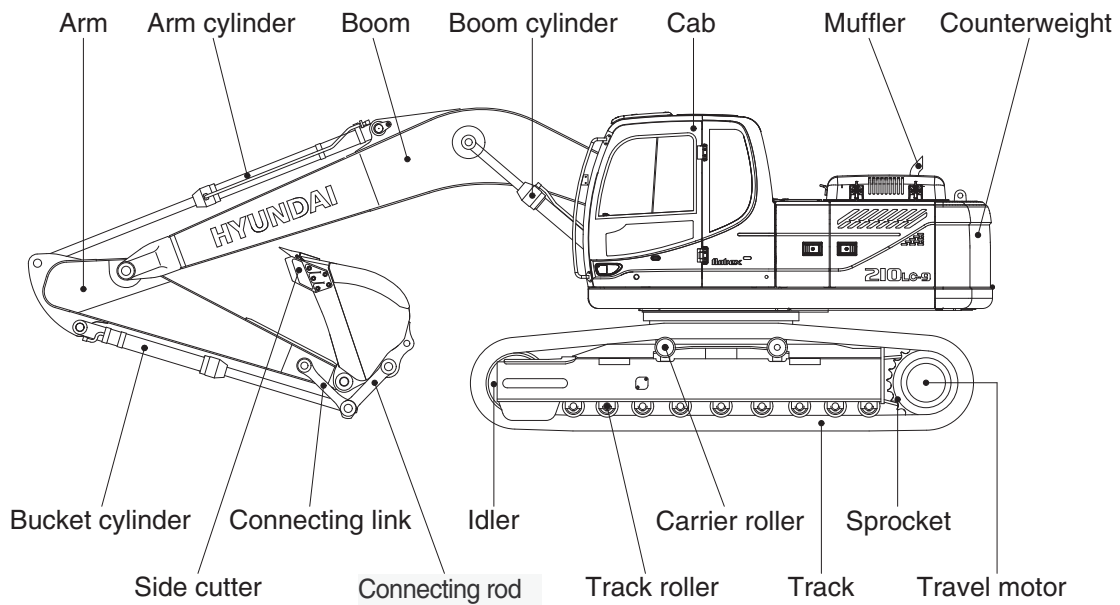
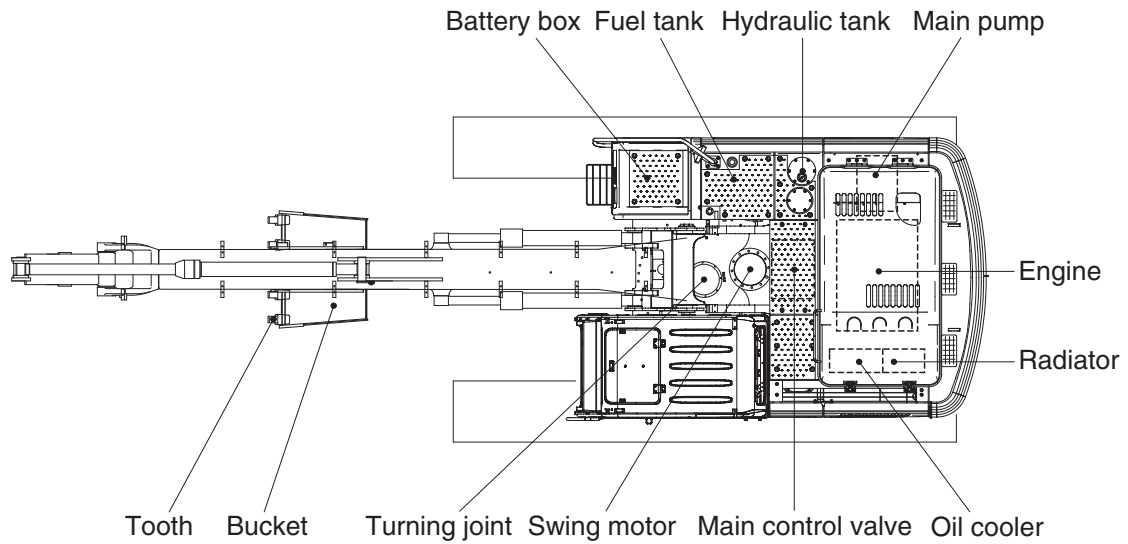


SPECIFICATIONS

1. MAJOR COMPONENT

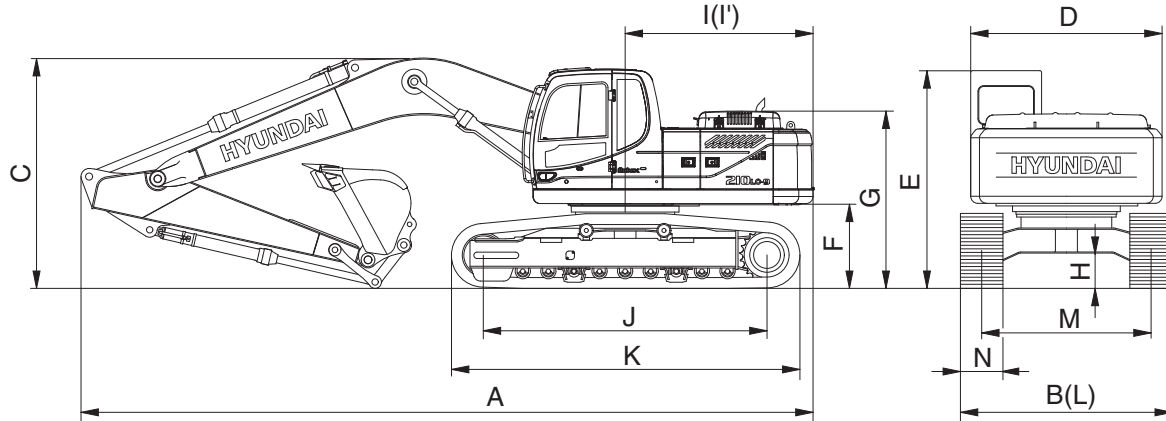


21092SP01

2. SPECIFICATIONS

1) R210LC-9

- 5.68 m (18' 8") BOOM and 2.92 m (9' 7") ARM

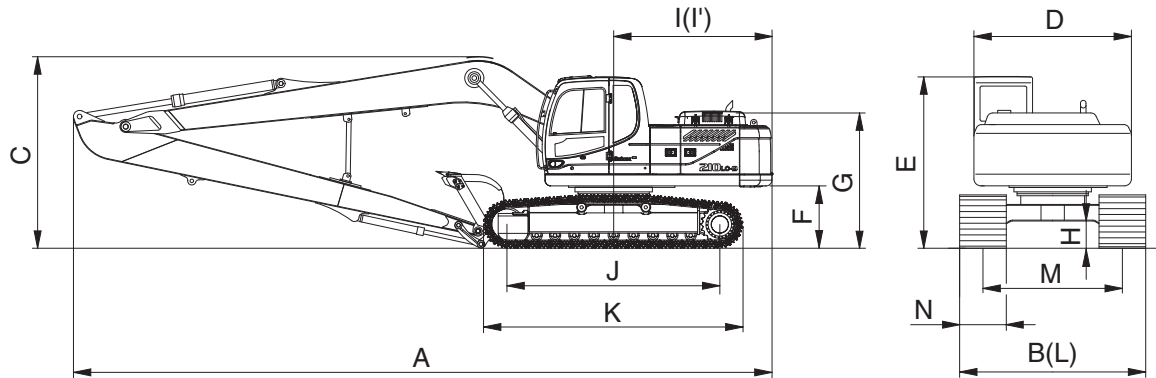


21092SP02

| Description | | Unit | Specification | |
|--|----|-----------------------------------|----------------|-------------------|
| Operating weight | | kg (lb) | 21900 (48280) | |
| Bucket capacity (SAE heaped), standard | | m ³ (yd ³) | 0.92 (1.20) | |
| Overall length | A | mm (ft-in) | 9530 (31' 3") | |
| Overall width, with 600mm shoe | B | | 2990 (9' 10") | |
| Overall height | C | | 3030 (9' 11") | |
| Superstructure width | D | | 2740 (9' 0") | |
| Overall height of cab | E | | 2920 (9' 7") | |
| Ground clearance of counterweight | F | | 1060 (3' 6") | |
| Engine cover height | G | | 2320 (7' 7") | |
| Minimum ground clearance | H | | 480 (1' 7") | |
| Rear-end distance | I | | 2770 (9' 1") | |
| Rear-end swing radius | I' | | 2840 (9' 4") | |
| Distance between tumbler | J | | 3650 (12' 0") | |
| Undercarriage length | K | | 4440 (14' 7") | |
| 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) | 3.4/5.3 (2.1/3.3) |
| Swing speed | | | rpm | 12.0 |
| Gradeability | | Degree (%) | 35 (70) | |
| Ground pressure (600 mm shoe) | | kgf/cm ² (psi) | 0.46 (6.54) | |
| Max traction force | | kg (lb) | 21100 (46500) | |

