                   | Specification                                |
|------------------------|----------------------------------------------|
| Type                   | Axial piston motor                           |
| Capacity               | 169.4 cc/rev                                 |
| Relief pressure        | 300 kgf/cm <sup>2</sup> (4270 psi)           |
| Braking system         | Automatic, spring applied hydraulic released |
| Braking torque         | 70 kgf · m (506 lbf · ft)                    |
| Brake release pressure | 26 kgf/cm <sup>2</sup> (370 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> (4980 psi)           |
| Capacity (max / min, -#0306)    | 279.1/155 cc/rev                             |
| Capacity (max / min, #0307-)    | 154.8/88.5 cc/rev                            |
| Reduction gear type             | 3-stage planetary                            |
| Braking system                  | Automatic, spring applied hydraulic released |
| Brake release pressure (-#0306) | 15.7 kgf/cm <sup>2</sup> (223 psi)           |
| Brake release pressure (#0307-) | 9 kgf/cm <sup>2</sup> (128 psi)              |
| Braking torque (-#0306)         | 92 kgf · m (670 lbf · ft)                    |
| Braking torque (#0307-)         | 40 kgf · m (290 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 | 26 kgf/cm <sup>2</sup> (370 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 | ø 140 × ø 100 × 1465 mm |
|                                 | Cushion                     | Extend only             |
| Arm cylinder                    | Bore dia × Rod dia × Stroke | ø 150 × ø 110 × 1765 mm |
|                                 | Cushion                     | Extend and retract      |
| Bucket cylinder                 | Bore dia × Rod dia × Stroke | ø 135 × ø 95 × 1185 mm  |
|                                 | Cushion                     | Extend only             |
| Bucket cylinder<br>(LONG REACH) | Bore dia × Rod dia × Stroke | ø 100 × ø 70 × 870 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     |
|-------------------------|----------|---------------|-------------------------------------|---------------|-------------------|
| R290LC-9                | Standard | 600 mm (24")  | 0.56 kgf/cm <sup>2</sup> (7.97 psi) | 48            | 3200 mm (10' 6")  |
|                         | Option   | 700 mm (28")  | 0.49 kgf/cm <sup>2</sup> (6.97 psi) | 48            | 3300 mm (10' 10") |
|                         |          | 800 mm (32")  | 0.44 kgf/cm <sup>2</sup> (6.26 psi) | 48            | 3400 mm (11' 1")  |
|                         |          | 900 mm (36")  | 0.40 kgf/cm <sup>2</sup> (5.69 psi) | 48            | 3500 mm (11' 5")  |
| R290NLC-9               | Standard | 600 mm (24")  | 0.56 kgf/cm <sup>2</sup> (7.97 psi) | 48            | 2990 mm (9' 10")  |
| R290LC-9<br>LONG REACH  | Standard | 800 mm (32")  | 0.47 kgf/cm <sup>2</sup> (6.68 psi) | 48            | 3400 mm (11' 2")  |
| R290LC-9<br>HIGH WALKER | Standard | 600 mm (24")  | 0.62 kgf/cm <sup>2</sup> (8.82 psi) | 48            | 3470 mm (11' 5")  |
|                         | Option   | 700 mm (28")  | 0.54 kgf/cm <sup>2</sup> (7.68 psi) | 48            | 3570 mm (11' 9")  |
|                         |          | 800 mm (32")  | 0.48 kgf/cm <sup>2</sup> (6.83 psi) | 48            | 3670 mm (12' 0")  |
|                         |          | ★710 mm (28") | 0.54 kgf/cm <sup>2</sup> (7.68 psi) | 48            | 3580 mm (11' 9")  |