2) R210LC-9 LONG REACH

- 8.2 m (26' 11") BOOM and 6.3 m (20' 8") ARM

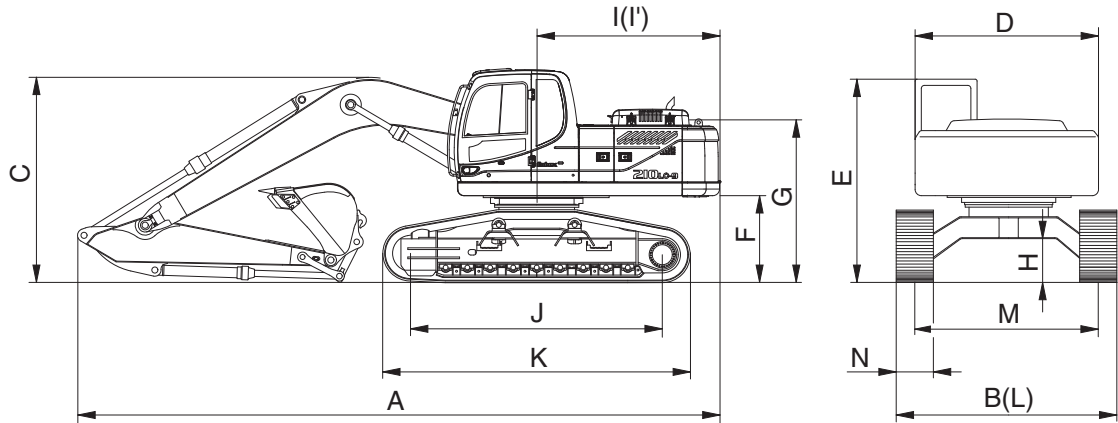


21092SP06

| Description | | Unit | Specification | |
|--|----|-----------------------------------|----------------|-------------------|
| Operating weight | | kg (lb) | 24360 (53700) | |
| Bucket capacity (SAE heaped), standard | | m ³ (yd ³) | 0.52 (0.68) | |
| Overall length | A | mm (ft-in) | 12030 (39' 6") | |
| Overall width, with 800 mm shoe | B | | 3190 (10' 6") | |
| Overall height | C | | 3280 (10' 9") | |
| Superstructure width | D | | 2740 (9' 0") | |
| Overall height of cab | E | | 2920 (9' 7") | |
| Ground clearance of counterweight | F | | 1060 (3' 6") | |
| Engine cover height | G | | 2320 (7' 7") | |
| Minimum ground clearance | H | | 480 (1' 7") | |
| Rear-end distance | I | | 2770 (9' 1") | |
| Rear-end swing radius | I' | | 2840 (9' 4") | |
| Distance between tumbler | J | | 3650 (12' 0") | |
| Undercarriage length | K | | 4440 (14' 7") | |
| Undercarriage width | L | | 3190 (10' 6") | |
| Track gauge | M | | 2390 (7' 10") | |
| Track shoe width, standard | N | | 800 (32") | |
| Travel speed (low/high) | | | km/hr (mph) | 3.4/5.3 (2.1/3.3) |
| Swing speed | | | rpm | 12.0 |
| Gradeability | | Degree (%) | 35 (70) | |
| Ground pressure (800 mm shoe) | | kgf/cm ² (psi) | 0.42 (5.97) | |
| Max traction force | | kg (lb) | 21100 (46500) | |

3) R210LC-9 HIGH WALKER

- 5.68 m (18' 8") BOOM and 2.92 m (9' 7") ARM



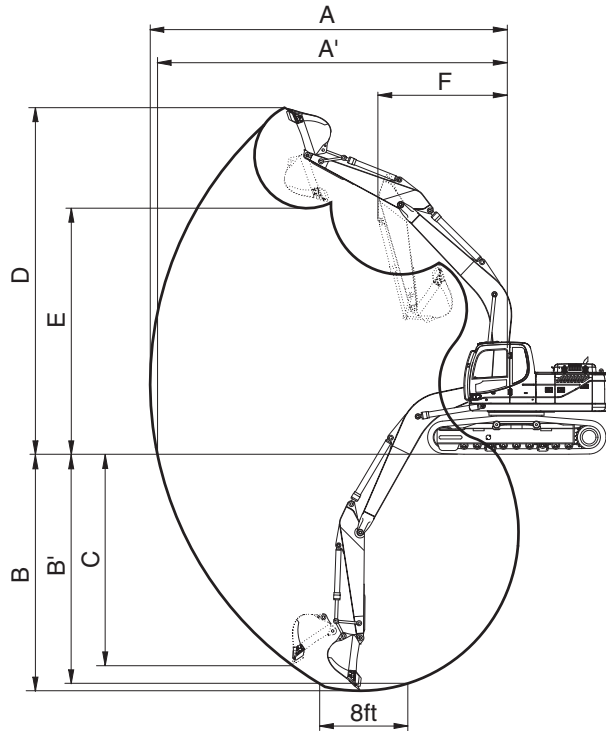
21092SP07

| Description | Unit | Specification |
|--|-----------------------------------|-------------------|
| Operating weight | kg (lb) | 23160 (51060) |
| Bucket capacity (SAE heaped), standard | m ³ (yd ³) | 0.92 (1.20) |
| Overall length | A | 9470 (31' 1") |
| Overall width, with 600 mm shoe | B | 3395 (11' 2") |
| Overall height | C | 3060 (10' 0") |
| Superstructure width | D | 2740 (9' 0") |
| Overall height of cab | E | 3100 (10' 2") |
| Ground clearance of counterweight | F | 1240 (4' 1") |
| Engine cover height | G | 2500 (8' 2") |
| Minimum ground clearance | H | 660 (2' 2") |
| Rear-end distance | I | 2770 (9' 1") |
| Rear-end swing radius | I' | 2840 (9' 4") |
| Distance between tumbler | J | 3650 (12' 0") |
| Undercarriage length | K | 4440 (14' 7") |
| Undercarriage width | L | 3395 (11' 2") |
| Track gauge | M | 2795 (9' 2") |
| Track shoe width, standard | N | 600 (24") |
| Travel speed (low/high) | km/hr (mph) | 3.4/5.3 (2.1/3.3) |
| Swing speed | rpm | 12.0 |
| Gradeability | Degree (%) | 35 (70) |
| Ground pressure (600 mm shoe) | kgf/cm ² (psi) | 0.49 (6.97) |
| Max traction force | kg (lb) | 21100 (46500) |

3. WORKING RANGE

1) R210LC-9

· 5.68 m (18' 8") BOOM



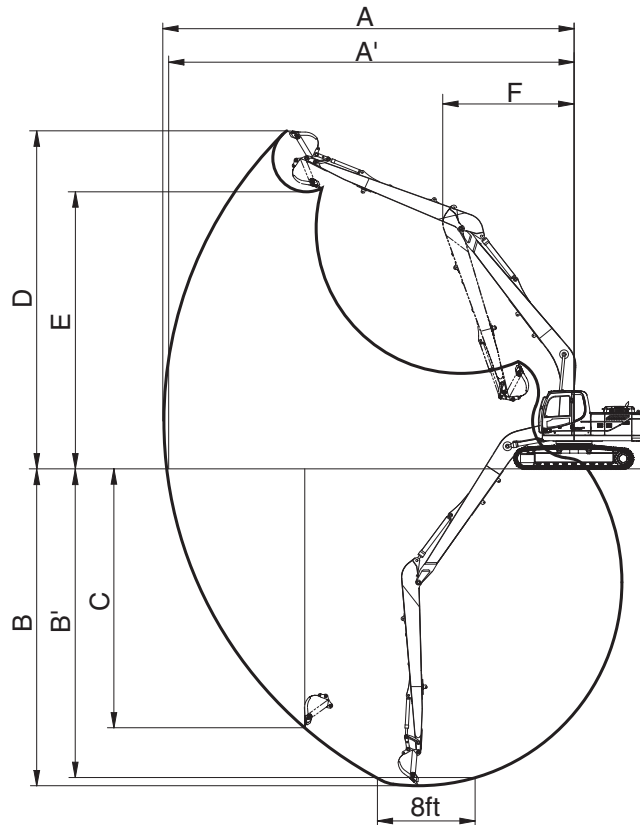
21092SP03

| Description | | 2.0 m (6' 7") Arm | 2.40 m (7' 10") Arm | 2.92 m (9' 7") Arm | 3.90 m (12' 10") Arm |
|---------------------------------|-----|-------------------|---------------------|--------------------|----------------------|
| Max digging reach | A | 9140 mm (30' 0") | 9500 mm (31' 2") | 9980 mm (32' 9") | 10910 mm (35' 10") |
| Max digging reach on ground | A' | 8960 mm (29' 5") | 9330 mm (30' 7") | 9820 mm (32' 3") | 10770 mm (35' 4") |
| Max digging depth | B | 5820 mm (19' 1") | 6220 mm (20' 5") | 6730 mm (22' 1") | 7720 mm (25' 4") |
| Max digging depth (8 ft level) | B' | 5580 mm (18' 4") | 6010 mm (19' 9") | 6560 mm (21' 6") | 7580 mm (24' 10") |
| Max vertical wall digging depth | C | 5280 mm (17' 4") | 5720 mm (18' 9") | 6280 mm (20' 7") | 7240 mm (23' 9") |
| Max digging height | D | 9140 mm (30' 0") | 9340 mm (30' 8") | 9600 mm (31' 6") | 10110 mm (33' 2") |
| Max dumping height | E | 6330 mm (20' 9") | 6520 mm (21' 5") | 6780 mm (22' 3") | 7290 mm (23' 11") |
| Min swing radius | F | 3750 mm (12' 4") | 3740 mm (12' 3") | 3740 mm (12' 3") | 3650 mm (11' 12") |
| Bucket digging force | SAE | 133.4 [144.8] kN | 133.4 [144.8] kN | 133.4 [144.8] kN | 133.4 [144.8] kN |
| | | 13600 [14770] kgf | 13600 [14770] kgf | 13600 [14770] kgf | 13600 [14770] kgf |
| | | 29980 [32550] lbf | 29980 [32550] lbf | 29980 [32550] lbf | 29980 [32550] lbf |
| | ISO | 152.0 [165.0] kN | 152.0 [165.0] kN | 152.0 [165.0] kN | 152.0 [165.0] kN |
| | | 15500 [16830] kgf | 15500 [16830] kgf | 15500 [16830] kgf | 15500 [16830] kgf |
| | | 34170 [37100] lbf | 34170 [37100] lbf | 34170 [37100] lbf | 34170 [37100] lbf |
| Arm digging force | SAE | 144.2 [156.5] kN | 119.6 [129.9] kN | 102.0 [110.7] kN | 84.3 [91.6] kN |
| | | 14700 [15960] kgf | 12200 [13250] kgf | 10400 [11290] kgf | 8600 [9340] kgf |
| | | 32410 [35190] lbf | 26900 [29210] lbf | 22930 [24900] lbf | 18960 [20590] lbf |
| | ISO | 151.0 [164.0] kN | 125.5 [136.3] kN | 106.9 [116.1] kN | 87.3 [94.8] kN |
| | | 15400 [16720] kgf | 12800 [13900] kgf | 10900 [11830] kgf | 8900 [9660] kgf |
| | | 33950 [36860] lbf | 28220 [30640] lbf | 24030 [26090] lbf | 19620 [21300] lbf |

[] : Power boost

2) R210LC-9 LONG REACH

· 8.2 m (26' 11") BOOM

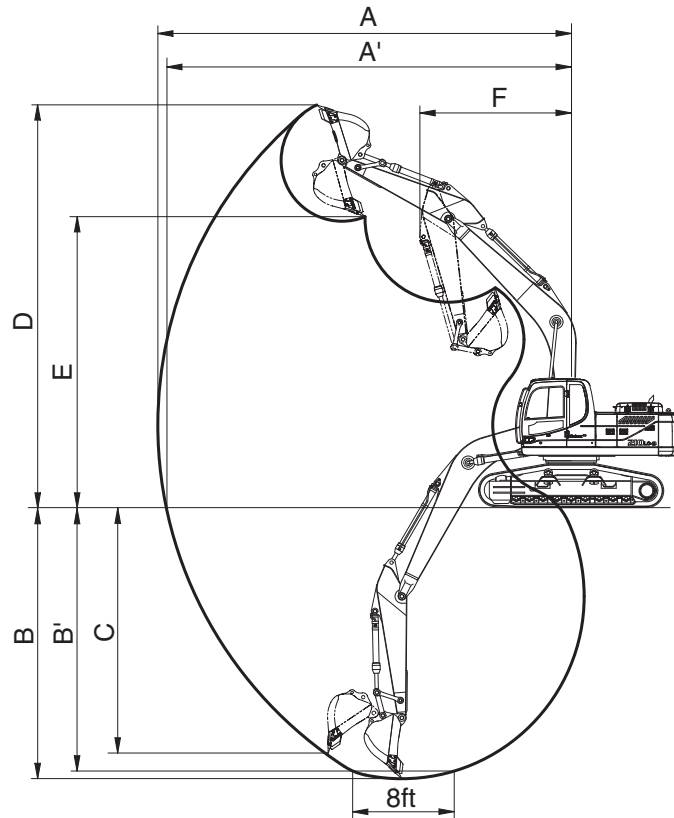


21092SP08

| Description | | 6.3 m (20' 8") Arm | |
|---------------------------------|-----|--------------------|--|
| Max digging reach | A | 15220 (50' 0") | |
| Max digging reach on ground | A' | 15120 (49' 7") | |
| Max digging depth | B | 11760 (38' 7") | |
| Max digging depth (8 ft level) | B' | 11650 (38' 3") | |
| Max vertical wall digging depth | C | 9610 (31' 6") | |
| Max digging height | D | 12550 (41' 2") | |
| Max dumping height | E | 10280 (33' 8") | |
| Min swing radius | F | 4870 (16' 0") | |
| Bucket digging force | SAE | 72.6 kN | |
| | | 7400 kgf | |
| | | 16310 lbf | |
| | ISO | 83.4 kN | |
| | | 8500 kgf | |
| | | 18740 lbf | |
| Arm crowd force | SAE | 49.0 kN | |
| | | 5000 kgf | |
| | | 11020 lbf | |
| | ISO | 50.0 kN | |
| | | 5100 kgf | |
| | | 11240 lbf | |

3) R210LC-9 HIGH WALKER

· 5.68 m (18' 8") BOOM



21092SP09

| Description | | 2.0 m (6' 7") Arm | 2.40 m (7' 10") Arm | 2.92 m (9' 7") Arm | 3.90 m (12'10") Arm |
|---------------------------------|-----|-------------------|---------------------|--------------------|---------------------|
| Max digging reach | A | 9140 mm (30' 0") | 9500 mm (31' 2") | 9980 mm (32' 9") | 10910 mm (35'10") |
| Max digging reach on ground | A' | 8920 mm (29' 3") | 9290 mm (30' 6") | 9820 mm (32' 3") | 10730 mm (35' 2") |
| Max digging depth | B | 5630 mm (18' 6") | 6010 mm (19' 9") | 6550 mm (21' 6") | 7530 mm (24' 8") |
| Max digging depth (8 ft level) | B' | 5390 mm (17' 8") | 5820 mm (19' 1") | 6380 mm (20'11") | 7390 mm (24' 3") |
| Max vertical wall digging depth | C | 5090 mm (16' 8") | 5630 mm (18' 6") | 6100 mm (20' 0") | 7050 mm (23' 1") |
| Max digging height | D | 9330 mm (30' 7") | 9530 mm (31' 3") | 9780 mm (32' 1") | 10300 mm (33' 9") |
| Max dumping height | E | 6520 mm (21' 5") | 6710 mm (22' 0") | 6960 mm (22'10") | 7480 mm (24' 6") |
| Min swing radius | F | 3750 mm (12' 4") | 3740 mm (12' 3") | 3740 mm (12' 3") | 3650 mm (11'12") |
| Bucket digging force | SAE | 133.4 [144.8] kN | 133.4 [144.8] kN | 133.4 [144.8] kN | 133.4 [144.8] kN |
| | | 13600 [14770] kgf | 13600 [14770] kgf | 13600 [14770] kgf | 13600 [14770] kgf |
| | | 29980 [32550] lbf | 29980 [32550] lbf | 29980 [32550] lbf | 29980 [32550] lbf |
| | ISO | 152.0 [165.0] kN | 152.0 [165.0] kN | 152.0 [165.0] kN | 152.0 [165.0] kN |
| | | 15500 [16830] kgf | 15500 [16830] kgf | 15500 [16830] kgf | 15500 [16830] kgf |
| | | 34170 [37100] lbf | 34170 [37100] lbf | 34170 [37100] lbf | 34170 [37100] lbf |
| Arm crowd force | SAE | 144.2 [156.5] kN | 119.6 [129.9] kN | 102.0 [110.7] kN | 84.3 [91.6] kN |
| | | 14700 [15960] kgf | 12200 [13250] kgf | 10400 [11290] kgf | 8600 [9340] kgf |
| | | 32410 [35190] lbf | 26900 [29210] lbf | 22930 [24900] lbf | 18960 [20590] lbf |
| | ISO | 151.0 [164.0] kN | 125.5 [136.3] kN | 106.9 [116.1] kN | 87.3 [94.8] kN |
| | | 15400 [16720] kgf | 12800 [13900] kgf | 10900 [11830] kgf | 8900 [9660] kgf |
| | | 33950 [36860] lbf | 28220 [30640] lbf | 24030 [26090] lbf | 19620 [21300] lbf |

[] : Power boost

4. WEIGHT

1) R210LC-9

| Item | R210LC-9 | |
|--|----------|-------|
| | kg | lb |
| Upperstructure assembly | 9400 | 20720 |
| Main frame weld assembly | 1920 | 4230 |
| Engine assembly | 560 | 1240 |
| Main pump assembly | 140 | 310 |
| Main control valve assembly | 220 | 485 |
| Swing motor assembly | 240 | 530 |
| Hydraulic oil tank assembly | 240 | 530 |
| Fuel tank assembly | 195 | 430 |
| Counterweight | 3800 | 8380 |
| Cab assembly | 500 | 1100 |
| Lower chassis assembly | 8700 | 19180 |
| Track frame weld assembly | 2720 | 6000 |
| Swing bearing | 290 | 640 |
| Travel motor assembly | 300 | 660 |
| Turning joint | 55 | 120 |
| Track recoil spring | 140 | 310 |
| Idler | 170 | 370 |
| Carrier roller | 20 | 45 |
| Track roller | 40 | 90 |
| Track-chain assembly (600 mm standard triple grouser shoe) | 1350 | 2980 |
| Front attachment assembly (5.68 m boom, 2.92 m arm, 0.92 m ³ SAE heaped bucket) | 4030 | 8880 |
| 5.68 m boom assembly | 1520 | 3350 |
| 2.92 m arm assembly | 750 | 1650 |
| 0.92 m ³ SAE heaped bucket | 765 | 1690 |
| Boom cylinder assembly | 180 | 400 |
| Arm cylinder assembly | 290 | 640 |
| Bucket cylinder assembly | 175 | 390 |
| Bucket control link assembly | 170 | 370 |