★ : Double grouser

## 10) BUCKET

| Item                              |     | Capacity                                      |                                             | Tooth quantity | Width               |                  |
|-----------------------------------|-----|-----------------------------------------------|---------------------------------------------|----------------|---------------------|------------------|
|                                   |     | SAE heaped                                    | CECE heaped                                 |                | Without side cutter | With side cutter |
| R290LC-9<br>R290NLC-9<br>H/WALKER | Std | 1.27 m <sup>3</sup> (1.66 yd <sup>3</sup> )   | 1.10 m <sup>3</sup> (1.44 yd <sup>3</sup> ) | 5              | 1290 mm (50.8")     | 1410 mm (55.5")  |
|                                   | Opt | 0.79 m <sup>3</sup> (1.03 yd <sup>3</sup> )   | 0.70 m <sup>3</sup> (0.92 yd <sup>3</sup> ) | 3              | 890 mm (35.0")      | 1010 mm (39.8")  |
|                                   |     | 1.03 m <sup>3</sup> (1.35 yd <sup>3</sup> )   | 0.90 m <sup>3</sup> (1.18 yd <sup>3</sup> ) | 4              | 1090 mm (42.9")     | 1210 mm (47.6")  |
|                                   |     | ◆ 1.07 m <sup>3</sup> (1.40 yd <sup>3</sup> ) | 0.95 m <sup>3</sup> (1.24 yd <sup>3</sup> ) | 5              | 1150 mm (45.3")     | -                |
|                                   |     | ◆ 1.27 m <sup>3</sup> (1.66 yd <sup>3</sup> ) | 1.10 m <sup>3</sup> (1.44 yd <sup>3</sup> ) | 5              | 1210 mm (47.6")     | -                |
|                                   |     | ◆ 1.46 m <sup>3</sup> (1.91 yd <sup>3</sup> ) | 1.28 m <sup>3</sup> (1.67 yd <sup>3</sup> ) | 5              | 1460 mm (57.5")     | -                |
|                                   |     | ⊙ 1.16 m <sup>3</sup> (1.52 yd <sup>3</sup> ) | 1.00 m <sup>3</sup> (1.05 yd <sup>3</sup> ) | 5              | 1340 mm (52.8")     | -                |
|                                   |     | ⊙ 1.49 m <sup>3</sup> (1.95 yd <sup>3</sup> ) | 1.28 m <sup>3</sup> (1.67 yd <sup>3</sup> ) | 5              | 1620 mm (63.8")     | -                |
|                                   |     | 1.50 m <sup>3</sup> (1.96 yd <sup>3</sup> )   | 1.30 m <sup>3</sup> (1.70 yd <sup>3</sup> ) | 6              | 1490 mm (58.7")     | 1610 mm (63.4")  |
|                                   |     | 1.73 m <sup>3</sup> (2.26 yd <sup>3</sup> )   | 1.50 m <sup>3</sup> (1.96 yd <sup>3</sup> ) | 6              | 1700 mm (66.9")     | 1820 mm (71.7")  |
|                                   |     | 1.85 m <sup>3</sup> (2.42 yd <sup>3</sup> )   | 1.60 m <sup>3</sup> (2.09 yd <sup>3</sup> ) | 5              | 1800 mm (70.9")     | 1920 mm (75.6")  |
| LONG REACH                        | Std | 0.52 m <sup>3</sup> (0.68 yd <sup>3</sup> )   | 0.46 m <sup>3</sup> (0.60 yd <sup>3</sup> ) | 5              | 935 mm (36.8")      | 1035 mm (40.8")  |

◆ : Heavy duty bucket

⊙ : 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) | 30<br>(86) |
| Engine oil pan               | Engine oil                                                  | 24 (6.3)                                     | ★SAE 5W-40                                     |              |             |             |           |            |            |            |
|                              |                                                             |                                              | SAE 30                                         |              |             |             |           |            |            |            |
|                              |                                                             |                                              | SAE 10W                                        |              |             |             |           |            |            |            |
|                              |                                                             |                                              | SAE 10W-30                                     |              |             |             |           |            |            |            |
|                              |                                                             |                                              | SAE 15W-40                                     |              |             |             |           |            |            |            |
| Swing drive                  | Gear oil                                                    | 6.0 (1.6)★ <sup>2</sup><br>11.0 (3.0)        | ★SAE 75W-90                                    |              |             |             |           |            |            |            |
| Final drive                  |                                                             | 9.5×2<br>(-#0317)<br>(2.5×2)                 | SAE 80W-90                                     |              |             |             |           |            |            |            |
|                              |                                                             | 8.0×2<br>(#0318-)<br>(2.1×2)                 |                                                |              |             |             |           |            |            |            |
| Hydraulic tank               | Hydraulic oil                                               | Tank;<br>190 (50)<br><br>System;<br>330 (87) | ★ISO VG 15                                     |              |             |             |           |            |            |            |
|                              |                                                             |                                              | ISO VG 32                                      |              |             |             |           |            |            |            |
|                              |                                                             |                                              | ISO VG 46                                      |              |             |             |           |            |            |            |
|                              |                                                             |                                              | ISO VG 68                                      |              |             |             |           |            |            |            |
| Fuel tank                    | Diesel fuel                                                 | 500 (132)                                    | ★ASTM D975 NO.1                                |              |             |             |           |            |            |            |
|                              |                                                             |                                              | ASTM D975 NO.2                                 |              |             |             |           |            |            |            |
| Fitting<br>(grease nipple)   | Grease                                                      | As required                                  | ★NLGI NO.1                                     |              |             |             |           |            |            |            |
|                              |                                                             |                                              | NLGI NO.2                                      |              |             |             |           |            |            |            |
| Radiator<br>(reservoir tank) | Mixture of<br>antifreeze<br>and soft<br>water★ <sup>1</sup> | 35 (9.2)                                     | 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

★<sup>1</sup> : Soft water

City water or distilled water

★<sup>2</sup> : Service when the grease  
inlet exists on the equipment