2) R210LC-9 LONG REACH

| Item | R210LC-9 LONG REACH | |
|--|---------------------|-------|
| | kg | lb |
| Upperstructure assembly | 9400 | 20720 |
| Main frame weld assembly | 1920 | 4230 |
| Engine assembly | 560 | 1240 |
| Main pump assembly | 140 | 310 |
| Main control valve assembly | 220 | 485 |
| Swing motor assembly | 240 | 530 |
| Hydraulic oil tank assembly | 240 | 530 |
| Fuel tank assembly | 195 | 430 |
| Counterweight | 5300 | 11680 |
| Cab assembly | 500 | 1100 |
| Lower chassis assembly | 8700 | 19180 |
| Track frame weld assembly | 2720 | 6000 |
| Swing bearing | 290 | 640 |
| Travel motor assembly | 300 | 660 |
| Turning joint | 55 | 120 |
| Track recoil spring | 140 | 310 |
| Idler | 170 | 370 |
| Carrier roller | 20 | 45 |
| Track roller | 40 | 90 |
| Track-chain assembly (800 mm standard triple grouser shoe) | 1660 | 3660 |
| Front attachment assembly (8.2 m boom, 6.3 m arm, 0.52 m ³ SAE heaped bucket) | 4600 | 10140 |
| 8.2 m boom assembly | 2105 | 4640 |
| 6.3 m arm assembly | 1100 | 2430 |
| 0.52 m ³ SAE heaped bucket | 465 | 1030 |
| Boom cylinder assembly | 180 | 400 |
| Arm cylinder assembly | 270 | 600 |
| Bucket cylinder assembly | 130 | 290 |
| Bucket control rod assembly | 170 | 370 |

3) R210LC-9 HIGH WALKER











| Item | R210LC-9 HIGH WALKER | |
|--|----------------------|-------|
| | kg | lb |
| Upperstructure assembly | 9430 | 20790 |
| Main frame weld assembly | 1950 | 4300 |
| Engine assembly | 560 | 1240 |
| Main pump assembly | 140 | 310 |
| Main control valve assembly | 220 | 485 |
| Swing motor assembly | 240 | 530 |
| Hydraulic oil tank assembly | 240 | 530 |
| Fuel tank assembly | 195 | 430 |
| Counterweight | 3800 | 8380 |
| Cab assembly | 500 | 1100 |
| Lower chassis assembly | 9015 | 19870 |
| Track frame weld assembly | 3730 | 8220 |
| Swing bearing | 290 | 640 |
| Travel motor assembly | 300 | 660 |
| Turning joint | 55 | 120 |
| Track recoil spring | 140 | 310 |
| Idler | 170 | 370 |
| Carrier roller | 20 | 45 |
| Track roller | 40 | 90 |
| Track-chain assembly (600 mm standard triple grouser shoe) | 1350 | 2980 |
| Front attachment assembly (5.68 m boom, 2.92 m arm, 0.92 m ³ SAE heaped bucket) | 4030 | 8880 |
| 5.68 m boom assembly | 1520 | 3350 |
| 2.92 m arm assembly | 750 | 1650 |
| 0.92 m ³ SAE heaped bucket | 765 | 1690 |
| Boom cylinder assembly | 180 | 400 |
| Arm cylinder assembly | 290 | 640 |
| Bucket cylinder assembly | 175 | 390 |
| Bucket control rod assembly | 170 | 370 |

5. LIFTING CAPACITIES

1) ROBEX 210LC-9













(1) 5.68 m (18' 8") boom, 2.00 m (6' 7") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

-  : 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 lb | | | | | | | | | *4010 *8840 | *4010 *8840 | 6.65 (21.8) |
| 6.0 m (20 ft) | kg lb | | | | | *4440 *9790 | *4440 *9790 | | | *4060 *8950 | 3040 6700 | 7.78 (25.5) |
| 4.5 m (15 ft) | kg lb | | | *5730 *12630 | *5730 *12630 | *4860 *10710 | 4630 10210 | | | *4190 *9240 | 2540 5600 | 8.43 (27.7) |
| 3.0 m (10 ft) | kg lb | | | *7460 *16450 | 6840 15080 | *5610 *12370 | 4370 9630 | *4830 *10650 | 3000 6610 | 4040 8910 | 2310 5090 | 8.74 (28.7) |
| 1.5 m (5 ft) | kg lb | | | *8990 *19820 | 6320 13930 | *6390 *14090 | 4120 9080 | 5060 11160 | 2890 6370 | 3990 8800 | 2260 4980 | 8.73 (28.6) |
| Ground Line | kg lb | | | *9690 *21360 | 6090 13430 | *6910 *15230 | 3950 8710 | 4980 10980 | 2810 6190 | 4200 9260 | 2380 5250 | 8.42 (27.6) |
| -1.5 m (-5 ft) | kg lb | *13990 *30840 | 12260 27030 | *9630 *21230 | 6070 13380 | *6990 *15410 | 3910 8620 | | | 4820 10630 | 2750 6060 | 7.76 (25.5) |
| -3.0 m (-10 ft) | kg lb | *12500 *27560 | 12500 27560 | *8820 *19440 | 6180 13620 | *6350 *14000 | 3990 8800 | | | *4850 *10690 | 3650 8050 | 6.61 (21.7) |
| -4.5 m (-15 ft) | kg lb | *9460 *20860 | *9460 *20860 | | | | | | | | | |

- 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) 5.68 m (18' 8") boom, 2.40 m (7' 10") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

| 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 (20ft) | | 7.5 m (25ft) | | Capacity | | Reach | | |
| | |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) | | |
| 7.5 m (25 ft) | kg lb | | | | | | | | | | | | | *3700 *8160 | 3640 8020 | 7.15 (23.5) |
| 6.0 m (20 ft) | kg lb | | | | | | | *4010 *8840 | *4010 *8840 | | | | | *3780 *8330 | 2760 6080 | 8.20 (26.9) |
| 4.5 m (15 ft) | kg lb | | | | | | | *4490 *9900 | *4490 *9900 | *4230 *9330 | 3130 6900 | | | *3900 *8600 | 2340 5160 | 8.82 (28.9) |
| 3.0 m (10 ft) | kg lb | | | | | *6900 *15210 | *6900 *15210 | *5280 *11640 | 4400 9700 | *4560 *10050 | 3010 6640 | | | 3760 8290 | 2130 4700 | 9.11 (29.9) |
| 1.5 m (5 ft) | kg lb | | | | | *8560 *18870 | 6380 14070 | *6120 *13490 | 4130 9110 | *4970 *10960 | 2880 6350 | | | 3710 8180 | 2080 4590 | 9.10 (29.9) |
| Ground Line | kg lb | | | *8790 *19380 | *8790 *19380 | *9490 *20920 | 6080 13400 | *6740 *14860 | 3930 8660 | 4950 10910 | 2780 6130 | | | 3890 8580 | 2180 4810 | 8.81 (28.9) |
| -1.5 m (-5 ft) | kg lb | *9760 *21520 | *9760 *21520 | *13510 *29780 | 12060 26590 | *9650 *21270 | 6000 13230 | *6960 *15340 | 3850 8490 | | | | | 4390 9680 | 2480 5470 | 8.18 (26.8) |
| -3.0 m (-10 ft) | kg lb | *14150 *31200 | *14150 *31200 | *13240 *29190 | 12280 27070 | *9090 *20040 | 6080 13400 | *6590 *14530 | 3900 8600 | | | | | *4700 *10360 | 3190 7030 | 7.12 (23.4) |
| -4.5 m (-15 ft) | kg lb | | | *10630 *23440 | *10630 *23440 | *7400 *16310 | 6330 13960 | | | | | | | | | |

(3) 5.68 m (18' 8") boom, 2.92 m (9' 7") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

| 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 lb | | | | | | | | | | | | | *3360 *7410 | 3150 6940 | 7.78 (25.5) |
| 6.0 m (20 ft) | kg lb | | | | | | | | | *2340 *5160 | *2340 *5160 | | | *3450 *7610 | 2460 5420 | 8.74 (28.7) |
| 4.5 m (15 ft) | kg lb | | | | | | | *4010 *8840 | *4010 *8840 | *3830 *8440 | 3180 7010 | | | *3580 *7890 | 2100 4630 | 9.32 (30.6) |
| 3.0 m (10 ft) | kg lb | | | *9780 *21560 | *9780 *21560 | *6150 *13560 | *6150 *13560 | *4840 *10670 | 4460 9830 | *4230 *9330 | 3040 6700 | | | 3440 7580 | 1930 4250 | 9.59 (31.5) |
| 1.5 m (5 ft) | kg lb | | | *8810 *19420 | *8810 *19420 | *7960 *17550 | 6490 14310 | *5750 *12680 | 4160 9170 | *4710 *10380 | 2880 6350 | | | 3390 7470 | 1880 4140 | 9.59 (31.5) |
| Ground Line | kg lb | | | *9550 *21050 | *9550 *21050 | *9160 *20190 | 6090 13430 | *6490 *14310 | 3920 8640 | 4930 10870 | 2750 6060 | | | 3520 7760 | 1950 4300 | 9.31 (30.5) |
| -1.5 m (-5 ft) | kg lb | *8810 *19420 | *8810 *19420 | *12610 *27800 | 11870 26170 | *9600 *21160 | 5940 13100 | *6870 *15150 | 3800 8380 | 4860 10710 | 2690 5930 | | | 3920 8640 | 2190 4830 | 8.72 (28.6) |
| -3.0 m (-10 ft) | kg lb | *12190 *26870 | *12190 *26870 | *13980 *30820 | 12040 26540 | *9320 *20550 | 5960 13140 | *6740 *14860 | 3800 8380 | | | | | *4460 *9830 | 2710 5970 | 7.75 (25.4) |
| -4.5 m (-15 ft) | kg lb | | | *11860 *26150 | *11860 *26150 | *8120 *17900 | 6140 13540 | | | | | | | *4330 *9550 | 4080 8990 | 6.16 (20.2) |

















(4) 5.68 m (18' 8") boom, 3.90 m (12' 10") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

| 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) | |
| 9.0 m (30 ft) | kg lb | | | | | | | | | | | | | | *2740 *6040 | *2740 *6040 | 7.66 (25.1) |
| 7.5 m (25 ft) | kg lb | | | | | | | | | *1980 *4370 | *1980 *4370 | | | *2800 *6170 | 2420 5340 | 8.94 (29.3) | |
| 6.0 m (20 ft) | kg lb | | | | | | | | | *2840 *6260 | *2840 *6260 | | | *2900 *6390 | 1960 4320 | 9.77 (32.1) | |
| 4.5 m (15 ft) | kg lb | | | | | | | | | *3090 *6810 | *3090 *6810 | *2040 *4500 | *2040 *4500 | *3020 *6660 | 1700 3750 | 10.28 (33.7) | |
| 3.0 m (10 ft) | kg lb | | | | | | | *3940 *8690 | *3940 *8690 | *3560 *7850 | 3080 6790 | *2910 *6420 | 2140 4720 | 2890 6370 | 1560 3440 | 10.52 (34.5) | |
| 1.5 m (5 ft) | kg lb | | | *11130 *24540 | *11130 *24540 | *6640 *14640 | *6640 *14640 | *4950 *10910 | 4220 9300 | *4120 *9080 | 2880 6350 | *3450 *7610 | 2040 4500 | 2840 6260 | 1510 3330 | 10.52 (34.5) | |
| Ground Line | kg lb | *5260 *11600 | *5260 *11600 | *10600 *23370 | *10600 *23370 | *8250 *18190 | 6130 13510 | *5860 *12920 | 3910 8620 | *4650 *10250 | 2710 5970 | *3530 *7780 | 1950 4300 | 2930 6460 | 1550 3420 | 10.27 (33.7) | |
| -1.5 m (-5 ft) | kg lb | *7500 *16530 | *7500 *16530 | *11650 *25680 | 11540 25440 | *9150 *20170 | 5810 12810 | *6490 *14310 | 3700 8160 | 4750 10470 | 2590 5710 | *2370 *5220 | 1900 4190 | 3180 7010 | 1700 3750 | 9.75 (32.0) | |
| -3.0 m (-10 ft) | kg lb | *9990 *22020 | *9990 *22020 | *14350 *31640 | 11540 25440 | *9360 *20640 | 5720 12610 | *6700 *14770 | 3620 7980 | 4710 10380 | 2550 5620 | | | 3710 8180 | 2030 4480 | 8.91 (29.2) | |
| -4.5 m (-15 ft) | kg lb | *12960 *28570 | *12960 *28570 | *13360 *29450 | 11780 25970 | *8830 *19470 | 5800 12790 | *6340 *13980 | 3670 8090 | | | | | *4030 *8880 | 2730 6020 | 7.62 (25.0) | |
| -6.0 m (-20 ft) | kg lb | | | *10610 *23390 | *10610 *23390 | *7100 *15650 | 6080 13400 | | | | | | | | | | |

2) R210LC-9 LONG REACH

(1) 8.2 m (26' 11") boom, 6.3 m (20' 8") arm equipped with 0.52 m³ (0.68yd³) (SAE heaped) bucket, 800 mm (32") triple grouser shoe.

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











| Load point height | | Load radius | | | | | | | | | | | | | | At max. reach | | | |
|-------------------|----|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|--------|--------|
| | | 4.5 m (15.0 ft) | | 6.0 m (20.0 ft) | | 7.5 m (25.0 ft) | | 9.0 m (30.0 ft) | | 10.5 m (35.0 ft) | | 12.0 m (40.0 ft) | | 13.5 m (45.0 ft) | | Capacity | | Reach | |
| | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) | |
| 10.5 m | kg | | | | | | | | | | | | | | | | *1480 | *1480 | 12.11 |
| 35.0 ft | lb | | | | | | | | | | | | | | | | *3260 | *3260 | (39.7) |
| 9.0 m | kg | | | | | | | | | | | | | | | | *1510 | *1510 | 13.11 |
| 30.0 ft | lb | | | | | | | | | | | *930 | *930 | | | | *3330 | *3330 | (43.0) |
| 7.5 m | kg | | | | | | | | | | | *1550 | *1550 | | | | *1550 | 1320 | 13.84 |
| 25.0 ft | lb | | | | | | | | | | | *3420 | *3420 | | | | *3420 | 2910 | (45.4) |
| 6.0 m | kg | | | | | | | | | *1600 | *1600 | *1610 | *1610 | | | | *1600 | 1160 | 14.37 |
| 20.0 ft | lb | | | | | | | | | *3530 | *3530 | *3550 | *3550 | | | | *3530 | 2560 | (47.1) |
| 4.5 m | kg | | | | | | | | | *1790 | *1790 | *1730 | 1720 | *1260 | *1260 | | *1660 | 1050 | 14.72 |
| 15.0 ft | lb | | | | | | | | | *3950 | *3950 | *3810 | 3790 | *2780 | *2780 | | *3660 | 2310 | (48.3) |
| 3.0 m | kg | | | | | *2520 | *2520 | *2220 | *2220 | *2020 | *2020 | *1880 | 1630 | *1590 | 1220 | | *1720 | 980 | 14.89 |
| 10.0 ft | lb | | | | | *5560 | *5560 | *4890 | *4890 | *4450 | *4450 | *4140 | 3590 | *3510 | 2690 | | *3790 | 2160 | (48.9) |
| 1.5 m | kg | *5620 | *5620 | *3940 | *3940 | *3090 | *3090 | *2590 | *2590 | *2270 | 2000 | *2050 | 1530 | *1790 | 1170 | | *1800 | 940 | 14.90 |
| 5.0 ft | lb | *12390 | *12390 | *8690 | *8690 | *6810 | *6810 | *5710 | *5710 | *5000 | 4410 | *4520 | 3370 | *3950 | 2580 | | *3970 | 2070 | (48.9) |
| Ground /line | kg | *6990 | 6720 | *4770 | 4490 | *3620 | 3240 | *2950 | 2430 | *2510 | 1860 | *2220 | 1440 | *1820 | 1110 | | 1880 | 930 | 14.75 |
| | lb | *15410 | 14820 | *10520 | 9900 | *7980 | 7140 | *6500 | 5360 | *5530 | 4100 | *4890 | 3170 | *4010 | 2450 | | 4140 | 2050 | (48.4) |
| -1.5 m | kg | *7830 | 6210 | *5390 | 4120 | *4060 | 2990 | *3260 | 2260 | *2740 | 1740 | *2380 | 1360 | *1570 | 1070 | | 1930 | 960 | 14.42 |
| -5.0 ft | lb | *17260 | 13690 | *11880 | 9080 | *8950 | 6590 | *7190 | 4980 | *6040 | 3840 | *5250 | 3000 | *3460 | 2360 | | 4250 | 2120 | (47.3) |
| -3.0 m | kg | *8230 | 5990 | *5780 | 3920 | *4370 | 2830 | *3490 | 2140 | *2900 | 1660 | *2490 | 1310 | | | | 2030 | 1020 | 13.92 |
| -10.0 ft | lb | *18140 | 13210 | *12740 | 8640 | *9630 | 6240 | *7690 | 4720 | *6390 | 3660 | *5490 | 2890 | | | | 4480 | 2250 | (45.7) |
| -4.5 m | kg | *8310 | 5940 | *5950 | 3830 | *4540 | 2740 | *3630 | 2070 | *3000 | 1620 | 2510 | 1290 | | | | *2210 | 1140 | 13.20 |
| -15.0 ft | lb | *18320 | 13100 | *13120 | 8440 | *10010 | 6040 | *8000 | 4560 | *6610 | 3570 | 5530 | 2840 | | | | *4870 | 2510 | (43.3) |
| -6.0 m | kg | *8100 | 6010 | *5900 | 3840 | *4550 | 2730 | *3640 | 2060 | *2970 | 1620 | | | | | | *2340 | 1330 | 12.25 |
| -20.0 ft | lb | *17860 | 13250 | *13010 | 8470 | *10030 | 6020 | *8020 | 4540 | *6550 | 3570 | | | | | | *5160 | 2930 | (40.2) |
| -7.5 m | kg | *7580 | 6180 | *5610 | 3930 | *4350 | 2790 | *3460 | 2120 | *2740 | 1690 | | | | | | *2460 | 1670 | 10.97 |
| -25.0 ft | lb | *16710 | 13620 | *12370 | 8660 | *9590 | 6150 | *7630 | 4670 | *6040 | 3730 | | | | | | *5420 | 3680 | (36.0) |
| -9.0 m | kg | *6650 | 6460 | *4980 | 4110 | *3840 | 2940 | *2930 | 2260 | | | | | | | | | | |
| -30.0 ft | lb | *14660 | 14240 | *10980 | 9060 | *8470 | 6480 | *6460 | 4980 | | | | | | | | | | |
| -10.5 m | kg | *5040 | *5040 | *3730 | *3730 | | | | | | | | | | | | | | |
| -35.0 ft | lb | *11110 | *11110 | *8220 | *8220 | | | | | | | | | | | | | | |

- 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.

3) R210LC-9 HIGH WALKER













(1) 5.68 m (18' 8") boom, 2.0 m (6' 7") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

-  : 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 (25.0 ft) | | Capacity | | Reach |
| | |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 7.5 m (25 ft) | kg lb | | | | | | | | | *4010 *8840 | *4010 *8840 | 6.82 (22.4) |
| 6.0 m (20 ft) | kg lb | | | | | *4460 *9830 | *4460 *9830 | | | *4080 *8990 | 3800 8380 | 7.88 (25.9) |
| 4.5 m (15 ft) | kg lb | *8630 *19030 | *8630 *19030 | *5930 *13070 | *5930 *13070 | *4940 *10890 | *4940 *10890 | | | *4210 *9280 | 3260 7190 | 8.49 (27.9) |
| -3.0 m (-10 ft) | kg lb | | | *7690 *16950 | *7690 *16950 | *5720 *12610 | 5600 12350 | *4870 *10740 | 3890 8580 | 4310 9500 | 3030 6680 | 8.75 (28.7) |
| -1.5 m (-5 ft) | kg lb | | | *9130 *20130 | 8310 18320 | *6470 *14260 | 5350 11790 | *5220 *11510 | 3780 8330 | 4290 9460 | 3000 6610 | 8.71 (28.6) |
| Ground Line | kg lb | | | *9720 *21430 | 8100 17860 | *6950 *15320 | 5190 11440 | 5320 11730 | 3710 8180 | 4560 10050 | 3190 7030 | 8.36 (27.4) |
| -1.5 m (-5 ft) | kg lb | *13860 *30560 | *13860 *30560 | *9570 *21100 | 8090 17840 | *6960 *15340 | 5160 11380 | | | *4900 *10800 | 3700 8160 | 7.64 (25.1) |
| -3.0 m (-10 ft) | kg lb | *12230 *26960 | *12230 *26960 | *8650 *19070 | 8240 18170 | | | | | *4800 *10580 | *4800 *10580 | 6.42 (21.1) |

- 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) 5.68 m (18' 8") boom, 2.4 m (7' 10") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

| 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 lb | | | | | | | | | | | | | | *3700 *8160 | *3700 *8160 | 7.31 (24.0) |
| 6.0 m (20 ft) | kg lb | | | | | | | *4050 *8930 | *4050 *8930 | | | | | | *3790 *8360 | 3480 7670 | 8.30 (27.2) |
| 4.5 m (15 ft) | kg lb | | | | | *5360 *11820 | *5360 *11820 | *4580 *10100 | *4580 *10100 | *4260 *9390 | 4030 8880 | | | | *3920 *8640 | 3020 6660 | 8.87 (29.1) |
| 3.0 m (10 ft) | kg lb | | | | | *7130 *15720 | *7130 *15720 | *5390 *11880 | *5390 *11880 | *4610 *10160 | 3900 8600 | | | | 4010 8840 | 2810 6190 | 9.12 (29.9) |
| 1.5 m (5 ft) | kg lb | | | | | *8720 *19220 | 8370 18450 | *6220 *13710 | 5360 11820 | *5020 *11070 | 3770 8310 | | | | 3990 8800 | 2780 6130 | 9.08 (29.8) |
| Ground Line | kg lb | | | *9350 *20610 | *9350 *20610 | *9550 *21050 | 8080 17810 | *6790 *14970 | 5170 11400 | 5290 11660 | 3670 8090 | | | | 4210 9280 | 2940 6480 | 8.75 (28.7) |
| -1.5 m (-5 ft) | kg lb | *10290 *22690 | *10290 *22690 | *14180 *31260 | *14180 *31260 | *9620 *21210 | 8020 17680 | *6950 *15320 | 5100 11240 | | | | | | *4650 *10250 | 3360 7410 | 8.07 (26.5) |
| -3.0 m (-10 ft) | kg lb | *14760 *32540 | *14760 *32540 | *12990 *28640 | *12990 *28640 | *8950 *19730 | 8120 17900 | *6470 *14260 | 5170 11400 | | | | | | *4690 *10340 | 4350 9590 | 6.94 (22.8) |
| -4.5 m (-15 ft) | kg lb | | | *10150 *22380 | *10150 *22380 | *7020 *15480 | *7020 *15480 | | | | | | | | | | |

(3) 5.68 m (18' 8") boom, 2.92 m (9' 7") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

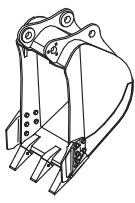
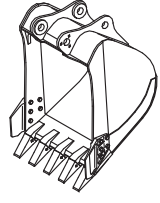
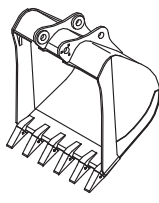
| Load point height | | Load radius | | | | | | | | | | At max. reach | | | | | |
|-------------------|----------|---|---|---|---|---|---|---|---|--|---|---|---|-----------------|----------------|----------------|----------------|
| | | 1.5 m (5 ft) | | 3.0 m (10 ft) | | 4.5 m (15 ft) | | 6.0 m (20 ft) | | 7.5 m (25 ft) | | Capacity | | Reach m (ft) | | | |
| | |  |  |  |  |  |  |  |  |  |  |  |  | | | | |
| 7.5 m (25 ft) | kg lb | | | | | | | | | | | | | | *3370 *7430 | *3370 *7430 | 7.93 (26.0) |
| 6.0 m (20 ft) | kg lb | | | | | | | | | *2700 *5950 | *2700 *5950 | | | | *3460 *7630 | 3130 6900 | 8.83 (29.0) |
| 4.5 m (15 ft) | kg lb | | | | | | | *4110 *9060 | *4110 *9060 | *3870 *8530 | *3870 *8530 | | | | *3600 *7940 | 2740 6040 | 9.37 (30.7) |
| 3.0 m (10 ft) | kg lb | | | *10440 *23020 | *10440 *23020 | *6400 *14110 | *6400 *14110 | *4960 *10930 | *4960 *10930 | *4290 *9460 | 3930 8660 | | | | 3680 8110 | 2560 5640 | 9.60 (31.5) |
| 1.5 m (5 ft) | kg lb | | | *8610 *18980 | *8610 *18980 | *8150 *17970 | *8150 *17970 | *5860 *12920 | 5380 11860 | *4760 *10490 | 3770 8310 | | | | 3650 8050 | 2530 5580 | 9.57 (31.4) |
| Ground Line | kg lb | | | *9870 *21760 | *9870 *21760 | *9260 *20410 | 8080 17810 | *6560 *14460 | 5150 11350 | *5150 *11350 | 3640 8020 | | | | 3820 8420 | 2650 5840 | 9.25 (30.3) |
| -1.5 m (-5 ft) | kg lb | *9210 *20300 | *9210 *20300 | *13090 *28860 | *13090 *28860 | *9600 *21160 | 7940 17500 | *6880 *15170 | 5040 11110 | 5200 11460 | 3590 7910 | | | | 4280 9440 | 2980 6570 | 8.62 (28.3) |
| -3.0 m (-10 ft) | kg lb | *12660 *27910 | *12660 *27910 | *13780 *30380 | *13780 *30380 | *9230 *20350 | 7990 17610 | *6670 *14700 | 5060 11160 | | | | | | *4470 *9850 | 3710 8180 | 7.59 (24.9) |
| -4.5 m (-15 ft) | kg lb | | | *11470 *25290 | *11470 *25290 | *7860 *17330 | *7860 *17330 | | | | | | | | *4250 *9370 | *4250 *9370 | 5.89 (19.3) |

(4) 5.68 m (18' 8") boom, 3.9 m (12' 10") arm equipped with 0.92 m³ (SAE heaped) bucket, 600 mm (24") triple grouser shoe.

| 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) | |
| 9.0 m (30 ft) | kg lb | | | | | | | | | | | | | | *2750 *6060 | *2750 *6060 | 7.86 (25.8) |
| 7.5 m (25 ft) | kg lb | | | | | | | | | *2220 *4890 | *2220 *4890 | | | *2810 *6190 | *2810 *6190 | 9.06 (29.7) | |
| 6.0 m (20 ft) | kg lb | | | | | | | | | *2850 *6280 | *2850 *6280 | | | *2910 *6420 | 2550 5620 | 9.85 (32.3) | |
| 4.5 m (15 ft) | kg lb | | | | | | | | | *3140 *6920 | *3140 *6920 | *2180 *4810 | *2180 *4810 | *3030 *6680 | 2270 5000 | 10.33 (33.9) | |
| 3.0 m (10 ft) | kg lb | | | | | | | *4060 *8950 | *4060 *8950 | *3620 *7980 | *3620 *7980 | *2990 *6590 | 2840 6260 | 3100 6830 | 2120 4670 | 10.54 (34.6) | |
| 1.5 m (5 ft) | kg lb | | | *11630 *25640 | *11630 *25640 | *6880 *15170 | *6880 *15170 | *5070 *11180 | *5070 *11180 | *4190 *9240 | 3770 8310 | *3490 *7690 | 2730 6020 | 3070 6770 | 2090 4610 | 10.50 (34.4) | |
| Ground Line | kg lb | *5540 *12210 | *5540 *12210 | *10590 *23350 | *10590 *23350 | *8400 *18520 | 8100 17860 | *5960 *13140 | 5130 11310 | *4710 *10380 | 3590 7910 | *3480 *7670 | 2640 5820 | 3180 7010 | 2160 4760 | 10.22 (33.5) | |
| -1.5 m (-5 ft) | kg lb | *7800 *17200 | *7800 *17200 | *11920 *26280 | *11920 *26280 | *9220 *20330 | 7800 17200 | *6540 *14420 | 4940 10890 | *5060 *11160 | 3480 7670 | | | 3480 7670 | 2370 5220 | 9.67 (31.7) | |
| -3.0 m (-10 ft) | kg lb | *10330 *22770 | *10330 *22770 | *14530 *32030 | *14530 *32030 | *9340 *20590 | 7730 17040 | *6690 *14750 | 4870 10740 | 5060 11160 | 3450 7610 | | | *3920 *8640 | 2820 6220 | 8.78 (28.8) | |
| -4.5 m (-15 ft) | kg lb | *13390 *29520 | *13390 *29520 | *13120 *28920 | *13120 *28920 | *8690 *19160 | 7840 17280 | *6230 *13730 | 4940 10890 | | | | | *4030 *8880 | 3800 8380 | 7.41 (24.3) | |
| -6.0 m (-20 ft) | kg lb | | | *10090 *22240 | *10090 *22240 | *6720 *14820 | *6720 *14820 | | | | | | | | | | |




6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET


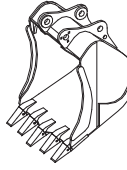
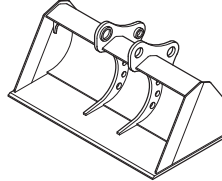
| | | |
|---|---|---|
|  |  |  |
| 0.51 m ³ SAE heaped bucket | ★0.52, 0.80, 0.92, 1.10, 1.20 m ³ SAE heaped bucket | 1.34 m ³ SAE heaped bucket |

| Capacity | | Width | | Weight | Recommendation | | | | |
|---|--|---------------------|--------------------|---------------------|----------------------|--------------------|--------------------|----------------------|----------------------|
| | | | | | 5.68 m (18' 8") boom | | | | 8.2 m (26' 11") boom |
| SAE heaped | CECE heaped | Without side cutter | With side cutter | | 2.0 m arm (6' 7") | 2.4 m arm (7' 10") | 2.92 m arm (9' 7") | 3.90 m arm (12' 10") | 6.3 m arm (20' 8") |
| 0.51 m ³ (0.67 yd ³) | 0.45 m ³ (0.59 yd ³) | 700 mm (27.6") | 820 mm (32.3") | 570 kg (1260 lb) | | | | | |
| ★0.52 m ³ (0.68 yd ³) | 0.45 m ³ (0.59 yd ³) | 935 mm (36.8") | 1035 mm (40.7") | 460 kg (1010 lb) | | | | | |
| 0.80 m ³ (1.05 yd ³) | 0.70 m ³ (0.92 yd ³) | 1000 mm (39.4") | 1120 mm (44.1") | 700 kg (1540 lb) | | | | | |
| 0.92 m ³ (1.20 yd ³) | 0.80 m ³ (1.05 yd ³) | 1150 mm (45.3") | 1270 mm (50.0") | 770 kg (1700 lb) | | | | | |
| 1.10 m ³ (1.44 yd ³) | 0.96 m ³ (1.26 yd ³) | 1320 mm (52.0") | 1440 mm (56.7") | 830 kg (1830 lb) | | | | | |
| 1.20 m ³ (1.57 yd ³) | 1.00 m ³ (1.31 yd ³) | 1400 mm (55.1") | 1520 mm (59.8") | 850 kg (1870 lb) | | | | | |
| 1.34 m ³ (1.75 yd ³) | 1.15 m ³ (1.50 yd ³) | 1550 mm (61.0") | 1670 mm (65.7") | 920 kg (2030 lb) | | | | | |

★ : Long reach 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) HEAVY DUTY, ROCK AND SLOPE FINISHING BUCKET

| | | |
|---|---|---|
|  |  |  |
| ◆ 0.74, 0.90, 1.05 m ³ SAE heaped bucket | ◎ 0.87, 1.20 m ³ SAE heaped bucket | ■ 0.75 m ³ SAE heaped bucket |

| Capacity | | Width | | Weight | Recommendation | | | |
|---|--|---------------------|------------------|----------------------|----------------------|--------------------|--------------------|----------------------|
| SAE heaped | CECE heaped | Without side cutter | With side cutter | | 5.68 m (18' 8") boom | | | |
| | | | | | 2.0 m arm (6' 7") | 2.4 m arm (7' 10") | 2.92 m arm (9' 7") | 3.90 m arm (12' 10") |
| ◆0.74 m ³ (0.97 yd ³) | 0.65 m ³ (0.85 yd ³) | 985 mm (38.8") | - | 770 kg (1700 lb) | | | | |
| ◆0.90 m ³ (1.18 yd ³) | 0.80 m ³ (1.05 yd ³) | 1070 mm (42.0") | - | 810 kg (1790 lb) | | | | |
| ◆1.05 m ³ (1.37 yd ³) | 0.92 m ³ (1.20 yd ³) | 1290 mm (50.8") | - | 890 kg (1960 lb) | | | | |
| ◎0.87 m ³ (1.14 yd ³) | 0.75 m ³ (0.98 yd ³) | 1140 mm (44.9") | - | 900 kg (1980 lb) | | | | |
| ◎1.20 m ³ (1.57 yd ³) | 1.00 m ³ (1.31 yd ³) | 1410 mm (55.5") | - | 1030 kg (2270 lb) | | | | |
| ■0.75 m ³ (0.98 yd ³) | 0.65 m ³ (0.85 yd ³) | 1790 mm (70.5") | - | 880 kg (1940 lb) | | | | |

◆ : Heavy duty bucket ◎ : Rock bucket (heavy) ■ : Slope finishing 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

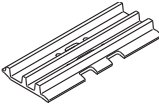
 Applicable for materials with density of 1100 kgf/m³ (1850 lbf/yd³) or less

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 | | | |
|-------------------------|------------------|---------------------------|--|---------------|----------------|----------------|
| | | |  | | | |
| R210LC-9 | Shoe width | mm (in) | 600 (24) | 700 (28) | 800 (32) | 900 (36) |
| | Operating weight | kg (lb) | 21900 (48280) | 22250 (49050) | 22515 (49640) | 22760 (50180) |
| | Ground pressure | kgf/cm ² (psi) | 0.46 (6.54) | 0.40 (5.69) | 0.36 (5.12) | 0.32 (4.55) |
| | Overall width | mm (ft-in) | 2990 (9' 10") | 3090 (10' 2") | 3190 (10' 6") | 3290 (10' 10") |
| R210LC-9 LONG REACH | Shoe width | mm (in) | - | - | 800 (32) | - |
| | Operating weight | kg (lb) | - | - | 24605 (54240) | - |
| | Ground pressure | kgf/cm ² (psi) | - | - | 0.39 (5.55) | - |
| | Overall width | mm (ft-in) | - | - | 3190 (10' 6") | - |
| R210LC-9 HIGH WALKER | Shoe width | mm (in) | 600 (24) | 700 (28) | 800 (32) | 710 (28)* |
| | Operating weight | kg (lb) | 23360 (51500) | 23710 (52270) | 23975 (52860) | 24220 (53400) |
| | Ground pressure | kgf/cm ² (psi) | 0.50 (7.11) | 0.43 (6.11) | 0.38 (5.40) | 0.43 (6.11) |
| | Overall width | mm (ft-in) | 3395 (11' 2") | 3495 (11' 6") | 3595 (11' 10") | 3505 (11' 6") |

* : Double grouser

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

| Item | Quantity |
|-----------------|----------|
| Carrier rollers | 2 EA |
| Track rollers | 9 EA |
| Track shoes | 49 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 |
|------------------------------------|---------------|----------|
| 600 mm triple grouser | Standard | A |
| 700 mm triple grouser | Option | B |
| 800 mm triple grouser | Option | C |
| 800 mm triple grouser (long reach) | Standard | C |
| 900 mm triple grouser | Option | C |

※ **Table 2**

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

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

| Item | Specification |
|-------------------------------------|--|
| Model | Cummins QSB6.7 / HYUNDAI HE 6.7 |
| Type | 4-cycle turbocharged diesel engine, low emission |
| 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 (4.2" × 4.9") |
| Piston displacement | 6700 cc (409cu in) |
| Compression ratio | 17.2 : 1 |
| Rated gross horse power (SAE J1995) | 151 Hp at 1900 rpm (113 kW at 1900 rpm) |
| Maximum torque at 1500 rpm | 63.0 kgf · m (456 lbf · ft) |
| Engine oil quantity | 24 l (6.3 U.S. gal) |
| Dry weight | 556 kg (1226 lb) |
| High idling speed | 1950 ± 50 rpm |
| Low idling speed | 850 ± 100 rpm |
| Rated fuel consumption | 163.2 g/Hp · hr at 1900 rpm |
| Starting motor | Nippon denso (24 V-4.5 kW) |
| Alternator | Delco Remy (24 V-70 A) |
| Battery | 2 × 12 V × 100 Ah |

2) MAIN PUMP

| Item | Specification |
|------------------|---|
| Type | Variable displacement tandem axis piston pumps |
| Capacity | 2 × 117cc/rev |
| Maximum pressure | 350kgf/cm ² (4980psi) [380 kgf/cm ² (5400 psi)] |
| Rated oil flow | 2 × 222 l /min (58.6U.S. gpm/ 48.8U.K. gpm) |
| Rated speed | 1900 rpm |

[] : Power boost

3) GEAR PUMP

| Item | Specification |
|------------------|---|
| Type | Fixed displacement gear pump single stage |
| Capacity | 15 cc/rev |
| Maximum pressure | 40 kgf/cm ² (570 psi) |
| Rated oil flow | 28.5 l/min (7.5 U.S. gpm/6.3 U.K. gpm) |

4) MAIN CONTROL VALVE

| Item | Specification | |
|----------------------------|---|------------------------------------|
| | R210LC-9 | R210LC-9 Long reach |
| Type | 9 spools two-block | |
| Operating method | Hydraulic pilot system | |
| Main relief valve pressure | 350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)] | |
| Port relief valve pressure | Boom | 400 kgf/cm ² (5690 psi) |
| | Arm | 400 kgf/cm ² (5690 psi) |
| | Bucket | 400 kgf/cm ² (5690 psi) |
| | | 280 kgf/cm ² (3980 psi) |

[]: Power boost

5) SWING MOTOR

| Item | Specification |
|------------------------|--|
| Type | Two fixed displacement axial piston motor |
| Capacity | 151 cc/rev |
| Relief pressure | 265 kgf/cm ² (3770 psi) |
| Braking system | Automatic, spring applied hydraulic released |
| Braking torque | 59 kgf · m (427 lbf · ft) |
| Brake release pressure | 33~50 kgf/cm ² (470~711 psi) |
| Reduction gear type | 2 - stage planetary |

6) TRAVEL MOTOR

| Item | Specification |
|------------------------|--|
| Type | Variable displacement axial piston motor |
| Relief pressure | 350 kgf/cm ² (4980 psi) |
| Reduction gear type | 2-stage planetary |
| Braking system | Automatic, spring applied hydraulic released |
| Brake release pressure | 11 kgf/cm ² (156 psi) |
| Braking torque | 49.3 kgf · m (357 lbf · ft) |

7) REMOTE CONTROL VALVE

| Item | | Specification |
|-------------------------|---------|----------------------------------|
| Type | | Pressure reducing type |
| Operating pressure | Minimum | 6.5 kgf/cm ² (92 psi) |
| | Maximum | 25 kgf/cm ² (356 psi) |
| Single operation stroke | Lever | 90 mm (3.5 in) |
| | Pedal | 130 mm (4.4 in) |

8) CYLINDER

| Item | | Specification |
|-----------------|-----------------------------|---|
| Boom cylinder | Bore dia × Rod dia × Stroke | ∅ 120 × ∅ 85 × 1290 mm |
| | Cushion | Extend only |
| Arm cylinder | Bore dia × Rod dia × Stroke | ∅ 140 × ∅ 100 × 1510 mm # ∅ 140 × ∅ 100 × 1460 mm |
| | Cushion | Extend and retract |
| Bucket cylinder | Bore dia × Rod dia × Stroke | ∅ 120 × ∅ 85 × 1055 mm # ∅ 100 × ∅ 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.

: LONG REACH

9) SHOE

| Item | | Width | Ground pressure | Link quantity | Overall width |
|-------------------------|----------|----------------|-------------------------------------|---------------|-------------------|
| R210LC-9 | Standard | 600 mm (24") | 0.46 kgf/cm ² (6.54 psi) | 49 | 2990 mm (9' 10") |
| | Option | 700 mm (28") | 0.40 kgf/cm ² (5.69 psi) | 49 | 3090 mm (10' 2") |
| | | 800 mm (32") | 0.36 kgf/cm ² (5.12 psi) | 49 | 3190 mm (10' 6") |
| | | 900 mm (36") | 0.32 kgf/cm ² (4.55 psi) | 49 | 3290 mm (10' 10") |
| R210LC-9 LONG REACH | Standard | 800 mm (32") | 0.39 kgf/cm ² (5.55 psi) | 49 | 3190 mm (10' 6") |
| R210LC-9 HIGH WALKER | Standard | 600 mm (24") | 0.50 kgf/cm ² (7.11 psi) | 49 | 3395 mm (11' 2") |
| | Option | 700 mm (28") | 0.43 kgf/cm ² (6.11 psi) | 49 | 3495 mm (11' 6") |
| | | 800 mm (32") | 0.38 kgf/cm ² (5.40 psi) | 49 | 3595 mm (11' 10") |
| | | ※ 710 mm (28") | 0.43 kgf/cm ² (6.11 psi) | 49 | 3505 mm (11' 6") |

※ : Double grouser

10) BUCKET

| Item | Capacity | | Tooth quantity | Width | |
|----------|--|---|----------------|---------------------|------------------|
| | SAE heaped | CECE heaped | | Without side cutter | With side cutter |
| R210LC-9 | 0.51 m ³ (0.67 yd ³) | 0.45 m ³ (0.59 yd ³) | 3 | 700 mm (27.6") | 820 mm (32.3") |
| | 0.80 m ³ (1.05 yd ³) | 0.70 m ³ (0.92 yd ³) | 5 | 1000 mm (39.4") | 1120 mm (44.1") |
| | 0.92 m ³ (1.20 yd ³) | 0.80 m ³ (1.05 yd ³) | 5 | 1150 mm (45.3") | 1270 mm (50.0") |
| | 1.10 m ³ (1.44 yd ³) | 0.96 m ³ (1.26 yd ³) | 5 | 1320 mm (52.0") | 1440 mm (56.7") |
| | 1.20 m ³ (1.57 yd ³) | 1.00 m ³ (1.31 yd ³) | 5 | 1400 mm (55.1") | 1520 mm (59.8") |
| | 1.34 m ³ (1.75 yd ³) | 1.15 m ³ (1.50 yd ³) | 6 | 1550 mm (61.0") | 1670 mm (65.7") |
| | ★0.52 m ³ (0.68 yd ³) | 0.45 m ³ (0.59 yd ³) | 5 | 935 mm (36.8") | 1035 mm (40.7") |
| | ◆0.74 m ³ (0.97 yd ³) | 0.65 m ³ (0.85 yd ³) | 5 | 985 mm (38.8") | - |
| | ◆0.90 m ³ (1.18 yd ³) | 0.80 m ³ (1.05 yd ³) | 5 | 1070 mm (42.0") | - |
| | ◆1.05 m ³ (1.37 yd ³) | 0.92 m ³ (1.20 yd ³) | 5 | 1290 mm (50.8") | - |
| | ⊙0.87 m ³ (1.14 yd ³) | 0.75 m ³ (0.98 yd ³) | 5 | 1140 mm (44.9") | - |
| | ⊙1.20 m ³ (1.57 yd ³) | 1.00 m ³ (1.31 yd ³) | 5 | 1410 mm (55.5") | - |
| | ■0.75 m ³ (0.98 yd ³) | 0.65 m ³ (0.85 yd ³) | - | 1790 mm (70.5") | - |

★ : Long reach bucket

◆ : Heavy duty bucket

⊙ : Rock bucket (heavy)

■ : Slope finishing 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 ℓ (U.S. gal) | Ambient temperature °C (°F) | | | | | | |
|------------------------------|--|--|---|--------------|-------------|-------------|-----------|------------|------------|
| | | | -50 (-58) | -30 (-22) | -20 (-4) | -10 (14) | 0 (32) | 10 (50) | 20 (68) |
| 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 | 5.0 (1.3) ^{★2} 6.2 (1.7) | ★SAE 75W-90 | | | | | | |
| Final drive | | 5.8 × 2 (1.5 × 2) | SAE 80W-90 | | | | | | |
| Hydraulic tank | Hydraulic oil | Tank; 160 (42) System; 275 (73) | ★ISO VG 15 | | | | | | |
| | | | ISO VG 32 | | | | | | |
| | | | ISO VG 46 | | | | | | |
| | | | ISO VG 68 | | | | | | |
| Fuel tank | Diesel fuel | 400 (106) | ★ASTM D975 NO.1 | | | | | | |
| | | | ASTM D975 NO.2 | | | | | | |
| Fitting (grease nipple) | Grease | As required | ★NLGI NO.1 | | | | | | |
| | | | NLGI NO.2 | | | | | | |
| Radiator (reservoir tank) | Mixture of antifreeze and soft water ^{★1} | 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

★² : Service when the grease inlet exists on the equipment

★¹ : Soft water
City water or distilled water

★ : Cold region
Russia, CIS, Mongolia